President's Welcome

It is my great pleasure to welcome you to California State University, San Bernardino, an institution committed to student success both in and out of the classroom. As a major metropolitan research university with approximately 19,000 students on two campuses in San Bernardino and Palm Desert, we are here to support the higher educational needs of the Inland Empire and the Coachella Valley.

Our university has a rich tradition of providing quality education in an environment that reflects the dynamic diversity of the region. Our outstanding faculty are award-winning scholars, highly recognized for their academic contributions and teaching. Our experienced staff are caring and courteous, dedicated to assisting with any questions or needs. Together, our faculty and staff foster a culture of excellence committed to empowering student success.

Our beautiful and spacious campuses offer a wonderful environment in which to learn. You will find CSUSB a welcoming and inclusive place with exceptional facilities and extensive resources that provide a world-class educational experience. Our students are drawn from all across the Inland Empire and the Coachella Valley. The vast majority are first-generation, that is, the first in their family to attend college. As an anchor institution, we are committed to building a vibrant future through access to higher education for all who come to study with us.

The university offers over 70 traditional baccalaureate and master's degree programs, education credential and certificate programs, and a doctorate program in educational leadership, all within five academic colleges: the College of Arts and Letters, the Jack H. Brown College of Business and Public Administration, the James R. Watson and Judy Rodriguez Watson College of Education, the College of Natural Sciences and the College of Social and Behavioral Sciences. With extensive augmented learning opportunities such as internships, research and travel abroad, I am certain CSUSB has a degree program that is right for you.

I am immensely proud that CSUSB continues to appear in social mobility rankings with noted national publications. The rankings benchmark four-year U.S. colleges and universities according to how effectively they enroll students from low-income backgrounds and graduate them into good-paying jobs. Also, Excelencia in Education, which is "committed to Ensuring America's Future by increasing Latino college completion," has awarded CSUSB the Seal of Excelencia for 2024-2027 (https://www.edexcelencia.org/seal-excelencia/seal-excelencia-certified-institutions/). *Washington Monthly* lists CSUSB as No. 10 in the West in the Best Bang for the Buck (https://www.csusb.edu/inside/article/591332/washington-monthly-names-csusb-one-its-top-hispanic-serving-universities/) category. In the Best Value-National Universities listing (https://www.usnews.com/best-colleges/rankings/national-universities/best-value/?myCollege=national-universities&_sort=myCollege&_sortDirection=asc) for *US News and World Report*, CSUSB was ranked No. 45, making it the highest-ranked California public university. These rankings demonstrate that affordability does not cancel quality.

These are exciting times at Cal State San Bernardino. Our new Performing Arts Center on the San Bernardino campus is set to open later in the 2025-26 academic year. Once completed, the Center will include a 500-seat theatre as well as a renovation of existing rehearsal and teaching spaces and will be the premier performing arts facility for our community and bi-county region.

Out in Palm Desert, we have broken ground to construct a new Student Services Building! This facility will be designed for maximal flexibility as the PDC continues to grow.

All this and more demonstrates how, at CSUSB, **We Define the Future**.

Further information about CSUSB can be found online at www.csusb.edu (http://www.csusb.edu/) . We offer campus visits, either virtually or onsite. To sign up for an in-person campus tour, visit: https://www.csusb.edu/visit-csusb (https://www.csusb.edu/visit-csusb/).

I hope you will look closely at all we have to offer and reach out to connect with our faculty, staff and students. I assure you it will be time well spent.

Sincerely,

Tomás D. Morales, Ph.D.
President

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Under Construction

California State University San Bernardino

Welcome to the 2026-27 Academic Catalog for California State University San Bernardino.

Although every effort has been made to assure the accuracy of the information, students and others should note that laws, rules, policies, programs, and courses change from time to time and that these changes may alter the information contained in the 2026-27 Catalog. Review Changes of Rules and Policies (p. 11) for more information.

About the Catalog

This catalog represents the university's course descriptions and requirements at the undergraduate and graduate levels. California State University, San Bernardino reserves the right to revise catalog provisions in accordance with the official actions of the Board of Trustees of the California State University and other governing bodies. Students are advised to consult the appropriate department, college, or office for current information on specific programs. Additional information is available in the Changes in Rules and Policies statement. The Class Schedule (http://academicscheduling.csusb.edu/), issued prior to each term, lists courses to be offered during that term.

Inquiries about admission to the university should be directed to:

Director of Admissions and Student Recruitment (https://admissions.csusb.edu)
California State University, San Bernardino
5500 University Parkway
San Bernardino, CA 92407-2397
(909) 537-5188

Changes of Rules and Policies

Although every effort has been made to assure the accuracy of the information in this catalog, students and others who use this catalog should note that laws, rules, and policies change from time to time and that these changes may alter the information contained in this publication.

Changes may come in the form of statutes enacted by the Legislature, rules and policies adopted by the Board of Trustees of the California State University, by the chancellor or designees of the California State University, or by the president or designees of the university. It is not possible in a publication of this size to include all of the rules, policies and other information that pertain to students, the institution, and the California State University. More current or complete information may be obtained from the appropriate department, school, or administrative office.

Nothing in this catalog shall be construed as, operate as, or have the effect of an abridgment or a limitation of any rights, powers, or privileges of the Board of Trustees of the California State University, the chancellor of the California State University, or the president of the university. The trustees, the chancellor, and the president are authorized by law to adopt, amend, or repeal rules and policies that apply to students. This catalog does not constitute a contract or the terms and conditions of a contract between the student and the university or the California State University. The relationship of students to the university and the California State University is one governed by statute, rules, and policy adopted by the legislature, the trustees, the chancellor, the presidents and their duly authorized designees. Additionally, the California State University may, immediately and without notice, modify, alter, adjust or amend any rule, policy, activity or item contained in this catalog if a *force majeure* event occurs. *Force Majeure* events include, but are not limited to, (a) acts of God; (b) flood, fire, earthquake or explosion; (c) terrorist threats or acts, riot or other civil unrest; (d) government orders or laws; (e) judicial orders or rulings; (f) national or regional emergencies; (g) strikes, labor stoppages or slowdowns; (h) epidemic, pandemic or health outbreaks which may cause serious illness; (i) power or transportation disruptions; and (j) other similar occurrences beyond the reasonable control of the California State University.

Catalog

Vol. 62, No. 2, May 2026

Please note: in the Print Options (in the right navigation of the online catalog) the Download PDF of the entire Catalog will be the Vol. 62, No. 2, May 2026 version. For current and updated information please use the Send Page to Printer. The PDF will include all information unique to the page.

California State University, San Bernardino is accredited by:
Western Association of Schools and Colleges
985 Atlantic Avenue, Suite 100
Alameda, CA 94501
(510) 748-9001

The CSU System

The California State University (CSU) is the nation's largest and most diverse four-year public university. With 22* unique universities, the CSU serves more than 450,000 students and employs more than 61,000 faculty and staff.

Each year, the university awards nearly 123,000 degrees, changing the trajectory of students' lives by opening doors to opportunities for upward mobility. More than one-quarter of CSU students are the first in their families to attend college and more than half of CSU students are from traditionally underrepresented backgrounds.

For one of the most affordable tuitions in the country, students learn from world-class faculty, gain valuable hands-on experiences, and receive strong career advising, empowering them to become leaders in the changing workforce.

CSU graduates are leaders in the industries that drive California's economy, including business, agriculture, entertainment, engineering, teaching, hospitality, and health care. To learn more, visit the California State University website (https://www.calstate.edu/).

A Tradition of Excellence for More than Six Decades

Since 1961, the CSU has provided an affordable, accessible, and high-quality education to millions of Californians. While each university is unique based on its curricular specialties, location and culture, every CSU is distinguished for the quality of its educational programs. All CSUs are fully accredited, provide an outstanding, broad liberal educational program and offer opportunities for students to engage in university life through the Associated Students, Inc., clubs, and service learning.

Facts

- Today, one in every 20 Americans with a college degree is a CSU graduate.
- 1 in every 10 employees in California is a CSU graduate.
- The CSU's network of more than 4 million alumni is larger than the population of 23 U.S. states.
- The CSU awards nearly half of the bachelor's degrees earned in California.
- The CSU awards more than one-quarter of California's baccalaureate nursing degrees.
- In 2024-25, the CSU prepared more of California's teachers than any other institution in the state.
- About 4% of the nation's teachers graduate from the CSU.
- In 2024-25, CSU students earned nearly 18,000 undergraduate business degrees and over 6,300 engineering degrees.
- The CSU offers more than 4,000 degree programs that align with the state's workforce demands.
- The CSU's online concurrent enrollment program gives students the ability to enroll in courses offered by other universities in the CSU system.
- Through CSU community engagement centers, 67,000 students participated in service-learning, contributing more than 1.5 million hours of service each year.

* *Transition to 22 universities in progress (Cal Poly San Luis Obispo and Cal Maritime integrating)— official fall 2026.*

Governance

The CSU is governed by the Board of Trustees, most of whom are appointed by the governor and serve with faculty and student representatives. The CSU chancellor is the chief executive officer, reporting to the board. The presidents serve as the university-level chief executive officers. The trustees, chancellor and presidents develop university-wide educational policy. The presidents, in consultation with the CSU Academic Senate and other university stakeholder groups, render and implement local policy decisions.

CSU Historical Milestones

The individual California State Colleges were established as a system with a Board of Trustees and a chancellor in 1960 by the Donahoe Higher Education Act. In 1972, the system was designated as the California State University and Colleges, and in 1982 the system became the California State University (CSU). Today, the CSU is comprised of 22 member universities, including comprehensive and polytechnic universities. The oldest university—San José State University—was founded in 1857 and became the first institution of public higher education in California. The newest — California State University Channel Islands — opened in fall 2002, with freshmen arriving in fall 2003. And in 2022, the CSU in Humboldt became California State Polytechnic University, Humboldt, joining San Luis Obispo and Pomona as the state's third public polytechnic university.

In 1963, the CSU's Academic Senate was established to act as the official voice of CSU faculty in university-wide matters. Also, the California State College Student Presidents Association — which was later renamed the California State Student Association (CSSA), was founded to represent each university student association on issues affecting students.

Through its many decades of service, the CSU has continued to adapt to address societal changes, student needs and workforce trends. While the CSU's core mission has always focused on providing high-quality, affordable bachelor's and master's degree programs, over time the university has added a wide range of services and programs to support student success — from adding health centers and special programs for veterans to building student residential facilities to provide a comprehensive educational experience.

In 2010, in an effort to accommodate community college transfer students, the CSU, in concert with the California Community Colleges (CCC), launched the Associate Degree for Transfer (ADT), which guarantees CCC transfer students with an ADT admission to the CSU with junior status. The ADT has since proven to be one of the most effective paths to a CSU for community college transfer students. In 2023, the CSU launched the Transfer Success Pathway program to guarantee future CSU admission to high school graduates who are entering a California community college and who commit to transferring within three years.

Always adapting to changes in technology to support student learning and degree completion, the CSU launched CSU Fully Online, which enables CSU students to complete online courses at other CSUs, expanding enrollment opportunities and providing more educational opportunities for students who may prefer an online format to a traditional classroom setting.

The CSU marked a significant educational milestone when it broadened its degree offerings to include professional doctoral degrees. The CSU independently offers Doctor of Education (Ed.D.), Doctor of Physical Therapy (DPT), Doctor of Audiology (AuD), Doctor of Nursing Practice (DNP), Doctor of Occupational Therapy (OTD) and Doctor of Public Health (DrPH) degree programs. A limited number of other doctoral degrees are offered jointly with the University of California and private institutions in California.

The CSU strives to continually develop innovative programs, services and opportunities that will give students the tools they need to meet their full potential. In 2025, the CSU shared a new systemwide strategic plan, CSU Forward: Thriving Students, Thriving University, Thriving California, the system's most comprehensive and ambitious strategic plan to transform how the CSU defines student success and fulfills its role as California's most powerful engine of opportunity, economic mobility and inclusive excellence. The strategic plan centers on four performance objectives: economic mobility engine, sustainable affordability, employer of choice and statewide impact.

With the conclusion of the 10-year Graduation Initiative 2025 and the Year of Engagement project, the CSU unveiled a new Student Success Framework to meet the needs of today's students and achieve new heights of student success. As a companion to CSU Forward, the framework aims to improve opportunity outcome gaps, strengthen career readiness and advance social mobility for all CSU students. By providing an accessible, hands-on education that prepares graduates for career success, the CSU has created a network of alumni so extensive and renowned that it spans across the globe. More than 4 million CSU alumni are making a difference in the lives of the people of California and the world.

Office of the Chancellor

- The California State University 401 Golden Shore Long Beach, California 90802-4210 (562) 951-4000
  - Dr. Mildred García-Chancellor
  - Ms. Dawn S. Theodora–Interim Executive Vice Chancellor and General Counsel
  - Mr. Patrick J. Lenz–Interim Executive Vice Chancellor and Chief Financial Officer
  - Mr. Dave Grant--Interim Vice Chancellor Human Resources and Chief HR Officer
  - Mr. Vlad Marinescu–Vice Chancellor and Chief Audit Officer
  - Mr. Greg Saks–Vice Chancellor, External Relations and Communications
  - Dr. Junius J. Gonzales--Vice Chancellor, Academic Affairs and Chief Academic Officer
  - Dr. Dilcie D. Perez–Vice Chancellor, Strategic Enrollment Management and Student Success
  - Ms. Danielle Garcia–Deputy Vice Chancellor for System Strategy & Operations

The California State University System

California State University, Bakersfield
9001 Stockdale Highway
Bakersfield, CA 93311-1022
Dr. Vernon B. Harper, Jr., President
(661) 654-2782 CSU Bakersfield website (http://www.csub.edu)

California State University, Channel Islands
One University Drive
Camarillo, CA 93012
Dr. Susan A. Andrzejewski, Interim President
(805) 437-8400 CSU Channel Islands website (http://www.csuci.edu)

California State University, Chico
400 West First Street
Chico, CA 95929
Dr. Stephen Perez, President
(310) 898-4636 Chico State website (http://www.csuchico.edu)

California State University, Dominguez Hills
1000 East Victoria Street
Carson, CA 90747
Dr. Mary Ann Villarreal, Interim President
(530) 243-3696 CSU Dominguez Hills website (http://www.csudh.edu)

California State University, East Bay
25800 Carlos Bee Boulevard
Hayward, CA 94542
Dr. Cathy A. Sandeen, President
(510) 885-3000 Cal State East Bay website (http://www.csueastbay.edu)

California State University, Fresno
5241 North Maple Avenue
Fresno, CA 93740
Dr. Saúl Jiménez-Sandoval*, President
(559) 278-4240 CSU Fresno website (http://www.csufresno.edu)

California State University, Fullerton
800 N. State College Boulevard
Fullerton, CA 92831-3599
Dr. Ronald S. Rochon, President
(657) 278-2011 CSU Fullerton website (http://www.fullerton.edu)

California State Polytechnic University, Humboldt
1 Harpst St.
Arcata, CA 95521-4957
Dr. Richard A. Carvajal, President
(707) 826-3011 Humboldt State website (http://www.humboldt.edu)

California State University, Long Beach
1250 Bellflower Boulevard
Long Beach, CA 90840-0115
Dr. Loren J. Blanchard, President
(562) 985-4111 Cal State Long Beach website (http://www.csulb.edu)

California State University, Los Angeles
5151 State University Drive
Los Angeles, CA 90032
Dr. Berenecea Johnson Eanes, President
(323) 343-3000 Cal State LA website (http://www.calstatela.edu)

California State University, Monterey Bay
100 Campus Center
Seaside, CA 93955-8001
(Vacant), President
(831) 582-3330 CSU Monterey Bay website (http://www.csumb.edu)

California State University, Northridge
18111 Nordhoff Street
Northridge, CA 91330
Dr. Ericka D. Beck, President
(818) 677-1200 CSUN website (http://www.csun.edu)

California State Polytechnic University, Pomona
3801 West Temple Avenue
Pomona, CA 91768
Dr. Vanya Quiñones, President
(909) 869-7659 Cal Poly Pomona website (http://www.cpp.edu)

California State University, Sacramento
6000 J Street
Sacramento, CA 95819
Dr. Luke Wood, President
(916) 278-6011 Sacramento State website (http://www.csus.edu)

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5500 University Parkway
San Bernardino, CA 92407-2393
Dr. Tomás D. Morales, President
(909) 537-5000 Cal State San Bernardino website (http://www.csusb.edu)

San Diego State University
5500 Campanile Drive
San Diego, CA 92182
Dr. Adela de la Torre, President
(619) 594-5200 San Diego State website (http://www.sdsu.edu)

San Francisco State University
1600 Holloway Avenue
San Francisco, CA 94132
Dr. Lynn Mahoney, President
(415) 338-1111 San Francisco State website (http://www.sfsu.edu)

San José State University
One Washington Square
San Jose, CA 95192-0001
Dr. Cynthia Teniente-Matson, President
(408) 924-1000 San José State website (http://www.sjsu.edu)

California Polytechnic State University, San Luis Obispo
One Grand Avenue
San Luis Obispo, CA 93407
Dr. Jeffrey D. Armstrong, President
(805) 756-1111 Cal Poly San Luis Obispo website (http://www.calpoly.edu)

California State University, San Marcos
333 South Twin Oaks Valley Road
San Marcos, CA 92096-0001
Dr. Ellen J. Neufeldt, President
(760) 750-4000 CSU San Marcos website (http://www.csusm.edu)

Sonoma State University
1801 East Cotati Avenue
Rohnert Park, CA 94928-3609
Dr. Michael E. Spagna, President
(707) 664-2880 Sonoma State website (http://www.sonoma.edu)

California State University, Stanislaus
One University Circle
Turlock, CA 95382
Dr. Britt Rios-Ellis, President
(209) 667-3122 Stanislaus State website (http://www.csustan.edu)

International Programs

CSUSB Center for International Studies and Programs website (http://international.csusb.edu/Default.aspx)

Developing intercultural communication skills and international understanding among its students is a vital mission of the California State University (CSU). Since its inception in 1963, the CSU International Programs, a systemwide department operating from within the CSU Chancellor's Office in Long Beach, California, has contributed to this effort by providing qualified students an affordable opportunity to continue their studies abroad. More than 24,000 CSU students have taken advantage of this unique study option. In addition, CSU International Programs has student exchange agreements with institutions worldwide. California welcomes our international exchange students and values our reciprocal partnerships with top universities around the world.

International Programs participants earn resident academic credit at their CSU campuses while they pursue full-time, yearlong, semester or short term summer program of study at a host university or special study center abroad. The International Programs serves the needs of students in over 100 designated academic majors. Affiliated with more than 70 recognized universities and institutions of higher education in 16 countries, the International Programs also offers a wide selection of study locales and learning environments.

Students pay the same tuition to study abroad as they would at their home campus. CSU IP participants are responsible for all personal costs, such as transportation, room and board, living expenses, and home campus fees. Financial aid, with the exception of Federal Work-Study, is available to qualified students.

California Community Colleges transfer students are eligible to apply directly from their community colleges. Students must also possess a current cumulative grade point average of 2.75 or 3.0, depending on the program for which they apply. Some programs also have language study and/or other coursework prerequisites.

Students can begin to explore study abroad programs, requirements and eligibility on the study abroad (https://csuip.calstate.edu/?FuseAction=Programs.MapSearch) brochure pages (https://csuip.calstate.edu/?FuseAction=Programs.MapSearch) of this site. Incoming exchange students can begin by reviewing the list of CSU (https://csuip.calstate.edu/?FuseAction=Abroad.ViewLink&Parent_ID=01E879DA-5056-BA1F-7216FE7D6C361227&Link_ID=84F864E3-5056-BA1F-741F75749A19992D) IP (https://csuip.calstate.edu/?FuseAction=Abroad.ViewLink&Parent_ID=01E879DA-5056-BA1F-7216FE7D6C361227&Link_ID=84F864E3-5056-BA1F-741F75749A19992D)exchange partners (https://csuip.calstate.edu/?FuseAction=Abroad.ViewLink&Parent_ID=01E879DA-5056-BA1F-7216FE7D6C361227&Link_ID=84F864E3-5056-BA1F-741F75749A19992D) to ensure their home university is on the list. If it is, students should contact the exchange coordinator at their home institution to understand the selection and admissions processes; if it is not, students are welcome to apply to the California State University as an international student (https://www2.calstate.edu/apply/international/).

- **Australia -** Griffith University, Macquarie University, Queensland University of Technology, University of Queensland, Western Sydney University
- **Chile** - Pontificia Universidad Católica de Chile
- **China** - Peking University (Beijing)
- **France** -
  - Aix-Marseille Université CY Cergy Paris Université
  - École Normale Supérieure Paris-Saclay (ENS)
  - ESSCA, Aix-en-Provence Campus (effective Spring 2024) Institut Catholique de Paris
  - Institut Polytechniques des Sciences Avancées (IPSA) Institut Supérieur d'Electronique de Paris (ISEP) Science Politiques Saint-Germain-En-Laye
  - Sorbonne Université
  - Université d'Evry Val-d'Essonne (UEVE)
  - Université de Versailles Saint-Quentin-en-Yvelines (UVSQ) Université Paris Cité
  - Université Gustave Eiffel Université Panthéon-Assas
  - Université Paris 1 Panthéon-Sorbonne Université Paris 8 - Vincennes-Saint-Denis Université Paris Nanterre
  - Université Paris-Est Créteil Val-de-Marne (UPEC) Université Paris-Saclay
  - Université Sorbonne Nouvelle (formerly Paris 3)
  - Université Sorbonne Paris Nord
- **Germany** -
  - Hochschule Biberach
  - Hochschule der Medien Stuttgart
  - Hochschule für Forstwirtschaft Rottenburg
  - Hochschule Furtwangen

- Hochschule Konstanz Hochschule Mannheim
- Hochschule für Wirtschaft und Umwelt Nürtingen-Geislingen
- Hochschule Reutlingen
- Hochschule Ravensburg-Weingarten
- Hochschule Ulm
- Karlsruher Institut für Technologie
- Pädagogische Hochschule Freiburg
- Pädagogische Hochschule Ludwigsburg
- Staatliche Hochschule für Musik Trossingen
- Staatliche Akademie der Bildenden Künste Stuttgart
- Universität Freiburg
- Universität Heidelberg
- Universität Hohenheim
- Universität Konstanz
- Universität Mannheim
- Universität Stuttgart
- Universität Tübingen
- Universität Ulm

- **Ghana** - University of Ghana
- **Italy** - Accademia di Belle Arti di Firenze, CSU Florence center
- **Japan** - Waseda University
- **Mexico** - Instituto Tecnológico y de Estudios Superiores de Monterrey, Campus Querétaro
- **South Africa** - Nelson Mandela University
- **South Korea** Yonsei University, Korea University
- **Spain**
  - Universidad Complutense de Madrid
  - Universidad de Granada
- **Sweden** - Uppsala University
- **Taiwan** - National Taiwan University
- **United Kingdom** - University of Bradford, University of Bristol, University of Hull, Kingston University, Swansea University, University of Birmingham

Students participating in CSU IP pay CSU tuition and program fees, and are responsible for airfare, accommodations, meals, and other personal expenses. Financial aid, with the exception of Federal Work-Study, is available to qualified students and limited scholarship opportunities are also available. All programs require students to maintain good academic and disciplinary standing, many programs are open to sophomores or graduate students. California Community College transfer students are eligible to apply (to select programs) directly from their community colleges. Students must possess a current cumulative grade point average of 2.75 or 3.0, depending on the program, and must fulfill all coursework prerequisites. Additional program information and application instructions can be found on the International Programs website (https://csuip.calstate.edu/).

Trustees of the CSU

Ex Officio Trustees

- The Honorable Gavin Newsom,-Governor of California
- The Honorable Eleni Kounalakis,-Lieutenant Governor of California
- The Honorable Robert Rivas,-Speaker of the Assembly
- The Honorable Tony K. Thurmond,-State Superintendent of Public Instruction
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- Jack B. Clarke Jr.–Chair
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- Dawn S. Theodora–Interim Secretary
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Appointed Trustees

Appointments are for a term of eight years, except student, alumni, and faculty trustees whose terms are for two years. Terms expire in the year in parentheses. Names are listed alphabetically.

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Correspondence with trustees should be sent to: c/o Office of the Board of Trustees, The California State University, 401 Golden Shore, Long Beach, California 90802-4210 or trusteesoffice@calstate.edu. (trusteesoffice@calstate.edu)

Programs Leading to Licensure and Credentialing

Admission into programs leading to licensure and credentialing does not guarantee that students will obtain a license or credential. Licensure and credentialing requirements are set by agencies that are not controlled by or affiliated with the CSU and requirements can change at any time. For example, licensure or credentialing requirements can include evidence of the right to work in the United States (e.g., social security number or taxpayer identification number) or successfully passing a criminal background check. Students are responsible for determining whether they can meet licensure or credentialing requirements. The CSU will not refund tuition, fees or any associated costs to students who determine subsequent to admission that they cannot meet licensure or credentialing requirements. Information concerning licensure and credentialing requirements is available from Credential Processing, CE-221, (909) 537-5600.

The California State University has not determined whether its programs meet other states' educational or professional requirements for licensure and certification. Students enrolled in a California State University program who are planning to pursue licensure or certification in other states are responsible for determining whether they will meet their state's requirements for licensure or certification. This disclosure is made pursuant to 34 CFR §668.43(a)(5)(v)(c).

Career Placement

The Career Development Center (https://www.csusb.edu/career-center/) may furnish, upon request, information about the employment of students who graduate from programs or courses of study preparing students for a particular career field. Data provided must be in a form that does not allow for the identification of any individual student. This information includes data concerning the average starting salary and the percentage of previously enrolled students who obtained employment.

The information may include data collected from graduates of the university or graduates of all universities in the California State University system.

Campus Safety Report

California State University, San Bernardino publishes a "Campus Safety Report" each September 1st in compliance with federal law. The report contains information on campus safety services, policies, procedures and recent crime statistics. This report is available through the university main web page index listing "Campus Safety Report" and copies may be obtained from the Department of Public Safety.

Average Support Cost Per Full-Time Equivalent Student and Sources of Funds

The total support cost per full-time equivalent student (FTES) includes the expenditures for current operations, including payments made to students in the form of financial aid, and all fully reimbursed programs contained in state appropriations. The average support cost is determined by dividing the total cost by the number of FTES. The total CSU 2025-26 budget amounts were $4,957,363,000 from state General Fund (GF) appropriations, $2,778,751,000, from gross tuition revenue, and $752,697,000 from other fee revenues for a total of $8,488,811,000. The 2025-26 resident FTES target is 90,598 and the nonresident FTES based on past-year actual is 21,242 for a total of 411,840 FTES. The GF appropriation is applicable to resident students only whereas fee revenues are collected from resident and nonresident students. FTES is derived by dividing the total student credit units attempted by a fixed amount depending on academic level (e.g., 30 for a semester university and 45 for a quarter university, the figures that define a full-time undergraduate or postbaccalaureate student's academic load).

	Amount	Average Cost per FTES	Percentage
State Appropriation (GF)1	$4,957,363,000	$12,692	58.4%
Gross Tuition Revenue 2	$2,778,751,000	$6,747	32.7%
Other Fee Revenue 2	$752,697,000	$1,828	8.9%
Total Support Cost	*$8,488,811,000*	*$21,267*	**100%**

[1] *Represents state GF appropriation in the Budget Act of 2025-26; GF is divisible by resident students only (390,598 FTES).*

[2] *Represents CSU Operating Fund, gross tuition and other fees revenue amounts from the 2025-26 Final Budget Allocations memo . Revenues are divisible by resident and nonresident students (411,840 FTES).*

The 2025-26 average support cost per FTES based on GF appropriation and tuition fee revenue only is $19,439 and is $21,267, with all fee revenue (e.g., tuition fees, application fees, and campus mandatory fees) in the CSU Operating Fund. Of this amount, the average tuition and other fee revenue per FTES is $8,575.

The average CSU 2025-26 academic year, resident, undergraduate student basic tuition and other mandatory fees required to apply to, enroll in, or attend the university is $8,644 ($6,450 tuition fee plus $2,194 average campus-based fees). However, the costs paid by individual students will vary depending on the university, program, and whether a student is part-time, full-time, resident, or nonresident.

Procedure for the Establishment or Abolishment of Campus-Based Mandatory Fees

The law governing the California State University provides that specific campus fees defined as mandatory, such as a *student body association fee* and a *student body center fee*, may be established. A *student body association fee* must be established upon a favorable vote of two-thirds of the students voting in an election held for this purpose (Education Code, Section 89300). The university president may adjust the *student body association fee* only after the fee adjustment has been approved by a majority of students voting in a referendum established for that purpose. The required fee shall be subject to referendum at any time upon the presentation of a petition to the university president containing the signatures of 10 percent of the regularly enrolled students at the university. *Student body association fees* support a variety of cultural and recreational programs, childcare centers, and special student support programs. A *student body center fee* must be established upon a favorable vote of two-thirds of the students voting in an election held for this purpose (Education Code, Section 89304). Once bonds are issued, authority to set and adjust *student body center fees* is governed by provisions of the State University Revenue Bond Act of 1947, including, but not limited to, Education Code sections 90012, 90027, and 90068. A *student success fee* may be established or adjusted only after the university undertakes a rigorous consultation process and a fee referendum is held with a simple majority favorable vote (Education Code, Section 89712). The *student success fee* may be rescinded by a majority vote of the students only after six years have elapsed following the vote to implement the fee.

The process to establish and adjust other campus-based mandatory fees requires consideration by the campus fee advisory committee and a consultation or student referendum process as established by California State University Student Tuition and Fee Policy (https://calstate.policystat.com/policy/16681992/latest/) , Sections III & IV (or any successor policy). The university president may use consultation mechanisms if they determine that a referendum is not the best mechanism to achieve appropriate and meaningful consultation, and referendum is not required by the Education Code or Student Success Fee policy. Results of the referendum and the fee committee review are advisory to the university president. The president may adjust campus-based mandatory fees but must request the chancellor to establish a new mandatory fee. The president shall provide to the campus fee advisory committee a report of all campus-based mandatory fees. The university shall report annually to the chancellor a complete inventory of all campus-based mandatory fees.

For more information or questions, please contact the System Budget Office in the CSU Chancellor's Office at csubudgetoffice@calstate.

(csubudgetofice@calstate.edu)edu (csubudgetofice@calstate.edu) or (562) 951-4560.

Student Complaint Procedure (Complaints Regarding the CSU)

The California State University (CSU) takes very seriously complaints and concerns regarding the institution. If you have a complaint regarding the CSU, you may present your complaint as follows:

1. If your complaint concerns CSU's compliance with academic program quality and accrediting standards, you may present your complaint on the Western Association of Schools and Colleges (WASC) website (http://www.wascsenior.org/comments/). WASC is the agency that accredits the CSU's academic program.
2. If your complaint concerns an alleged violation by CSU of any law that prohibits discrimination, harassment or retaliation based on a protected status, including age, disability (physical and mental, gender, gender identity (including non-binary or trans-gender), gender expression, genetic information, marital status, medical condition, nationality, pregnancy or related conditions, race or ethnicity (including color, caste, or ancestry, religion or religious creed, sex (including sex stereotyping or sex characteristics), sexual orientation, and veteran or military status, you may present your complaint as described in Section XVI (Interim Nondiscrimination Policy).
3. If your complaint concerns an alleged violation by the CSU of other state law, including laws prohibiting fraud and false advertising, you may present your claim complaint to the university president or designee: Tómas Morales, President, president@csusb.edu. See the Student/Applicant Complaint Procedure for Alleged Violations of State Law Not Covered by Another CSU Complaint (https://calstate.policystat.com/policy/11218423/latest/)Procedure (https://calstate.policystat.com/policy/11218423/latest/) for details regarding the complaint requirements and complaint process.
4. Other complaints regarding the CSU may be presented to the university dean of students [or other appropriate administrator], who will provide guidance on the appropriate university process for addressing your particular issue.

If you believe that your complaint warrants further attention after you have exhausted all the steps outlined by the university, or by WASC, you may file an appeal with the Assistant Vice Chancellor, Academic and Student Affairs (or designee) at the CSU Chancellor's Office.

This procedure should not be construed to limit any right that you may have to take legal action to resolve your complaint.

About the University

California State University, San Bernardino

Cal State San Bernardino is part of the California State University system, the largest and most diverse system of public higher education in the country. The CSU's 22 campuses plus its off-campus centers serve more than 460,000 students, extending from Humboldt State in Arcata in the north to San Diego State in the south, as well as employing more than 63,000 faculty and staff to serve those students' needs.

The CSU system is the nation's largest four-year public university, providing opportunities for upward mobility to diverse students across the state and empowering them to become leaders in the changing workforce. The CSU plays a critical role in providing future leaders with the skills and knowledge they'll need to thrive in the workforce and help drive California's economy. More than 4,000 degree programs are available, aligning with workforce demands. The CSU is the state's greatest producer of bachelor's degrees—awarding just under 104,000 in 2023-24, 83% of the total degrees awarded by the system—and drives California's economy in agriculture, information technology, business, hospitality, life sciences, healthcare, public administration, education, media and entertainment.

The individual California State Colleges were brought together as a system by the Donahoe Higher Education Act of 1960. In 1972, the system became the California State University and Colleges, and in 1982, it became the California State University. Today, the campuses of the CSU include comprehensive and polytechnic universities. Since 1960, the CSU has graduated 4.3 million individuals.

The oldest campus—San José State University—was founded in 1857, and became the first institution of public higher education in California. California State University, Channel Islands is the newest CSU campus, opening in fall 2002, with freshmen arriving in fall 2003.

Responsibility for the CSU is vested in its Board of Trustees, whose members are appointed by the governor of California. The trustees appoint the chancellor, who is the chief executive officer of the system, and the presidents, who are the chief executive officers of their respective universities.

The CSU offers more than 4,000 undergraduate and graduate degree programs through both classroom and online instruction.

For more information about the California State University and any of its 23 campuses, visit the California State University System website (https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.calstate.edu%2F&data=05%7C02%7Ctwise%40csusb.edu%7C71dbb0863bcf45c62b5208de4d823145%7Cd73b9eaa07c947c4a6cef13bee0e8117%7C0%7C0%7C639033418759254227%7CUnknown%7CTWFpbGZsb3d8eyJFbXB0eU1hcGkiOnRydWUsIlYiOiIwLjAuMDAwMCIsIlAiOiJXaW4zMiIsIkFOIjoiTWFpbCIsIldUIjoyfQ%3D%3D%7C0%7C%7C%7C&sdata=PDH2y6rR2N1p0M1rKYPBT2ri00UIzyjKRmk%2F4O6uvCg%3D&reserved=0), along with its current Factbook (https://nam10.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.calstate.edu%2Fcsu-system%2Fabout-the-csu%2Ffacts-about-the-csu%2FDocuments%2Ffacts2024.pdf&data=05%7C02%7Ctwise%40csusb.edu%7C71dbb0863bcf45c62b5208de4d823145%7Cd73b9eaa07c947c4a6cef13bee0e8117%7C0%7C0%7C639033418759294795%7CUnknown%7CTWFpbGZsb3d8eyJFbXB0eU1hcGkiOnRydWUsIlYiOiIwLjAuMDAwMCIsIlAiOiJXaW4zMiIsIkFOIjoiTWFpbCIsIldUIjoyfQ%3D%3D%7C0%7C%7C%7C&sdata=E1Sa41hOLI%2FYlXLVSniY19OvVMH7qsr9yX5wEiPOBEk%3D&reserved=0).

About CSUSB

California State University, San Bernardino is a preeminent center of intellectual and cultural activity in Inland Southern California. The San Bernardino Campus opened in 1965, and is set at the foothills of the beautiful San Bernardino Mountains. The Palm Desert Campus opened in 1986 as the "Coachella Valley Center"; a permanent site was granted in 1994 and the first permanent building occupied in 2002. The university serves approximately 18,000 students each year on its two campuses, and graduates approximately 5,000 students annually.

CSUSB continues to climb in national rankings, both overall and in specific disciplines. For example, we are climbing in the national rankings for social mobility (the Wall Street Journal has us at 3rd in the country for 2025). Social mobility benchmarks four-year U.S. colleges and universities according to how effectively they enroll students from low-income backgrounds and graduate them into good-paying jobs.

CSUSB reflects the dynamic diversity of the region. The vast majority of students are first-generation, that is, the first in their family to attend college. For example, Excelencia in Education, which is "committed to Ensuring America's Future by increasing Latino college completion," has awarded CSUSB the Seal of Excelencia for 2024-2027 (https://www.edexcelencia.org/seal-excelencia/seal-excelencia-certified-institutions/). *Washington Monthly* lists CSUSB as No. 10 in the West in the Best Bang for the Buck (https://www.csusb.edu/inside/article/591332/washington-monthly-names-csusb-one-its-top-hispanic-serving-universities/) category. In the Best Value-National Universities listing (https://www.usnews.com/best-colleges/rankings/national-universities/best-value/?myCollege=national-universities&_sort=myCollege&_sortDirection=asc) for *US News and World Report*, CSUSB was ranked No. 45, making it the highest-ranked California public university. These rankings demonstrate that affordability does not cancel quality.

CSUSB's five academic colleges offer more than 70 undergraduate degrees, master's degree programs and a doctoral program as well as certificates. Those academic colleges include: the College of Arts and Letters, the Jack H. Brown College of Business and Public Administration, the James R. Watson and Judy Rodriguez Watson College of Education, the College of Natural Sciences and the College of Social and Behavioral Sciences. CSUSB's College of Extended and Global Education further expands the range of programs available to traditional and non-traditional students alike.

Two recent innovatory centers and schools garnering state and national attention include: CSUSB's Center for Cyber and AI, which equips students with hands-on experience and research opportunities, preparing them for high-impact careers in cybersecurity and artificial intelligence; and California's first school of entrepreneurship—the CSUSB Randall W. Lewis School of Entrepreneurship and Innovation.

Vision Statement

CSUSB aspires to be a model for transforming lives.

Mission Statement

At CSUSB, we promote each other's growth and success and enhance the vitality of our region through active learning, effective mentoring, impactful scholarship, and civic engagement. We cultivate the professional, ethical and intellectual development of our diverse students,

faculty and staff so they thrive and make positive contributions to our globally connected society.

CSUSB Strategic Plan

A task force representing all levels of California State University, San Bernardino worked throughout the 2022-2023 academic year to develop the 2023-2028 Strategic Plan. The plan builds on the foundation set forth by the previous plan, which was implemented in 2015-2020, and then extended for two years during the COVID-19 pandemic. The 2023-2028 plan continues goals and objectives from the previous plan, while proposing changes based on the university's new priorities and the shifting landscape of higher education. The 2023-2028 Strategic Plan is focused on four goals:

1. Student Success;
2. Faculty and Staff Success;
3. Diversity, Equity and Inclusion;
4. Internationalization.

For more information, please visit the Strategic Plan website (https://www.csusb.edu/strategic-plan/). Or you can download the plan (https://www.csusb.edu/sites/default/files/strategic_plan_23-28.pdf).

Economic Impact

The benefits of California State University, San Bernardino's economic, technological, social and environmental impacts can be felt throughout the region and all over California. CSUSB provides an exceptional return on investment not only for its students, but also for the region and state.

As of 2023-24, for every dollar California invests in CSUSB, the university returns $10.06 in statewide industry activity. When the impact of enhanced alumni earnings is included, $50.81 in statewide industry activity is generated. CSUSB's impact has supported 9,700 jobs statewide, generated $1.2 billion in industry activity, and generated $87.7 million in state and local tax revenue.

With approximately 2,500 employees, Cal State San Bernardino is one of the largest employers in the region. In addition to supporting job creation and reducing unemployment, 81% of alumni remain in the region, further strengthening and growing the Inland Empire economy.

As an additional clear benefit of a college degree, the latest data shows that Californians with a four-year college degree continue to have significant advantages over those without. Per the Public Policy Institute of California (https://www.ppic.org/publication/is-college-worth-it/), "California workers with a bachelor's degree earn a median annual wage of $90,000; only 5 percent of workers without a high school diploma and 12 percent of those whose highest level of education is a high school diploma earn as much (https://www.datawrapper.de/_/HqE7Y/). Indeed, bachelor's degree holders in the bottom quarter of the wage distribution earn more than 75 percent of workers without a high school diploma and half of workers with at most a high school diploma."

Academic Plan

California State University, San Bernardino operates on the semester system. The fall and spring terms each consist of 15 weeks of instruction plus a final exam week. The university also offers a self-support summer semester allowing students to accelerate their progress and take summer courses. Summer semester has two five-week sessions and one 10-week session in the term.

Most lecture/discussion/seminar courses are offered for three units of credit and meet three hours per week. Each unit of credit typically requires two hours of out-of-class study and preparation in addition to the hour of direct instruction in the class. Laboratories and activity-based courses meet for 2-3 hours of instruction a week for each unit of credit.

The minimum number of semester units required for the Bachelor's degree is 120. Some Bachelor's degree programs require additional units. Students planning to graduate in four years need to take an average of 15 units per semester to reach 120 units. Master's degrees require a minimum of 30 units, but some professional degrees, such as the M.S.W. in Social Work and M.S. in Clinical/Counseling Psychology, have licensing and/or accreditation standards demanding 60 units or more. The Ed.D. in Educational Leadership, Community College Specialization and the PK-12 Specialization requires 61 units for completion. The Ed.S. in School Psychology requires 63 units for completion.

Institutional Learning Outcomes

1. ***Breadth of Knowledge.*** Students identify, explain and apply multiple approaches to problem solving and knowledge production from within and across disciplines and fields to intellectual, ethical, social and practical issues.
2. ***Depth of Knowledge.*** Students demonstrate a depth of knowledge in a specific discipline or field and apply the values and ways of knowing and doing specific to that discipline or field to intellectual, ethical, social and practical issues.
3. ***Critical Literacies.*** Students analyze the ways artistic, oral, quantitative, technological and written expression and information both shape and are shaped by underlying values, assumptions and contexts, so that they can critically contribute to local and global communities.
4. ***Ways of reasoning and inquiry.*** Students engage in diverse methods of reasoning and inquiry to define problems, identify and evaluate potential solutions, and determine a course of action.
5. ***Creativity and Innovation.*** Students develop and use new approaches to thinking, problem solving and expression.
6. ***Integrative Learning.*** Students connect disciplines and learning experiences to frame and solve unscripted problems using lenses from multiple fields, contexts, cultures and identities.
7. ***Engagement in the Campus, Local and Global Communities.*** Students develop dispositions and apply intellect and behaviors to respect and promote social justice and equity on campus and across local and global communities.
8. ***Diversity and Inclusion.*** Students understand how dynamics within global communities influence the ways in which people see the world. They develop dispositions to respectfully interact and collaborate with diverse individuals and groups and acknowledge their own perspectives and biases.

Colleges of the University

The academic program of the university is offered through five colleges —the College of Arts and Letters, the Jack H. Brown College of Business and Public Administration, the James R. Watson and Judy Rodriguez Watson College of Education, the College of Natural Sciences and the College of Social and Behavioral Sciences—organized into departments and schools.

CSUSB's College of Extended and Global Education further expands the range of programs available to traditional and non-traditional students alike.

Degree programs are offered by departments, schools, colleges and interdisciplinary committees. Navigate to Programs A-Z (p. 839) for a complete listing of the degrees and programs available at the university. In addition, the university now offers a CSUSB Program Finder (https://www.csusb.edu/join-the-pack/program-finder/) to assist prospective students in their college choice process.

CSUSB Philanthropic Foundation

(909) 537-7769 CSUSB Philanthropic Foundation website (https://www.csusb.edu/philanthropic-foundation/)

CSUSB Philanthropic Foundation, formerly known as the Foundation for California State University, San Bernardino, is the officially recognized charitable gift-processing auxiliary organization of California State University, San Bernardino (CSUSB). The Foundation operates as a tax-exempt 501(c)(3) organization and its federal Tax ID number is 45-2255077.

The Foundation encourages gifts and financial support while creating learning opportunities for students, alumni, and the community that complement the University's teaching, research and public service goals driven by intellectual interaction and creativity.

The CSUSB Philanthropic Foundation is a non-profit corporation chartered solely to support, benefit and advance the mission of California State University, San Bernardino that fosters a supportive and welcoming social and physical setting where students, faculty and staff feel they belong and can excel.

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- Jerrold Coakley
- Carson Fajardo
- Grace Garner
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- Cole R. Jackson
- Nefertiti Long (Nef)
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- Rafik Mohamed
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Co-Chief Diversity Officer	Robin Phillips, M.S.
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Director, Research and Sponsored Programs Administration	Vacant
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Chief of Police and Director of Public Safety	John Guttierez, M.A.
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Manager, Payroll Services	Diane Maling
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Senior Manager, Employee & Labor Relations	Vacant
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HEP High School Equivalency Program	Flavio Paniagua Navarro, M.A.
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Director, Undocumented Student Success Center	Jairo Leon, M.Ed.
Director, Veterans Success Center	Agustin Ramirez, M.A.
Director, Educational Opportunity Program	Veronica Ramirez-Amerson, M.S.

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Director, Marketing and Brand Management	Angela Gillespie, M.P.A.
Associate Director, Digital Brand Strategy	Elizabeth Ferreira, M.B.A.

Palm Desert Campus

Telephone: (760) 341-2883

Website: Palm Desert Campus (https://www.csusb.edu/pdc/)

Mission Statement

The Palm Desert Campus of California State University, San Bernardino is a dynamic, student-centered learning community that aspires to create transformational opportunities that nurture and sustain the intellectual, environmental, economic, and cultural richness of the Coachella Valley. By collaborating with and investing in students, faculty, staff, and communities, together we strive to define the future.

General Information

More than 40 years ago, Coachella Valley civic leaders began to call for a local public four-year college. The group's efforts lead to California State University, San Bernardino establishing a branch campus on the College of the Desert campus. From the beginning, the efforts were to serve Coachella Valley students locally with programs that met local needs. In 2002, a permanent campus was established on Cook Street.

The CSUSB Palm Desert Campus offers students the resources of a large, comprehensive university through the San Bernardino campus, and at the same time, the supportive environment of a small campus with small classes and more opportunities for contact with faculty.

Whether you are looking for a four-year degree, to enhance your professional skills, or complete one of our many degree, credential, or certificate programs, you will find everything you need at the CSUSB Palm Desert Campus..

Facilities

The CSUSB Palm Desert Campus is located on a 169-acre site off the I-10 freeway. The first building constructed and occupied in 2002 was the Mary Stuart Rogers Gateway Building, funded by the Mary Stuart Rogers Foundation, the Berger Foundation, the City of Rancho Mirage and Florence Rigdon, a Rancho Mirage resident. Housing the university's administrative offices, the building also has more than 3,000 square feet of classroom space, the 120-seat Richard and Janice Oliphant Auditorium, the campus bookstore, the Rancho Mirage Student Center and distance learning labs.

The second and third buildings, the Indian Wells Center for Educational Excellence and Indian Wells Theater, were occupied in 2005 and built largely with funds from the City of Indian Wells, The Annenberg Foundation, the H.N. and Frances C. Berger Foundation, Palm Desert National Bank, and Jean Hahn and John I. Hardy. The Indian Wells Center for Educational Excellence houses a variety of student services, including the Career Center, the Student Success Studio, the Porter Resource Center, Paws Radio and faculty offices. The Indian Wells Theater hosts campus and community events throughout the year.

The Palm Desert Health Sciences Building, which is LEED Gold certified, opened in 2008. Donors for this building included all nine of the Coachella Valley's municipalities as well as the County of Riverside, The Desert Healthcare District, the R.D. and Joan Dale Hubbard Foundation, The Webb Foundation, Palm Desert National Bank, and many other community members. This facility houses the Helene A. Hixon Information Resource Center, biology and chemistry labs, nursing labs, the R.D. and Joan Dale Hubbard Student Health and Psychological Counseling Center, the DEN Food Pantry, a Kinesiology lab, the Veterans Success Center, as well as additional classrooms and computer labs.

These buildings include state-of-the-art classrooms, faculty offices, video conference classrooms, full computer and internet presentation capabilities in all classrooms, as well as computer laboratories for student research, and allow for study individually or in groups.

Admissions

To apply for admission to the CSUSB Palm Desert Campus, students must complete the CSUMentor application online at Cal State Apply (https://www2.calstate.edu/apply/) and have transcripts sent to:

CSUSB Palm Desert Campus

Office of Admissions

37500 Cook Street

Palm Desert, CA 92211

You can also watch the latest Palm Desert Campus video (https://www.youtube.com/watch/?v=6UcoqJcYBc0) to learn more about the campus.

For further admissions information, please contact the PDC Admissions Team (https://www.csusb.edu/pdc/prospective-students/).

Freshman and Transfer Students

Jazmin Vera

(909) 537-8109, jazmin.vera@csusb.edu

Alissa Rocha

(909) 537-8147, alissa.rocha@csusb.edu

Graduate and Credential Programs

Visit the Meet the Counselors webpage (https://www.csusb.edu/pdc/prospective-students/) for more information.

Commencement

Special Events and Guest Services - Commencement Office
(909) 537-7360

Participation in commencement activities is voluntary.

For dates and deadlines, please visit commencement.csusb.edu (http://commencement.csusb.edu/).

Master's and Doctoral Students

To participate in commencement, candidates completing a master's or doctoral degree must file a grad check AND meet the eligibility requirements specified by their program. For the specific requirements, candidates should consult their program coordinator.

Credential Students

Students who complete a Multiple Subject, Single Subject, Education Specialist Basic credential, Pupil Personnel Services, or Designated Subjects credential can participate in a Credential Recognition Ceremony rather than commencement. The Credential Recognition Ceremony is

held on the San Bernardino campus in May. Specific information can be obtained from the College of Education, Student Services Office, CE-102, (909) 537-5609.

Financial Aid & Scholarships

The Palm Desert Campus has a financial aid consultant to assist with questions, applications, and other issues pertaining to financial aid and scholarships.

Edith Passi

(909) 537-8143, edith.passi@csusb.edu

The Palm Desert Campus offers many scholarships to PDC students. Visit the Scholarships webpage (https://www.csusb.edu/pdc/current-students/scholarships/) for a list of scholarships and for more information.

There are many scholarships administered by the CSUSB Financial Aid Office available for PDC students. They can be applied for online at the Financial Aid website (https://finaid.csusb.edu) beginning January through March 2nd of each year. You can also search for off-campus scholarship opportunities using the “Search” feature on My Coyote.

Palm Desert Campus Programs

Bachelor’s Programs (https://www.csusb.edu/pdc/our-programs/undergraduate/)

- Administration, BA (p. 383)
- Career and Technical Studies, BA (p. 423) (online)
- Career and Technical Studies, BS (p. 423) (online)
- Communication, BA (p. 172)
- Criminal Justice, BA (p. 368)
- Child Development, BA (p. 323)
- English, BA (p. 186)
- History, BA (p. 340)
- Information Systems and Technology - Cybersecurity (p. 398)
- Kinesiology, BS (p. 271)
- Liberal Studies, BA (p. 227)
- Nursing, BS (p. 289)
- Nursing - RN to BSN, BS (p. 289)
- Psychology, BA (p. 359)
- Social Work, BA (p. 378)

Credential Programs in Education (https://www.csusb.edu/pdc/our-programs/credential-programs-education/)

- Administration Services Professional (p. 430)
- Designated Subjects Career and Technical Education (p. 431) (online)
- Designated Subject Credential in Adult Education (p. 430) (online)
- Multiple Subject (p. 459)
- Single Subject - Student Teaching Track (p. 463)
- Single Subject - Intern Track (p. 462)

Certificate Programs (https://www.csusb.edu/pdc/our-programs/certificates/)

- E-Learning (p. 433)
- TESOL (Hybrid) (p. 195)

Graduate Programs (https://www.csusb.edu/pdc/our-programs/graduate-programs/)

- Accountancy 3:2 (p. 390)
- Business Administration (p. 381) (online)
- Career and Technical Education (p. 424) (online)
- Education Administration (p. 425)
- Instructional Design and Technology (p. 427)
- Public Administration (p. 409) (online)
- Nursing (Hybrid) (p. 287)
- Social Work (p. 373)
- Special Education (p. 438) (hybrid)
- Teaching English to Speakers of Other Languages (TESOL) (p. 457) (online)

Academic Advising

Ruth Howell

(909) 537-8110, rhowell@csusb.edu

Pedro Saltipar

(909) 537-8234, pedro.saltipar@csusb.edu

Services Include:

- Review:
  - General Education (GE) requirements
  - Graduation requirements
  - Paws Report
  - University policies and procedures
  - Roadmaps
- Undeclared advisement
- Academic contracts
- Check holds and to-do list
- Plan classes for the next term
- Build or check myCAP
- Workshops
- Stay on track for graduation!

Accreditation

California State University, San Bernardino is accredited by the Western Association of Schools and Colleges (https://www.wscuc.org/), the official accrediting body for institutions of higher learning in the West. The teaching credential programs are approved by the California State Board of Education, California Commission on Teacher Credentialing, and the National Council for Accreditation of Teacher Education (NCATE).

The following professional programs have received specialized approval or accreditation from organizations recognized by the National Council on Postsecondary Education:

Accountancy (M.S.) - AACSB The Associate to Advance Collegiate Schools of Business

Administration (B.A., M.B.A.) - AACSB The Associate to Advance Collegiate Schools of Business

Art & Design (B.A., B.F.A., M.F.A.) - NASAD National Association of Schools of Art and Design

Chemistry (B.S.) - American Chemical Society Certified

Computer Engineering (B.S.) - Engineering Accreditation Commission of ABET (http://www.abet.org)

Computer Science (B.S.) - Computing Accreditation Commission of ABET (http://www.abet.org)

Entrepreneurship and Innovation (M.S.) - AACSB The Associate to Advance Collegiate Schools of Business

Finance (M.S.) - AACSB The Associate to Advance Collegiate Schools of Business

Health Science, Environmental Health (B.S.) - National Environmental Health Science and Protection Accreditation Council; California Department of Health Services, Environmental Health Specialist Registration Committee

Information System and Technology (B.S., M.S.) - AACSB The Associate to Advance Collegiate Schools of Business

Music (B.A.) - National Association of Schools of Music

Nursing (B.S.) - Commission on Collegiate Nursing Education

Nutrition and Food Sciences (B.S.) - Accreditation Council for Education of Nutrition and Dietetics (ACEND) as the Didactic Program in Dietetics (DPD) and individualized Supervised-Practiced Pathway (ISPP) Program.

Public Administration (M.P.A.) - NASPAA. Network of Schools of Public Policy, Affairs and Administration. (https://www.naspaa.org/about-naspaa/)

Rehabilitation Counseling (M.A.) - CACREP, The Council for Accreditation of Counseling and Related Educational Programs.

Social Work (B.A., M.S.W.) - Council on Social Work Education

Theatre Arts (B.A.) - National Association of Schools of Theatre

Academic Calendar

Fall Term 2026

Apr. 27-Aug. 23	Fall registration
Aug. 17	Beginning of Academic Year
Aug. 21	Last day to withdraw with full refund
Aug. 22	Saturday instruction begins
Aug. 24	Weekday instruction begins
Aug. 28	Last day to add open classes via myCoyote
Sep. 7	Holiday: Labor Day
Sep. 21	CENSUS (Last day to drop classes via myCoyote)
Nov. 11	Holiday: Veteran's Day
Nov. 26	Holiday: Thangsgiving
Nov. 27-28	Thanksgiving recess
Dec. 4	Weekday instruction ends
Dec. 5	Saturday instruction ends
Dec. 7-12	Final exams
Dec. 11-12	Commencement
Dec. 17	Grades due; end of term

Winter Intersession 2026/27

Visit the College of Extended & Global Education (https://www.csusb.edu/winter-intersession/) for more information about Winter Intersession

Nov. 2 - Dec. 17	Winter Intersession registration
Dec. 17	Last day to withdraw with full refund
	Last day to add open classes via myCoyote
Dec. 18	First day of instruction
Dec. 22	CENSUS (Last day to drop via myCoyote)
Dec. 25	Holiday: Christmas Day
Jan. 1	Holiday: New Year's Day
Jan. 11	Last day of instruction
	Final exams
Jan. 14	Grades due, end of term

Spring Term 2027

Oct. 26 -Jan 14	Spring registration
Jan. 14	Last day to withdraw for full refund
Jan. 15	Weekday instruction begins
Jan. 16	Saturday instruction begins
Jan. 18	Holiday: Martin Luther King Jr. Day
Jan. 22	Last day to add open classes via myCoyote
Feb. 12	CENSUS (Last day to drop classes via myCoyote)
Feb. 15	Holiday: President's Day
Mar. 29-Apr. 3	Spring break
Mar. 31	Holiday: César Chávez
May 1	Saturday instruction ends
May 7	Weekday instruction ends
May 8, 10-14	Final exams
May 14-15	Commencement
May 20	Grades due; end of term

Summer Term 2027

Apr. 5 - May 26	Summer registration
May 26	Last day to withdraw for full refund for 10W & 5W1
May 27	Instruction begins for 10W & 5W1
Jun. 3	CENSUS (Last day to drop classes via myCoyote for 5W1)
Jun. 15	CENSUS (Last day to drop classes via myCoyote for 10W)
Jun. 17	Holiday: Juneteenth holiday (observed)
Jul. 1	Holiday: Independence Day (observed)
Jul. 6	Instruction ends for 5W1
	Final exams for 5W1
Jul. 7	Grades due; end of term for 5W1
	Last day for a full refund (5W2)
Jul. 8	First day of instruction (5W2)
Jul. 15	CENSUS (Last to drop classes via myCoyote for 5W2)
Aug. 11	Instruction ends for 10W
	Final exams for 10W
Aug. 12	Instruction ends for 5W2
	Final exams for 5W2
Aug. 16	Grades due; end of term for 10W & 5W2

The above calendar is not intended to be construed as an employee work calendar. For a more detailed calendar of academic dates and deadlines, see the University Calendar (https://www.csusb.edu/university-calendar/).

Admission

Requirements for admission to California State University, San Bernardino are in accordance with Title 5, Chapter 1, Subchapter 3, of the California Code of Regulations. Complete information is available on the California State University (CSU) website.

All CSU applications must be submitted online on the Cal State Apply website. An acknowledgement will be sent to the applicant when the online application has been submitted.

Importance of Filing Complete, Accurate and Authentic Application Documents

CSUSB advises prospective students that they must supply complete and accurate information on the application for admission, residency questionnaire and financial aid forms. Further, applicants must, ***when requested***, submit authentic and official transcripts of all previous academic work attempted. Failure to file complete, accurate and authentic application documents may result in denial of admission, cancellation of registration or academic credit, suspension or expulsion (Section 41301, Article 1.1, Title 5, California Code of Regulations).

These programs do not apply to students seeking degrees concurrently at two different California State University (CSU) campuses or with a UC or CCC. Financial aid and scholarships are tied to enrollment status at a single institution. Students cannot receive financial aid at two universities at the same time. The CSU system does not have a policy that explicitly addresses seeking degrees concurrently at more than one CSU campus. However, the general practice is that students are expected to be enrolled at a single CSU campus at a time, unless through CSU Concurrent Enrollment or a pre-approved agreement between the two CSU campuses.

CSU Immunization Requirements

The CSU (https://www.calstate.edu/attend/student-services/Documents/immunization-requirements-and-recommendations.pdf) Immunization Requirements policy (https://www.calstate.edu/attend/student-services/Documents/immunization-requirements-and-recommendations.pdf) applies to undergraduate and graduate students, students matriculated in self-support degree programs, and K-12 students participating in concurrent enrollment courses entering the California State University (CSU) in or after fall 2023.

Immunization and Screening, Recommendations and Requirements are adopted from the American College Health Association (ACHA) Immunization Recommendations for College Students (https://www.acha.org/resource/immunization-recommendations-for-college-students/) and the California Department of Public Health (CDPH) Immunization & Screening Recommendations for College Students (https://www.cdph.ca.gov/Programs/CID/DCDC/Pages/Immunization/School/college.aspx).

See the CSU (https://www.calstate.edu/attend/student-services/Documents/immunization-requirements-and-recommendations.pdf) Immunization Requirements policy (https://www.calstate.edu/attend/student-services/Documents/immunization-requirements-and-recommendations.pdf) for more information regarding additional authorized discretionary requirements, academic programs, fieldwork or clinical placement requirements, or immunization access.

NOTE: Any revisions of the CDPH recommendations for colleges and universities as of February 1, each year, will be reflected in CSU recommendations for the subsequent fall academic term.

Exemptions

A student may be exempted from any requirements in this policy as described below:

Medical Exemption: due to a medical condition for which an Approved Vaccine presents a significant risk of a serious adverse reaction. Any medical Exemption must be verified by a certified or licensed healthcare professional.

Religious Exemption: due to either (i) a person's sincerely held religious belief, observance, or practice, which includes any traditionally recognized religion, or (ii) beliefs, observances, or practices which an individual sincerely holds and that occupy a place of importance in that individual's life, comparable to that of traditionally recognized religions.

Required Immunization

Hepatitis B (Hep B) – Ages 18 and younger as per California law (HSC sections 120390-120390-7), enrollees who are 18 years of age or younger are required to provide proof of full immunization against the hepatitis B virus prior to enrollment.

Immunization and Screening Recommendations

The CSU recommends that students are current for the immunizations listed below. Immunizations and screening recommendations, and immunization schedules are linked above. Campuses should link to this policy to provide students with detailed immunization and screening recommendations.

Recommended Vaccines to Reduce Outbreaks

1. Influenza Vaccine
2. Measles, Mumps and Rubella (MMR) Vaccine
3. Meningococcal Conjugate (Serogroups A, C, Y, W-135) Vaccine
4. Serogroup B Meningococcal Vaccine
5. Tetanus-Diphtheria-Pertussis (Tdap) Vaccine
6. Varicella (Chickenpox) Vaccine

Other Vaccines Recommended for Adults

1. Hepatitis A (Hep A) Vaccine
2. Hepatitis B (Hep B) Vaccine – Ages 19 and older
3. Human Papillomavirus (HPV) Vaccine
4. Pneumococcal Vaccine
5. Polio Vaccine

Recommend Screening

1. Tuberculosis Screen/Risk Assessment (TB)

The above are not admission requirements but are required of students as conditions of enrollment in CSU.

Student Immunization Requirements

CSUSB has implemented the following requirements and recommendations in accordance with the California State University (CSU) Policy (Executive Order 803) on immunization requirements and

the CSUSB Student Immunization Policy (https://www.csusb.edu/policies/student-immunization-policy/). These policies apply to undergraduate and graduate students[1], students[1]matriculated in self-support degree programs and K-12 students[1]participating in concurrent enrollment courses entering the CSU.

Required Immunizations

CSUSB requires that students are current for the immunizations listed below. This requirement is not an admission requirement but is a condition of enrollment at CSUSB for undergraduate and graduate students[1], students[1]matriculated in self-support degree programs and K-12 students[1]participating in concurrent enrollment courses entering the California State University (CSU).

Required Immunizations:

- **Measles, mumps and rubella (MMR)**: Two doses with the first dose on or after the first birthday; OR positive titer (laboratory evidence of immunity to disease)
- **Hepatitis B (Hep B)**: Students age 18 and younger are required to complete the series. Based on the type of vaccine, the series is either two or three doses. (California Health & Safety Code, Section 120390.5)

Recommended Immunizations and Screenings

Recommended Vaccines to Reduce Outbreaks:

- Influenza (flu): Annually for all students, regardless of age.
- Meningococcal Conjugate (Serogroups A, C, Y, W-135): At least one dose at age 16 or older for students through age 21.
- Meningococcal B (Meningitis B): Complete series, may be two or three doses, for students age 16 through 21.
- Tetanus, diphtheria, pertussis (Tdap): One dose within the last ten years.

Other Vaccines Recommended for Adults:

- Hepatitis A (Hep A): All students regardless of age.
- Hepatitis B (Hep B): Students age 19 and older.
- Human Papillomavirus (HPV): For all students through age 45.
- Pneumococcal: For all students age 65 and older and for students with certain medical conditions (e.g., severe asthma, diabetes, chronic liver or kidney disease)
- Poliovirus (polio): Regardless of age, if the series was not completed as a child.

Recommended Screening/Risk Assessment:

- Tuberculosis (TB) screening / risk assessment: All incoming students should complete a tuberculosis risk assessment questionnaire. Incoming students who are at higher risk for TB infection, as determined by the screening questions, should undergo testing for TB infection within 30 days of CSUSB entry.

Meeting the Requirement

Students may fulfill the immunization requirements by submitting medical documentation of immunization online through the secure Patient Portal on the Student Health Center website (https://www.csusb.edu/student-health-center/).

Exemptions

Students are permitted to seek exemptions to the above immunization requirements for medical or for sincerely held religious beliefs. Students seeking an exemption will be required to submit an Exemption Request Form to the University.

Additional Discretionary Requirements

In the event of a local or campus-based outbreak of a vaccine-preventable disease, the local public health department and/or the California Department of Public Health is authorized to require immunizations beyond those currently required. CSUSB will consult with the appropriate public health authority in case of an outbreak.

Academic Program and Fieldwork or Clinical Placement Requirements

All students enrolled in healthcare fields of study or teacher education programs are required to provide documentation regarding the completion of immunizations and health screenings as established by the state licensing agencies or clinic placement sites or fieldwork sites. Students should contact the academic program for the specific required immunizations, health screenings (e.g., Tuberculosis screening and physical examination) and any other fieldwork or clinic placement requirements.

Registration Holds

Students who are not compliant with the University's immunization requirements may be subject to a registration hold. This hold may be implemented for the second semester of their enrollment at the University and will prevent registration for future terms.

[1]Students are defined as all incoming students, with the exception of the following:

A. Students enrolled in fully online degree programs

B. Students enrolled in non-credit, professional development/ extended education programs such as Extension or Open University

Reservation

The university reserves the right to select its students and deny admission to the university or any of its programs as the university, in its sole discretion, determines appropriate based on an applicant's suitability and the best interests of the university.

General Information - Admission and Evaluation of Academic Records

Advanced Placement

CSUSB grants credit toward its undergraduate degrees for successful completion of examinations of the Advanced Placement Program of the College Board. Students who present scores of three or better will be granted up to six-semester units of college credit. Questions regarding the acceptance of Advanced Placement exams should be directed to the Office of the Registrar (https://www.csusb.edu/registrar/).

Credit by Examination

Students may challenge courses by taking examinations developed at CSUSB.

Credit shall be awarded to those who pass them successfully.

A student who already possesses, or through independent study is able to acquire, the skills or knowledge of the ideas and concepts of a course can accelerate progress through the university. Students must register for the examination in the office of the college or department concerned before the first day of classes of the term in which the course is offered. Some presumptive evidence is required to indicate that the student has a reasonable chance of passing the examination. The student must complete the examination within the first two weeks of the term. Courses may be designated by a college, school, department or appropriate unit as inappropriate to be challenged by examination on the basis that course content is not suited to such examination.

No fee is charged for these examinations. A student who passes an examination is given the grade of CBE for that course, provided that this does not duplicate credit counted for his admission to the university. No official record is made of failures in these examinations.

Examinations for course credit are given under the following restrictions:

1. They may be taken only by students matriculated through regular enrollment at the university in courses other than the one(s) to be challenged.
2. They may not be taken by students who have received credit for work in the subject in advance of the course in which the examination is requested, except where permission is granted by the college or department concerned.
3. They may not be taken to raise grades or remove failures in courses.
4. Once students have successfully challenged a course, they may not subsequently enroll in the course for credit. Units attempted, units earned and grade points for any such enrollment will be disallowed.
5. A maximum of 27 units of credit may be received through such examinations.
6. A student may repeat an examination for credit only upon approval of the associate provost for academic programs.
7. Credit by examination may not be used to fulfill the minimum residency requirement.
8. The course must be offered during the term in which the examination is taken. However, students may not enroll in a course they plan to challenge. If the challenge is unsuccessful, the student may add the course subject to the regulations for adding a class printed in the *Class Schedule*.

Exact times and places of examinations are announced by the departments concerned. Students who wish to take an examination should consult the departmental office well in advance.

Credit for Non-Collegiate Instruction

CSUSB grants undergraduate degree credit for successful completion of non-collegiate instruction, either military or civilian, appropriate to the baccalaureate degree, which has been recommended by the Commission on Educational Credit and Credentials of the American Council on Education. The numbers of units allowed are those recommended in the Guide to the Evaluation of Educational Experience in the Armed Services and the National Guide to Educational Credit for Training Programs. For regulations concerning credit by examination in graduate programs refer to Graduate Degree and Program Requirements (https://catalog.csusb.edu/graduate-degree-programs/graduate-degree-program-requirements/).

Credit for Comprehensive Examination Courses

Any student admitted to this campus may earn degree credit for no more than three comprehensive examination courses regardless of the total units earned in those courses. This maximum is to be counted separately from all other out-of-class curriculum options (for example, credit by examination). The student's major discipline may further restrict the number of comprehensive examination credits acceptable toward the major.

In cases where the subject matter of a comprehensive examination course duplicates that of a course taken previously, the university's Repeat of Course policy will apply. In no instance will duplicate credit be awarded for a repetition of subject matter.

Appeal of Admission Decision

Section 89030.7 of the California Education Code requires that the CSU establishes specific requirements for appeal procedures for a denial of admission. Each CSU must publish appeal procedures for applicants denied admission to the university. The procedure is limited to addressing university decisions to deny an applicant admission to the university.

Admission appeal procedures must address the basis for appeals, provide 15 business days for an applicant to submit an appeal, stipulate a maximum of one appeal per academic term, provide specific contact information for the individual or office to which the appeal should be submitted and indicate a time estimate for when the university expects to respond to an appeal. The appeal procedures must be included in all denial of admission notifications to students and must also be published on the university website.

Appeal Procedures for Applicants Denied Admission to CSUSB (https://www.csusb.edu/admissions/apply-csusb/what-if-i-dont-qualify/)

Use of Social Security Number

Applicants are required to include their correct social security numbers in designated places on applications for admission pursuant to the authority contained in Section 41201, Title 5, California Code of Regulations, and Section 6109 of the Internal Revenue Code (26 U.S.C. 6109). The university uses the social security number to identify students and their records including identification for purposes of financial aid eligibility and disbursement and the repayment of financial aid and other debts payable to the institution. Also, the Internal Revenue Service (IRS) requires the university to file information returns that include the student's social security number and other information such as the amount paid for qualified tuition, related expenses, and interest on educational loans. This information is used by the IRS to help determine whether a student, or a person claiming a student as a dependent, may take a credit or deduction to reduce federal income taxes. The Financial Aid Office will also use it to report Federal Work Study earnings to the Federal Department of Education.

CSU Application Filing Periods

Undergraduate Application Procedures

Prospective students applying for part-time or full-time undergraduate programs of study must submit a completed undergraduate application. The $70 nonrefundable application fee should be paid online at the time of application via credit card or PayPal and may not be transferred or used to apply to another term. An alternate major may be requested on

the application if desired by the university. The applications of persons denied admission to an impacted university may be redirected to another university at no cost, but only if the applicant is CSU eligible.

Impacted Programs

The CSU designates programs as impacted when more applications from regularly eligible applicants are received in the initial filing period (October and November for fall terms, June for winter terms, July for spring terms, February for summer terms) than can be accommodated. Some programs are impacted at every university which they are offered; others are impacted only at a few universities.

Candidates for admission must meet all of the university's specified supplementary admission criteria if applying to an impacted program or university.

The CSU will announce during the fall filing period those CSUs or programs that are impacted. Detailed information on university and program impaction is available on the Impaction at the CSU website.

Each university will communicate supplementary admission criteria for all impacted programs to high schools and community colleges in their application service area and will disseminate this information to the public through appropriate media. This information will also be published on **CSUSB's** Impaction Information website (https://www.csusb.edu/admissions/impaction-information/).

Applicants must file applications for admission to an impacted program during the initial filing period. Applicants who wish to be considered for impacted programs at more than one CSU should file an application at each university for which they seek admission consideration.

Supplementary Admission Criteria

Each university with impacted programs or class-level admission categories uses supplementary admission criteria in screening applicants. Supplementary criteria may include rank-ordering of freshman applicants based on the combination of student's "A-G" GPA and supplemental factors or rank-ordering of transfer applicants based on verification of the Associate in Arts for Transfer (AA-T) or Associate in Science Transfer (AS-T) degrees, the overall transfer grade point average (GPA), completion of specified prerequisite courses and a combination of campus-developed criteria. Applicants for freshman admission to impacted universities or programs may need to have a higher "a-g" GPA . In no case will standardized test scores be utilized in making freshman admission decisions.

The supplementary admission criteria used by individual CSUs to screen applicants are made available by the universities to all applicants seeking admission to an impacted program.

Students interested in attending only the summer term at CSUSB should visit Admissions & Student Recruitment (http://admissions.csusb.edu/) around April 1 for information.

Each non-impacted campus accepts applications until capacities are reached. Many campuses limit undergraduate admission in an enrollment category due to overall enrollment limits. If applying after the initial filing period, consult the campus admission office for current information.

Similar information is conveniently available at Cal State Apply and Admissions & Student Recruitment (http://admissions.csusb.edu/).

On-time applicants may expect to receive an acknowledgment from the campuses to which they have applied within two to four weeks of filing the application. The notice may also include a request that applicants submit additional records necessary to evaluate academic qualifications. Applicants may be assured of admission if the evaluation of relevant qualifications indicates that applicants meet CSU admission requirements, and in the case of admission impaction, supplemental criteria for admission to an impacted program. Unless specific written approval/confirmation is received, an offer of admission is not transferable to another term or to another campus.

Undergraduate Admission Requirements

Freshman Requirements

Generally, applicants will qualify for consideration for first-time freshman admission if they meet the following requirements:

1. Have graduated from high school, have earned a Certificate of General Education Development (GED) or have passed the California High School Proficiency Examination (CHSPE);
2. Complete the 15-unit comprehensive "a-g" pattern of college preparatory courses;
3. Have completed, with grades of C- or better, each of the courses in the comprehensive pattern of college preparatory subject requirements also known as the "a-g" pattern (see "Subject Requirements"); and
4. Earn a qualifying "a-g" grade point average (GPA) as described below.
   - California residents and graduates of California high schools will be eligible for admission by earning a 2.50 or greater "a-g" GPA.
   - Any California high school graduate or resident of California earning a GPA between 2.00 and 2.49 may be evaluated for admission based upon supplemental factors such as number of courses exceeding minimum "a-g" requirements, household income, extracurricular involvement, and other available information that would inform the university admission decision.
   - Non-California residents may be eligible for admission to the CSU by earning a 3.00 or greater "a-g" GPA along with other supplemental factors utilized by the individual university, including those outlined by impacted universities and programs.

   a. Any non-California resident earning a GPA between 2.47 and 2.99 may be evaluated for admission based upon supplemental factors such as number of courses exceeding minimum "a-g" requirements, household income, extracurricular involvement, and other available information that would inform the university admission decision.
5. Each CSU will determine the supplemental factors used with GPA to determine eligibility in these cases and communicate these criteria publicly for prospective students.

The California State University (CSU) has permanently discontinued the use of ACT/SAT examinations in determining admission eligibility Submitted test scores by admitted students would be considered only for purposes of student placement in Math or English courses for enrollment.

Provisional Admission

CSUSB may provisionally admit first-time freshman applicants based on their academic preparation through the junior year of high school

and planned coursework for the senior year. The university will monitor the final terms of study to ensure that admitted students complete their secondary school studies satisfactorily, including the required college preparatory subjects, minimum GPA, and graduate from high school. Students are required to submit an official transcript after graduation to certify that all coursework has been satisfactorily completed. Official high school transcripts must be received prior to the deadline set by the university. In no case may documentation of high school graduation be received any later than the census date for a student's first term of CSU enrollment. A CSU may rescind admission decisions, cancel financial aid awards, withdraw housing contracts and cancel any university registration for students who are found to be ineligible after the final transcript has been evaluated.

Applicants will qualify for regular (non-provisional) admission when the university verifies that they have graduated and received a high school diploma, have completed the comprehensive pattern of college preparatory "a-g" subjects and, if applying to an impacted program or university, have met all supplementary criteria.

Subject Requirements

The CSU requires that first-time freshman applicants complete, with grades of C- or better, a comprehensive pattern of college preparatory study totaling 15 units. A "unit" is one year of study in high school.

- 2 years of social science, including 1 year of U.S. history, or U.S. history and government
- 4 years of English
- 3 years of math (algebra, geometry and intermediate algebra; four years recommended)
- 2 years of laboratory science (1 biological & 1 physical, both must have laboratory instruction)
- 2 years in the same foreign language (subject to waiver for applicants demonstrating equivalent competence)
- 1 year of visual and performing arts: art, dance, drama/theater or music
- 1 year of electives: selected from English, advanced mathematics, social science, history, laboratory science, foreign language, visual and performing arts or other courses approved and included on the UC/CSU "a-g" list

Finish in Four, Through in Two (Formerly California Promise)

The Finish in Four, Through in Two Program enables a specific number of CSUs to establish pledge programs for entering first-time students who are both interested and able to complete baccalaureate degrees in 4-years. All CSUs have established programs for students with Associate Degrees for Transfer from any California Community College to complete their baccalaureate degrees in 2-years. The program is limited to students who are residents of California.

Students who commit to enter either the 4-year or 2-year pledge will be given a priority registration appointment for each state-supported enrollment period and will be provided with routine and thorough academic advisement. In order to remain in the program, students must meet with their advisors as prescribed, develop an enrollment plan, and complete 30 semester units or the quarter equivalent within each academic year, including summer. Participating CSUs may stipulate other requirements as well.

Interested students entering the CSU should contact university offices or visit the Finish in Four, Through in Two (https://www.calstate.edu/apply/freshman/getting_into_the_csu/pages/the-california-promise-program.aspx?utm_source=google&utm_medium=performance-max&utm_campaign=ss23-engage) website.

High School Students

High school students may be considered for enrollment in certain special programs if recommended by the principal and the appropriate university department chair and if preparation is equivalent to that required of eligible California high school graduates. Such admission is only for a given specific program and does not constitute a right to continued enrollment.

Transfer Policies of California State University

Most commonly, college-level credits earned from an institutionally accredited college or university are accepted for transfer to member universities of the CSU; However, authority for decisions regarding the transfer of undergraduate credits is delegated to each university.

California Community Colleges can certify up to 34 semester (45 quarter) units of General Education Transfer Curriculum (Cal-GETC) for transfer students to fulfill lower- division general education requirements for any CSU prior to transfer.

"Certification" is the official notification from a California Community College that a transfer student has completed courses fulfilling lower-division general education requirements. The Cal-GETC certification course lists for particular community colleges can be accessed on the official transfer and articulation system for California's public colleges and universities website, assist.org (http://assist.org/).

CSUs may enter into course-to-course or program-to-program articulation agreements with other CSUs, any or all of the California community colleges and other institutionally accredited colleges or universities. Established CSU and CCC articulations may be found on assist.org (https://assist.org/). Students may be permitted to transfer no more than 70 semester (105 quarter) units to a CSU from an institution which does not offer bachelor's degrees or their equivalents, for example, community colleges. Given the university's 30-semester (45-quarter) unit residency requirement, no more than a total of 90 semester (135 quarter) units may be transferred into the university from all sources.

Transfer Requirements

Applicants who have completed fewer than 60 transferable semester college units (fewer than 90 quarter units) are considered lower-division transfer students. Applicants who have completed 60 or more transferable semester college units (90 or more quarter units) are considered upper-division transfer students. Applicants who complete college units during high school or through the summer immediately following high school graduation are considered first-time freshmen and must meet the CSU minimum eligibility requirements for first-time freshman admission. Transferable courses are those designated for baccalaureate credit by the college or university offering the courses and accepted as such by the university to which the applicant seeks admission.

Lower-Division Transfer Requirements

Some CSUs admit lower-division transfer applicants. Students are advised to check the respective university they are interested in to see if lower-division transfer applications are accepted.

An applicant who completes fewer than 60 semester (90 quarter) units of college credit is considered a lower-division transfer student. Due to enrollment pressures, a limited number of CSUs do not admit lower-division transfers so that more upper-division transfers can be accommodated.

Having fewer than 60 semester (90 quarter) units at the point of transfer may affect eligibility for registration priority at a CSU and may affect the student's financial aid status.

California resident transfer applicants with fewer than 60 semester or 90 quarter units must:

- Have a cumulative grade point average of 2.0 (C) or better in all transferable units attempted;
- Have completed, with a grade of C- or better, a course in English Composition and a course in mathematical and quantitative reasoning at a level satisfying CSU General Education Subject Area 1A and Subject Area 2, respectively;
- Be in good standing at the last institution attended; and
- Meet any one of the following eligibility standards.

Transfer Based on Current Admission Criteria

The applicant meets the freshman admission requirements in effect for the term for which the application is filed; - OR -

Transfer Based on High School Eligibility

The applicant was eligible as a freshman at the time of high school graduation and has been in continuous attendance in an accredited college since high school graduation; - OR -

Transfer Based on Making Up Missing Subjects

The applicant had a qualifiable eligibility index at the time of high school graduation (combination of GPA and test scores if needed), has made up any missing college preparatory subject requirements with a grade of C- or better, and has been in continuous attendance in an accredited college since high school graduation.

One baccalaureate-level course of at least 3 semester (4 quarter) units is usually considered equivalent to one year of high school study.

(Note: Some CSUs may require lower-division transfer students to complete specific college coursework, for example the four basic skill courses, as part of their admission criteria.)

Upper-Division Transfer Requirements

Generally, applicants will qualify for consideration for upper-division transfer admission if they meet all of the following requirements:

1. Cumulative grade point average of at least 2.0 in all transferable units attempted;
2. In good standing at the last college or university attended; and
3. Completed at least sixty (60) transferable semester (90 quarter) units of college-level coursework with a grade point average of 2.0 or higher and a grade of C- or better in each course used to meet the CSU General Education Requirements in written communication, oral communication, critical thinking, and mathematical concepts and quantitative reasoning, e.g. mathematics.

The 60 units must include at least 30 units of courses that meet CSU General Education Requirements, including all of the general education requirements in Communication in the English language (both oral and written) and critical thinking and the requirement in mathematical concepts and quantitative reasoning (3 semester units) OR the California General Education Transfer Curriculum (Cal-GETC) requirements in English Communication and Mathematical Concepts and Quantitative Reasoning.

Associate Degrees for Transfer (AA-T or AS-T)

The Associate in Arts for Transfer (AA-T) and the Associate in Science for Transfer (AS-T) degrees offered at the California Community Colleges (CCC) are designed to provide a California community college student the optimum transfer preparation and a clear admission pathway to the CSU degree majors.

CCC students who earn an Associate Degree for Transfer (AA-T or AS-T) are guaranteed admission with junior standing to a CSU and given priority admission consideration over other transfer applicants when applying to a local CSU or non-impacted CSU program. AA-T or AS- T admission applicants are given limited priority consideration based on their eligibility ranking to an impacted university/program or to CSUs/programs that have been deemed similar to the degree completed at the community college.

Students who have completed an AA-T/AS-T in a program deemed similar to a CSU major are able to complete remaining requirements for graduation within 60 semester (90 quarter) units. It is the responsibility of the student who has earned an AA-T/AS-T to provide documentation of the degree to the CSU. For the admissions process, students are responsible for working with their community college counselors to complete verification of AA-T or AS-T degree progress through the E-verify process within the established university deadlines.

Provisional Admission

CSUSB may provisionally or conditionally admit transfer applicants based on their academic preparation and courses planned for completion. The university will monitor the final terms to ensure that those admitted complete all required courses satisfactorily. All accepted applicants are required to submit an official transcript of all college-level work completed. CSUs may rescind admission for any student who is found to be ineligible after the final transcript has been evaluated. In no case may such documents be received and validated by the university any later than a student's registration for their second term of CSU enrollment.

English Language Requirement

All undergraduate applicants whose native language is not English, and who have not attended schools at the secondary level or above for at least three years full time where English is the principal language of instruction, must present a score of ***61*** or above on the Test of English as a Foreign Language (TOEFL). Some majors may require a score higher than ***61.*** Some majors and some CSUs may require a higher score. A few CSUs may also use alternative methods of assessing English fluency: Pearson Test of English Academic (PTE Academic), the International English Language Testing System (IELTS) and the International Test of English Proficiency (ITEP). Each university will post the tests it accepts

on its website and will notify students after they apply about the tests it accepts and when to submit scores. CSU minimum TOEFL standards are:

Pre-Defined Table

	Internet	Paper
Undergraduate	61	500
Graduate	80	550

Placement Measures for First-Year GE Written Communication and Mathematics/Quantitative Reasoning Courses

Freshman skills assessment and placement for general education written communication and mathematics/quantitative reasoning shall be based on systemwide skills assessment standards that include the Early Assessment Program/ Smarter Balanced Achievement Levels, ACT scores and/or SAT scores, high school coursework, high school GPA and math GPA.

Skills assessments are not a condition for admission to the CSU; they are a condition of enrollment.

These skills assessments are designed to inform entering freshmen of placement in appropriate baccalaureate-level courses based on their skills and needs.

First-time freshmen in need of support as determined by the skills assessment will be placed in supported instruction. Supported instruction is designed to assist students in credit bearing courses. Students may also be required to participate in the Supportive Pathways for First-Year Students Program. Visit csustudentsuccess.org (https://www.csustudentsuccess.org) to learn about this program.

The Supportive Pathways for First-Year Students Program offers pathways and academic and social support that align with each incoming student's needs. The program's goal is to ensure that first time students successfully complete the General Education (GE) English Composition (Area 1A) and Mathematical Concepts and Quantitative Reasoning (Area 2) requirements within their first year.

Assessments and Placement for GE Written Communications Has Fulfilled the GE Sub-area 1A English Composition Requirement.

The student has met the requirement via completion of one of the following:

Advanced Placement (AP) Test

- 3 or above: AP Language and Composition
- 3 or above: AP Composition and Literature

College Transfer Coursework

- Completed approved college course that satisfies CSU GE Area 1A (English Composition) with a grade of C- or better

Placement in a GE Sub-area 1A English Composition Course

- The student has met examination standards and/or multiple measures- informed standards via one of the criteria below:

English CAASPP/EAP Test:

- Standard Exceeded
- Standard Met and completed 12th grade approved year-long English course (CSU ERWC, AP, Weighted Honors English) with grade of C- or better

SAT Evidence-Based Reading and Writing Test:

- 550 or above
- 510 – 540 and completed 12th grade approved year-long English course (CSU ERWC, AP, Weighted Honors English) with grade of C- or better English

ACT Test:

- 22 or higher
- 19-21 and completed 12th grade approved year-long English course (CSU ERWC, AP, Weighted Honors English) with grade of C- or better

High School Courses and GPA:

- Weighted GPA 3.3 or above
- GPA 3.0 or above and completed approved 12 grade year-long English course (AP, CSU ERWC, Weighted Honors English)
- GPA 3.0 or above and completed Honors English
- GPA 3.0 or above and 5 or more years of high school English

Placement in a Supported GE Sub-area 1A English Course

- The student has met examination standards and/or multiple measures- informed standards via one of the criteria below:
  - **SAT Evidence-Based Reading and Writing Test:**
    - 510 – 540 and 4 or more years of high school English
  - **ACT Test:**
    - 19-21 and 4 or more years of high school English
  - **High School Courses and GPA:**
    - Weighted GPA 3.0 or above and 4 or more years of high school English
  - **Placement in a Supported GE Sub-area 1A English Course and Participation in the Supportive Pathways for First-Year Students Program.**
  - **Assessments and Placement for GE Mathematics/ Quantitative Reasoning: Non-Math Intensive Majors (Algebra and Statistics Disciplines, Non-STEM and Undecided Majors) Has Fulfilled the GE Sub-area Mathematical Concepts and Quantitative Reasoning Requirement**
    - The student has met the requirement via completion of one of the following:
      - **Advanced Placement (AP) Test:**
        - 3 or above: Calculus AB
        - 3 or above on AP Calculus BC
        - 3 or above on AP Statistics
        - 3 or above on AP Computer Science Principles
      - **International Baccalaureate (IB) Test:**
        - 4 or above on Math Higher Level (HL)
      - **College Level Examination Program (CLEP):**
        - 50 or above on: Calculus, College Algebra, College Algebra-Trigonometry, Pre-Calculus or Trigonometry

- **College Transfer Coursework:**
  - Completed math/quantitative reasoning college course with a C- or better that satisfies CSU GE Area 2

Placement in a GE Sub-area 2 Mathematical Concepts and Quantitative Reasoning

- The student has met examination standards and/or multiple measures-informed standards via one of the following criteria:
  - **CAASPP/EAP Math Exam:**
    - Standard Exceeded
    - Standard Met and completed 12th grade approved year-long math course beyond Algebra 2 with a C- or better
    - Standard Met and 4 or more years of high school math or quantitative reasoning
  - **SAT Math Test:**
    - 570 or above
    - 520 – 560 and completed 12th grade approved year-long math course beyond Algebra 2 with a C- or better
  - **ACT Math Test:**
    - 23 or above
    - 20-22 and completed 12th grade approved year-long math course beyond Algebra 2 with a C- or better
  - **High School Courses and GPA:**
    - Weighted math GPA 3.0 or above and completed 12th grade approved year-long math course beyond Algebra 2 with a C- or better
    - Weighted math GPA 3.0 or above and 5 or more years of high school math or quantitative reasoning
    - Weighted high school GPA 3.7 or above
    - Weighted high school GPA 3.5 or above and 4 or more years of high school math or quantitative reasoning

Placement in a Supported GE Sub-area 2 Mathematical Concepts and Quantitative Reasoning

- The student has met examination standards and/or multiple measures- informed standards via one of the criteria below:
  - **High School GPA:**
    - Weighted math GPA 3.3 or above

Placement in a Supported GE Sub-area 2 Mathematical Concepts and Quantitative Reasoning and Participation in the Supportive Pathways for Frist-Year Students Program Required

Assessments and Placement for GE Mathematical Concepts and Quantitative Reasoning: Pre- STEM/STEM and Other Math-Intensive Majors

Has Fulfilled the GE Sub-area 2 Mathematical Concepts and Quantitative Reasoning Requirement

The student has met the requirement via completion of one of the following:

Advanced Placement (AP) Test:

- 3 or above on AP Calculus AB
- 3 or above on AP Calculus BC
- 3 or above on AP Statistics
- 3 or above on AP Computer Science Principles

International Baccalaureate (IB) Test:

- 4 or above on Math Higher Level (HL)

College Level Examination Program (CLEP):

- 50 or above on: Calculus, College Algebra, College Algebra-Trigonometry, Pre-Calculus or Trigonometry

College Transfer Coursework:

- Completed math/quantitative reasoning college course with a C- or better that satisfies CSU GE Area 2

Placement in a GE Sub-area 2 Mathematical Concepts and Quantitative Reasoning:

The student has met examination standards and/or multiple measures-informed standards via one of the criteria below:

CAASPP/EAP Math Exam:

- Standard Exceeded
- Standard Met and completed 12th grade approved year-long math course beyond Algebra 2 with a C- or better

SAT Math Test:

- 570 or above
- 520 – 560 and completed 12th grade approved year-long math course beyond Algebra 2 with a C- or better

ACT Math Test:

- 23 or above
- 20-22 and completed 12th grade approved year-long math course beyond Algebra 2 with a C- or better

High School Courses and GPA:

- Weighted math GPA 3.5 or above and completed 12th grade approved year-long math course beyond Algebra 2 with a grade of C- or better
- Weighted math GPA 3.5 or above and 5 or more years of high school math or quantitative reasoning
- Weighted high school GPA 3.7 or above

Placement in a Supported GE Sub-area 2 Mathematical Concepts and Quantitative Reasoning

The student has met examination standards and/or multiple measures-informed standards via the criteria below:

High School Math GPA:

- Weighted math GPA 3.3 or above

Placement in a Supported GE Sub-area 2 Mathematical Concepts and Quantitative Reasoning and Participation in the Supportive Pathways for First-Year Students Program Required

- The goal of the Supportive Pathways for First-Year Students Program (SPFY) is to ensure that first-time students successfully complete the General Education (GE) written communication (A2) and math/quantitative reasoning (B4) requirements within their first year.
- Better prepare students in written composition and mathematics/quantitative reasoning before the fall term of freshman year, improving students' chances of successful completion of a baccalaureate degree.
- For general information about Supportive Pathways for First-Year Students Program (SPFYP), visit csustudentsuccess (http://csustudentsuccess.org/supportive-pathways/).org/supportive-pathways (http://csustudentsuccess.org/supportive-pathways/). Students are encouraged to visit the university website for SPFYP information once admitted.
- Eligible financial aid applicants with an Estimated Family Contribution (EFC) of $6,000 or less will be eligible for waiver of the per unit SPFY fee. For more information on assessments, placements, and the Supportive Pathways for First Year Students Program, please visit csustudentsuccess (http://www.csustudentsuccess.org/). (http://www.csustudentsuccess.org/)org (http://www.csustudentsuccess.org/).

Adult Students

As an alternative to regular admission criteria, an applicant who is 25 years of age or older may be considered for admission as an adult student if they meet all of the following conditions:

- Possesses a high school diploma (or has established equivalence through either the General Educational Development or California High School Proficiency Examinations).
- Has not been enrolled in college as a full-time student for more than one term during the past five years.
- If there has been any college attendance in the last five years, has earned a 2.00 GPA or better in all college work attempted.
- Consideration will be based upon a judgment as to whether the applicant is as likely to succeed as a regularly admitted freshman or transfer student and will include an assessment of basic skills in the English language and mathematical computation.

Graduation Requirement in Writing Proficiency

All students must demonstrate competency in writing skills as a requirement for graduation. Information on currently available ways to meet this graduation requirement may be obtained from the Office of the Registrar.

Early Start Program

The Early Start Program serves CSU admitted freshmen who have not demonstrated proficiency in written communication and/or mathematics/quantitative reasoning as determined by systemwide placement standards. Participation in the Early Start Program is required for students needing skills development in these areas; students will be expected to enroll in a written communication course or a mathematics/quantitative reasoning course (but not both) during the summer period prior to the start of the fall term. Students required to participate in the Early Start Program may choose to enroll at any CSU campus; the earned baccalaureate credit will be transferred seamlessly to the student's destination campus.

The goals of the Early Start Program are to:

- Better prepare students in written communication and mathematics/quantitative reasoning before the start of the fall semester of the freshman year;
- Add an important and timely assessment tool in preparing students for college; and
- Improve the opportunity for students to successfully complete their college degrees.

Adult Students

As an alternative to regular admission criteria, an applicant who is 25 years of age or older may be considered for admission as an adult student if he or she meets all of the following conditions:

- Possesses a high school diploma (or has established equivalence through either the General Educational Development or California High School Proficiency Examinations)
- Has not been enrolled in college as a full-time student for more than one term during the past five years
- If there has been any college attendance in the last five years, has earned a 2.00 GPA or better in all college work attempted

Consideration will be based upon a judgment as to whether the applicant is as likely to succeed as a regularly admitted freshman or transfer student and will include an assessment of basic skills in the English language and mathematical computation.

To assess these skills, SAT or ACT scores must be presented prior to determination of admission.

Due to enrollment pressures this option is not available at CSUSB. Adult students are encouraged to meet all standards required for regular admission.

International (Foreign) Student Admission Requirements

The CSU must assess the academic preparation of foreign students. For this purpose, “foreign students” include those who hold U.S. temporary visas as students, exchange visitors, or in other non-immigrant classifications. The CSU uses separate requirements and application filing dates in the admission of “foreign students”. Verification of English proficiency (see the section on the English Language Requirement for undergraduate applicants), financial resources, and academic performance are each important considerations for admission. Academic records from foreign institutions must be on file for the first term and, if not in English, must be accompanied by certified English translations.

Applicants for admission as either graduates or undergraduates whose education has been in another country should file an application for admission, official certificates and detailed transcripts of record from each secondary school and collegiate institution attended several months in advance of the beginning of the term in which the applicant expects to attend. If certificates and transcripts are not in English, they must be accompanied by certified English translations. Credentials will be evaluated in accordance with the general regulations governing admission to California State University, San Bernardino. Priority in admission is

given to residents of California. There is little likelihood of nonresident applicants, including international students, being admitted either to impacted majors or to those campuses with limited openings.

An applicant whose education has been in a language other than English must take the Test of English as a Foreign Language (TOEFL). This test is administered in most countries and official test scores must be received by the university before admission to the university can be granted. Information as to the time and place at which this test is given may be obtained from: Educational Testing Service (TOEFL), Princeton, New Jersey 08540, U.S.A. or TOEFL (http://www.toeflgoanywhere.org/).

International applicants must also submit a statement of financial responsibility to the Center for International Studies & Programs (CISP) (https://www.csusb.edu/cisp/)to be considered for admission to the university. International students are also required to submit evidence of adequate medical/hospital insurance to the international student advisor in CISP.

Arrangements for housing should be completed before the student's arrival on the campus. Detailed information regarding housing may be obtained from the director of H (https://www.csusb.edu/housing/)ousing at California State University, San Bernardino (https://www.csusb.edu/housing/). (https://www.csusb.edu/housing/) Scholarship aid for entering students is limited; no scholarships are specifically reserved for students from another country.

Upon arrival at California State University, San Bernardino, international students should make an appointment with CISP as early as possible.

Insurance Requirement. Effective August 1, 1995, all F-1 and J-1 visa applicants must agree to obtain and maintain health insurance as a condition of receiving an I-20 or DS-2019 form and for registration and continued enrollment in the California State University. Such insurance must be in amounts as specified by the United States Information Agency (USIA) and NAFSA: Association of International Educators. The campus president or designee shall determine which insurance policies meet these criteria. Further information can be obtained from the Center for International Studies & Programs.

English Language Requirement

All undergraduate applicants whose native language is not English, and who have not attended schools at the secondary level or above for at least three years full time where English is the principal language of instruction, must present a score of 61/500 or above on the Test of English as a Foreign Language (TOEFL). Some majors may require a higher score. A few campuses may also use alternative methods of assessing English fluency: Pearson Test of English Academic (PTE Academic), the International English Language Testing System (IELTS), and the International Test of English Proficiency (ITEP). Each campus will post the tests it accepts on its website and will notify students after they apply about the tests it accepts and when to submit scores.

CSU minimum TOEFL standards are:

	Internet	Paper
Undergraduate	61	500
Graduate	80	550

Placement Measures for First-Year GE Written Communication and Mathematics/ Quantitative Reasoning Courses

Freshman skills assessment and placement for general education written communication and mathematics/quantitative reasoning shall be based on systemwide skills assessment standards that include the Early Assessment Program/ Smarter Balanced Achievement Levels, ACT scores and/or SAT scores, high school coursework, high school GPA and math GPA.

Skills assessments are not a condition for admission to the CSU; they are a condition of enrollment.

These skills assessments are designed to inform entering freshmen of placement in appropriate baccalaureate-level courses based on their skills and needs.

First-time freshmen in need of support as determined by the skills assessment will be placed in supported instruction. Supported instruction is designed to assist students in credit bearing courses. Students may also be required to participate in the Supportive Pathways for First-Year Students Program.

- The Supportive Pathways for First-Year Students Programs offers pathways and academic and social support that align with each incoming student's needs. The programs' goal is to ensure that first time students successfully complete the General Education (GE) written communication (A2) and math/quantitative reasoning (B4) requirements within their first year.

Assessments and Placement for GE Written Communications Has Fulfilled the GE Subarea A2 English Requirement

The student has met the requirement via completion of one of the following:

Advanced Placement (AP) Test

- 3 or above: AP Language and Composition
- 3 or above: AP Composition and Literature

College Transfer Coursework

- Completed approved college course that satisfies CSU GE Area A2 (written communication) with a grade of C- or better

Placement in a GE Subarea A2 English Course

- The student has met examination standards and/or multiple measures- informed standards via one of the criteria below:

English CAASPP/EAP Test:

- Standard Exceeded
- Standard Met and completed 12th grade approved year-long English course (CSU ERWC, AP, Weighted Honors English) with grade of C- or better

SAT Evidence-Based Reading and Writing Test:

- 550 or above
- 510 – 540 and completed 12th grade approved year-long English course (CSU ERWC, AP, Weighted Honors English) with grade of C- or better English

ACT Test:

- 22 or higher
- 19-21 and completed 12th grade approved year-long English course (CSU ERWC, AP, Weighted Honors English) with grade of C- or better

High School Courses and GPA:

- Weighted GPA 3.3 or above
- GPA 3.0 or above and completed approved 12 grade year-long English course (AP, CSU ERWC, Weighted Honors English)
- GPA 3.0 or above and completed Honors English
- GPA 3.0 or above and 5 or more years of high school English

Placement in a Supported GE Subarea A2 English Course

The student has met examination standards and/or multiple measures-informed standards via one of the criteria below:

SAT Evidence-Based Reading and Writing Test:

- 510 – 540 and 4 or more years of high school English

ACT Test:

- 19-21 and 4 or more years of high school English

High School Courses and GPA:

Weighted GPA 3.0 or above and 4 or more years of high school English

Placement in a Supported GE Subarea A2 English Course and Participation in the Supportive Pathways for First-Year Students Program

Based on multiple measures evaluation, student needs additional academic support including participation in the Supportive Pathways for First Year Students Program. Visit csustudentsuccess.org to learn about this program.

Assessments and Placement for GE Mathematics/Quantitative Reasoning: Non-Math Intensive Majors (Algebra and Statistics Disciplines, Non-STEM and Undecided Majors) Has Fulfilled the GE Subarea B4 Math/Quantitative Reasoning Requirement

The student has met the requirement via completion of one of the following:

Advanced Placement (AP) Test:

- 3 or above: Calculus AB
- 3 or above on AP Calculus BC
- 3 or above on AP Statistics
- 3 or above on AP Computer Science Principles

International Baccalaureate (IB) Test:

- 4 or above on Math Higher Level (HL)

College Level Examination Program (CLEP):

- 50 or above on: Calculus, College Algebra, College Algebra-Trigonometry, Pre-Calculus or Trigonometry

College Transfer Coursework:

- Completed math/quantitative reasoning college course with a C- or better that satisfies CSU GE Area B4

Placement in a GE Subarea B4 Math/ Quantitative Reasoning Requirement

- The student has met examination standards and/or multiple measures-informed standards via one of the following criteria:

CAASPP/EAP Math Exam:

- Standard Exceeded
- Standard Met and completed 12th grade approved year-long math course beyond Algebra 2 with a C- or better
- Standard Met and 4 or more years of high school math or quantitative reasoning

SAT Math Test:

- 570 or above
- 550 or above on Subject Test in Math Level 1 or 2
- 520 – 560 and completed 12th grade approved year-long math course beyond Algebra 2 with a C- or better

ACT Math Test:

- 23 or above
- 20-22 and completed 12th grade approved year-long math course beyond Algebra 2 with a C- or better
- SAT score conversion for scores prior to March 2016 (old SAT) (https://collegereadiness.collegeboard.org/sat-scoring-before-march-2016/)

High School Courses and GPA:

- Weighted math GPA 3.0 or above and completed 12th grade approved year-long math course beyond Algebra 2 with a C- or better
- Weighted math GPA 3.0 or above and 5 or more years of high school math or quantitative reasoning
- Weighted high school GPA 3.7 or above
- Weighted high school GPA 3.5 or above and 4 or more years of high school math or quantitative reasoning

Placement in a Supported GE Sub-area B4 Math/ Quantitative Reasoning Requirement

The student has met examination standards and/or multiple measures-informed standards via one of the criteria below:

High School GPA:

- Weighted math GPA 3.3 or above
- Weighted high school GPA 3.0 or above

Placement in a Supported GE Sub-area B4 Math/ Quantitative Reasoning Requirement and Participation in the Supportive Pathways for First-Year Students Program Required

Based on multiple measures evaluation, student needs additional academic support including participation in the Supportive Pathways for First-Year Students Program. Visit csustudentsuccess.org to learn about this program.

Assessments and Placement for GE Mathematics/Quantitative Reasoning: Pre-STEM/STEM and Other Math- Intensive Majors

Has Fulfilled the GE Sub-area B4 Math/ Quantitative Reasoning Requirement

The student has met the requirement via completion of one of the following

Advanced Placement (AP) Test:

- 3 or above on AP Calculus AB
- 3 or above on AP Calculus BC
- 3 or above on AP Statistics
- 3 or above on AP Computer Science Principles

International Baccalaureate (IB) Test:

- 4 or above on Math Higher Level (HL)

College Level Examination Program (CLEP):

- 50 or above on: Calculus, College Algebra, College Algebra-Trigonometry, Pre-Calculus or Trigonometry

College Transfer Coursework:

- Completed math/quantitative reasoning college course with a C- or better that satisfies CSU GE Area B4

Placement in a GE Subarea B4 Math/ Quantitative Reasoning Requirement

The student has met examination standards and/or multiple measures-informed standards via one of the criteria below:

CAASPP/EAP Math Exam:

- Standard Exceeded
- Standard Met and completed 12th grade approved year-long math course beyond Algebra 2 with a C- or better

SAT Math Test:

- 570 or above
- 550 or above on Subject Test in Math Level 1 or 2
- 520 – 560 and completed 12th grade approved year-long math course beyond Algebra 2 with a C- or better

ACT Math Test:

- 23 or above
- 20-22 and completed 12th grade approved year-long math course beyond Algebra 2 with a C- or better

High School Courses and GPA:

- Weighted math GPA 3.5 or above and completed 12th grade approved year-long math course beyond Algebra 2 with a grade of C- or better
- Weighted math GPA 3.5 or above and 5 or more years of high school math or quantitative reasoning
- Weighted high school GPA 3.7 or above
- SAT score conversion for scores prior to March 2016 (old SAT) (https://collegereadiness.collegeboard.org/sat-scoring-before-march-2016/)

Placement in a Supported GE Subarea B4 Math/ Quantitative Reasoning Requirement

The student has met examination standards and/or multiple measures-informed standards via the criteria below:

High School Math GPA:

Weighted math GPA 3.3 or above

Placement in a Supported GE Subarea B4 Math/ Quantitative Reasoning Requirement and Participation in the Supportive Pathways for First-Year Students Program Required

Based on multiple measures evaluation, student needs additional academic support including participation in the Supportive Pathways for First Year Students Program. Visit csustudentsuccess.org to learn about this program.

- The goal of the Supportive Pathways for First-Year Students Program (SPFY) is to Ensure that first-time students successfully complete the General Education (GE) written communication (A2) and math/ quantitative reasoning (B4) requirements within their first year
- Better prepare students in written composition and mathematics/ quantitative reasoning before the fall term of freshman year, improving students' chances of successful completion of a baccalaureate degree.
- For general information about Supportive Pathways for First-Year Students Program (SPFYP), visit csustudentsuccess.org/supportive-pathways. Students are encouraged to visit the university website for SPFYP information once admitted.
- Eligible financial aid applicants with an Estimated Family Contribution (EFC) of $6,000 or less will be eligible for waiver of the per unit SPFY fee. For more information on assessments, placements and the Supportive Pathways for First Year Students Program, please visit www.csustudentsuccess.org.

Adult Students

As an alternative to regular admission criteria, an applicant who is 25 years of age or older may be considered for admission as an adult student if they meet all of the following conditions:

1. Possesses a high school diploma (or has established equivalence through either the General Educational Development or California High School Proficiency Examinations).
2. Has not been enrolled in college as a full-time student for more than one term during the past five years.
3. If there has been any college attendance in the last five years, has earned a 2.00 GPA or better in all college work attempted.

Consideration will be based upon a judgment as to whether the applicant is as likely to succeed as a regularly admitted freshman or transfer student and will include an assessment of basic skills in the English language and mathematical computation.

Graduation Requirement in Writing Proficiency

All students must demonstrate competency in writing skills as a requirement for graduation. Information on currently available ways to meet this graduation requirement may be obtained from the Office of Graduate Studies (https://www.csusb.edu/graduate-studies/prospective-students/explore-graduate-education/).

Other Applicants

An applicant who is not admissible under one of the above provisions should enroll in a community college or other appropriate institution. Only under the most unusual circumstances will such applicants be permitted to enroll in the university. Permission is granted only by special action of the university.

The university reserves the right to select its students and deny admission to the university or any of its programs as the university, in its sole discretion, determines appropriate based on an applicant's suitability and the best interest of the university.

Admission as an Auditor

A student who wishes only to audit a course instead of enrolling for credit must complete a statement of residency issued by the Office of the Registrar. Auditors must pay the same fees as would be charged if the courses were taken for credit. See Page 48 for auditing courses.

Admission to Teaching Credential Programs

Admission to the university as a student does not constitute admission to a teaching credential program. Students who intend to pursue work toward credentials should also make application to the College of Education.

Matriculation Policy

An undergraduate student is considered matriculated only if they register, pay fees and do not drop all of their courses prior to census for a given term through the regular campus enrollment. An application and application fee are required if:

1. the student was not matriculated in any of the three terms (not including summer) prior to the term in which they plan to register,
2. the student was enrolled at another four-year institution during an absence from California State University, San Bernardino, and
3. the student has since earned a baccalaureate degree.

Enrollment through Open University, College of Extended and Global Education, or a Visitor program does not constitute regular enrollment.

Returning Students

Undergraduate students in good standing may be readmitted to the university after an absence of one term by notifying the Office of the Registrar (https://www.csusb.edu/registrar/).

The application and fee of $70 are required if the student was not enrolled in any of the three terms (not including summer) prior to the term for which the student is seeking admission or if the student was enrolled in another institution during the absence from California State University, San Bernardino. Enrollment through Open University or the College of Extended and Global Education during fall, winter or spring terms does not constitute enrollment for this purpose. (See Leave of Absence (p. 116).)

Returning students who must reapply must apply during the priority application filing period and be fully eligible as an upper-division transfer student before they will be admitted to CSUSB again.

Readmission of Previously Disqualified Students

After receiving notice of disqualification, a returning student who has applied to CSUSB for a coming term may petition the director of Advising and Academic Services (https://www.csusb.edu/advising/) for readmission to the university on probation. All petitions for readmission must be submitted to the director of Advising and Academic Services (https://www.csusb.edu/advising/) according to the following schedule:

Petition for	Petition on file on or before
Fall	July 1
Winter	December 1
Spring	March 1
Summer	June 1

Transfer of Credit

A maximum of 70 transferable semester units (105 quarter units) of work taken at a community college can be applied toward the requirements for a degree from the university. No upper-division credit will be allowed from courses taken at a community college. No more than six semester units (nine quarter units) in education courses taken at a community college may be applied toward the baccalaureate degree or the professional preparation requirements of a teacher education basic credential program.

The Office of the Registrar will evaluate previous college work to determine its applicability to the requirements of the university. All undergraduate degree candidates will be issued a Program Advising Worksheet for Students (PAWS), indicating which requirements remain unfilled. Once issued to a student, the PAWS remains valid as long as the student matriculates for the term specified, pursues the objective specified, and remains in continuous attendance. Students will not be held to additional graduation requirements unless such requirements become mandatory as a result of changes in the California Code of Regulations or the California Education Code.

Credit for work completed at institutions with regional accreditation will be accepted toward the satisfaction of degree requirements at the university within limitations of residency and major requirements, community college transfer maximums, and course applicability.

Concurrent Enrollment. Once a student has matriculated at this university, transfer courses will only be accepted for credit if the courses

have prior approval on the Concurrent Enrollment for Equivalent Transfer Course(s) form (https://www.csusb.edu/registrar/registration/cross-enrollment/). For complete policy, see Concurrent Enrollment (https://www.csusb.edu/registrar/registration/cross-enrollment/).

Students attending CSUSB on I-20 visas are not eligible for concurrent enrollment. They may, however, participate in the CSU Intrasystem Concurrent program or the UCR/CSUSB Cross Registration Program but must be concurrently enrolled in (and complete) at least 12 units at CSUSB and may only enroll in upper-division courses that are not offered at CSUSB. For more information, see Intrasystem and Intersystem Enrollment Programs or UCR/CSUSB Cross Registration Program.

General Information - Admission and Evaluation of Academic Records

Credit for Standardized External Examinations and Systemwide Examinations

The university shall grant four and a half term units of credit for each of the following College Level Examination Program (CLEP) examinations passed at the 50th percentile, provided the examination was not taken previously within the past term and that degree credit has not been granted for previous course work at the equivalent or at a more advanced level than for the examination in question.

- American Government
- American Literature
- Analyzing and Interpreting Literature
- Biology
- Calculus
- Chemistry
- College Algebra
- College Algebra - Trigonometry
- English Literature
- French, Levels I and II
- German, Levels I and II
- History, United States I and II
- Human Growth and Development
- Humanities
- Introductory Psychology
- Introductory Sociology
- Natural Sciences
- Pre-Calculus
- Principles of Macroeconomics
- Principles of Microeconomics
- Spanish, Levels I and II
- Trigonometry
- Western Civilization I and II

No credit will be granted for CLEP English Composition.

The university may also grant credit and advanced standing for CLEP subject examinations, using as minimum standards:

1. The student submit a score at or above the 50th percentile in the norming group who earned a mark of "C" (2.0) or better;
2. The equivalence to CSUSB courses be determined by the appropriate academic department;
3. College credit shall have not been previously earned in the courses in question.

Questions regarding the acceptance of other standardized external examinations should be directed to the Office of the Registrar (https://www.csusb.edu/registrar/).

In no case will credit awarded through external examinations count towards residency credit.

Credit by Advanced Placement

CSUSB grants credit toward its undergraduate degrees for successful completion of examinations of the Advanced Placement Program of the College Board. Students who present scores of three or better will be granted up to six semester units of college credit. Questions regarding the acceptance of Advanced Placement exams should be directed to the Office of the Registrar (https://www.csusb.edu/registrar/).

Credit by International Baccalaureate

Students who have successfully completed International Baccalaureate exams at the Higher Level (HL) with a score of 4, 5, 6, or 7 may be granted up to nine term units of credit for each successful exam. These units of credit will apply towards graduation, advanced placement in the university's sequence of courses, and credit for curriculum requirements. No credit will be awarded for Subsidiary Level (SL) exams. Test results must be presented to the Office of Admissions and Student Recruitment. Questions regarding the acceptance of International Baccalaureate exams should be directed to the Office of the Registrar (https://www.csusb.edu/registrar/).

Credit for Online/Distance Learning, and Extension Courses

A maximum of number of 24 units of credit earned through extension and on-line courses may be applied to a baccalaureate degree program. A maximum of 8 units of graduate credit earned through extension registration may be accepted toward a master's degree program. No credit so earned may be used to satisfy the university residency requirement.

Matriculated students wanting to take on-line courses must first have the courses approved by following the procedures outlined in the section on Concurrent Enrollment. All examinations for these courses must be proctored by the University Testing Office.

CSUSB accepts only those credits for transfer which are acceptable toward a baccalaureate or master degree or credential at the institution offering the courses.

Credit for Non-Collegiate Instruction

CSUSB grants undergraduate degree credit for successful completion of non-collegiate instruction, either military or civilian, appropriate to the baccalaureate degree, which has been recommended by the Commission on Educational Credit and Credentials of the American Council on Education. The number of units allowed are those recommended in the Guide to the Evaluation of Educational Experience in the Armed Services and the National Guide to Educational Credit for Training Programs.

Students may also challenge courses by taking examinations developed at CSUSB. Credit shall be awarded to those who pass them successfully.

See Credit by Examination under Academic Regulations for more information.

Credit for Military Service

The university grants lower-division undergraduate credit for completion of basic training in the armed forces of the United States. This credit is applied to the Lifelong Understanding area of General Education.

A limited amount of additional credit may be granted to students who have completed certain service schools in addition to basic training. Credit will only be evaluated if needed to fulfill admission requirements or for use toward graduation. Credit is allowed on the basis of recommendations of the Commission on Educational Credit and Credentials of the American Council on Education and must be documented on the Member 4 copy of a DD-214, DD-295 or AARTS (Army/American Council on Education Registry Transcript System) transcript. Credit-based on military rank (MOS) will not be awarded.

The total amount of credit earned on the basis of externally developed tests and through recommendations of the commission, which may be applied to a baccalaureate degree, shall not exceed 45 term units. Advanced placement credit and international baccalaureate credit are excluded from the limit.

High School-University Program

High school students may be considered for enrollment in certain special programs if recommended by the principal and the appropriate campus department chair and if preparation is equivalent to that required of eligible California high school graduates. Such admission is only for a given specific program and does not constitute a right to continued enrollment. For more information, contact the Office of Admissions & Student Recruitment (https://www.csusb.edu/admissions/apply-csusb/non-degree-programs/) at (909) 537-5188.

Fee Waiver Program for California Residents Sixty Years of Age or Older

California State University, San Bernardino offers a program that allows California residents, sixty years of age or older, to enroll in regular session courses without payment of certain specified fees. All regular admission requirements and deadlines must be met. The program is required to adhere to the following standards:

1. enrollment shall be limited to persons who are California residents as defined by the Education Code, are 60 years of age or older, and are eligible for admission to the university, and
2. persons enrolling in the program will be able to register on the last day of registration appointments.

Contact the Office of the Registrar, (909) 537-5200, option 5.

Intrasystem and Intersystem Enrollment Programs

Fully matriculated students enrolled at any CSU have access to courses at other CSUs on a space available basis unless those universities/programs are impacted. This access is offered without students being required to be admitted formally to the host university and in most cases without paying additional fees. Students should consult their home university academic advisors to determine how such courses may apply to their specific degree programs before enrolling at the host university.

There are two programs for enrollment within the CSU and one for enrollment between CSU and the University of California or California Community Colleges. Additional information about these programs is available from the Office of the Registrar (https://www.csusb.edu/registrar/).

CSU Fully Online Courses – Matriculated students in good standing may request enrollment in one course per term, offered by a CSU host university. Enrollment requests will be granted based on available space, as well as completion of any stated pre-requisites. Credit earned at the host university is electronically reported to the student's home university to be included on the student's transcript at the home university.

CSU Visitor Enrollment – Matriculated students in good standing enrolled at one CSU may enroll at another CSU for one term. Credit earned at the host university is reported at the student's request to the home university to be included on the student's transcript at the home university.

Intersystem Cross Enrollment – Matriculated CSU, UC or community college students may enroll on a "space available" basis for one course per term at another CSU, UC, or community college and request that a transcript of record be sent to the home university.

CSU Interim COVID-19 Vaccination Policy

Entering CSU students are required to present proof of the following immunizations to the CSU they will be attending before the beginning of their first term of enrollment.

All individuals who access university/programs must be Fully Vaccinated against the COVID-19 virus, as defined by this policy, subject to the terms and limited Exemptions described in this policy, as well as comply with Other Safety Measures established on each CSU.

A Student may be exempted from the vaccine requirement in this policy as described below:

Medical Exemption: due to a medical (including mental health) condition for which an Approved Vaccine presents a significant risk of a serious adverse reaction. Any medical Exemption must be verified by a certified or licensed healthcare professional.

Religious Exemption: due to either (i) a person's sincerely held religious belief, observance, or practice, which includes any traditionally recognized religion, or (ii) beliefs, observances, or practices which an individual sincerely holds and that occupy a place of importance in that individual's life, comparable to that of traditionally recognized religions.

UCR/CSUSB Cross Registration Program

On a limited basis, students may be permitted to take advantage of courses offered at the nearby University of California campus in Riverside. Note: this opportunity is available only for undergraduate courses not normally offered at CSUSB and is subject to availability of space at UC Riverside after their early registration process is completed. The following conditions apply:

1. A limited number of students may participate.
2. A limit of one course per student per term.
3. The student is matriculated and currently enrolled in a degree program.
4. Students attending CSUSB on I-20 visas may participate, but must be concurrently enrolled in (and complete) at least 12 units at CSUSB,

and may enroll only in upper-division courses that are not offered at CSUSB.

5. Student must pay sufficient (full) tuition fees at the Home Campus. No additional registration fees will be required at the Host Campus.
6. The desired course is not offered at the Home Campus.
7. Student must be in good academic standing.
8. Student must observe all academic deadlines and regulations of the Host Campus.
9. Enrollment is subject to space availability and consent of the instructor.
10. Student must meet course prerequisites of the Host Campus.
11. Records of grades will be maintained by the Host Campus and forwarded to the Home Campus. The Home Campus will include the "transfer" work on the student's transcript, with a footnote indicating that the course was taken through the exchange program.
12. Residence credit will be granted for courses taken by CSUSB students under this arrangement.
13. Cross-registration students will have the use of library facilities at the Host Campus. The student is not eligible for other student services or facilities.

Determination of Residency for Tuition Purposes

University requirements for establishing residency for tuition purposes are independent from requirements for establishing residency for other purposes, such as for tax purposes, or other state or institutional residency. These regulations were promulgated not to determine whether a student is a resident or nonresident of California, but rather to determine whether a student qualifies to pay university fees at the in-state or out-of-state rate. A resident for tuition purposes is someone who meets the requirements set forth in the Uniform Student Residency Requirements. These laws governing residency for tuition purposes at the California State University are California Education Code sections 68000-68086, 68120- 68133, and 89705-89707.5, and California Code of Regulations, Title 5, Subchapter 5, Article 4, sections 41900- 41915. This material can be viewed by accessing the California State University website (http://www.calstate.edu/residency/).

Each CSUs Admissions Office is responsible for determining the residency status of that university's new and returning students based, as applicable, on the student's Application for Admission, Residency Questionnaire, and, as necessary, other information the student furnishes. A student who fails to provide sufficient information to establish resident status will be classified as a nonresident.

Residency Requirements

Initial Determination: Eligible Immigration Status, Physical Presence and Intent

A student seeking to pay in-state tuition at a California State University (CSU) as a first-time freshman, transfer, or as a post-baccalaureate/graduate student must have an eligible immigration status to establish residency (see Eligible Immigration Information), meet physical presence by the Residence Determination Date, and demonstrate intent to indefinitely remain in the State of California for more than one year immediately preceding the Residence Determination Date. If the student is under the age of 19 (with limited exceptions), the student's residence status is derived from that of the parent or from that of the legal guardian.

Requirements for Residency for Tuition Purposes

Eligible Immigration Status

A student seeking to pay in-state tuition at a California State University campus as a first-time freshman, transfer, or post-baccalaureate/graduate student must have an eligible immigration status (https://www.calstate.edu/apply/california-residency-for-tuition-purposes/Documents/Immigration-Statuses.pdf) to establish residency. Therefore, the student must be a United States citizen, a permanent resident (Green Card holder), or hold an eligible visa status (all eligible visas can be found at www.calstate.edu/residency (http://www.calstate.edu/residency/)).

Students in the category of Deferred Action for Childhood Arrivals (DACA), Humanitarian Parole, or Temporary Protected Status (TPS) are also eligible to establish residency for tuition purposes. Also, students who are adjusting their immigration status, such as asylum, may qualify for residency depending on where they are in the application process.

Most non-immigrant visa holders, such as an F-1 or J-1 visa holder, are not eligible to establish California residency for tuition purposes. Students with a visa or without an immigration status should contact the university Admissions Office.

If a student does not qualify as a California resident, the student may be eligible for certain exceptions and exemptions (https://www.calstate.edu/apply/california-residency-for-tuition-purposes/Pages/exceptions-exemptions.aspx), such as California Nonresident Tuition Exemption, commonly known as AB 540. Nonresident students (including US citizens, permanent residents, and undocumented individuals, including students with a T visa U visa, DACA, Humanitarian Parole (certain countries), Special Immigrant Juvenile, asylum, refugee, or Temporary Protected Status) may be exempted from paying nonresident tuition. Students seeking the AB 540 Exemption must satisfy attendance and graduation/transfer requirements from a California school (e.g., K-12, adult school, and community college).

Physical Presence: The student or parent/guardian must be physically present in California for more than one year immediately preceding the Residence Determination Date on which enrollment is considered. For example, if a student plans to attend the CSU for the fall 2026 academic term, and the Residence Determination Date for that term is September 20, 2026, the student must establish physical presence in California no later than September 19, 2025.

Residency Determination Dates

Fall	September 20
Winter	January 5
Spring	January 25
Summer	June 1

Intent: California law stipulates the burden of proof rests with the student, and merely living in California for a year does not support a claim for residency for tuition purposes. The student, or in some cases a parent or legal guardian, must demonstrate intent to remain indefinitely in the state for more than one year immediately preceding the Residence Determination Date (RDD) and sever all residential ties with the former state or country of residence. If the student is under the age of 19, the student's residence status is derived from that of the parent or legal guardian unless an exception applies. There must be sufficient documentation to demonstrate that intent was established more than one year (a minimum of one year and one day) before the RDD.

Documents must include the student's name, the student's California address, and a date at least one year and one day prior or on the RDD for the term. For students under the age of 19, documents must be in the parent or legal guardian's name unless an exception applies. Also, a parent or legal guardian's immigration status does not preclude a student from establishing residency; therefore, the parent or legal guardian is not required to provide any immigration documents to demonstrate intent.

Evidence demonstrating intent to remain in the State of California indefinitely may vary from case to case, but will include, and is not necessarily limited to, the absence of residential ties to any other state, California voter registration and history of actually voting in California elections, maintaining California vehicle registration and driver's license, maintaining active California bank accounts, filing California income tax returns and listing a California address on federal tax returns, owning residential property or occupying or renting a residence where permanent belongings are kept, maintaining active memberships in California professional or social organizations, and maintaining a permanent military address and home of record in California. For a complete list of acceptable supporting documents, please visit www.calstate.edu/residency (http://www.calstate.edu/residency/) under Intent.

Residency Exceptions and Exemptions

Students not classified as California residents for tuition purposes may qualify for an exception or an exemption from payment of nonresident tuition. Exceptions to the general residency requirements are contained in California Education Code sections 68070-68086 and California Code of Regulations, Title 5, Subchapter 5, Article 4, sections 41906- 41906.6, 41910. Whether an exception applies to a particular student can only be determined after the submission of an application for admission and, as necessary, additional supporting documentation. Because neither the university nor the Chancellor's Office staff may give legal advice, applicants are strongly urged to review the material for themselves and consult with a legal advisor.

Fall	September 20
Winter	January 5
Spring	January 25
Summer	June 1

Reclassification - Financial Independence (only applies to continuing students)

A student classified as a nonresident for a prior term may seek reclassification in any subsequent term; however, reclassification requires that, in addition to satisfying the requirements of physical presence and intent to remain indefinitely in the state, the student must also satisfy the requirement of financial independence as outlined in Title 5 CCR § 41905.5. To do so, the student must contact the appropriate person in the university admissions office and complete a Residency Questionnaire Form and provide supporting documents.

41905.5. Residence Reclassification - Financial Independence Requirement

- Any nonresident student requesting reclassification to resident for tuition purposes must demonstrate financial independence or meet one of the criteria to exclude financial independence from reclassification analysis. A student is considered financially independent if all three requirements are met:
  - Student has not and will not be claimed as an exemption for state and federal tax purposes by his/her parent in the calendar year the reclassification application is made and in any of the three calendar years prior to the reclassification application.
  - Student has not and will not receive more than seven hundred fifty dollars ($750) per year in financial assistance from their parent in the calendar year the reclassification application is made and in any of the three calendar years prior to the reclassification application.
  - Student has not lived and will not live for more than six weeks in the home of their parent during the calendar year the reclassification application is made and in any of the three calendar years prior to the reclassification application.

  Note: Students who receive a government scholarship and/or financial assistance should be viewed the same as state and federal financial aid, and athletics grants-is aid; and should not be counted as parental support.

  Effective Fall 2020 academic term, if the student meets at least one of the following criteria, the student does not have to meet the financial independence requirement. Students must provide the university admissions office supporting documents (e.g. state income tax returns, court documents, marriage certificate, military order form) that demonstrate they meet the criteria.

- Dependent on a parent who has California residence for more than one year immediately preceding the residence determination date;
- Enrolled in a graduate or postbaccalaureate program, regardless of age;
- Turned 24 years of age by the residence determination date;
- Married or registered domestic partner as of the residence determination date;
- Active-duty members serving in the U.S Armed Forces;
- Veteran of the U.S. Armed Forces;
- Legal dependent other than spouse or registered domestic partner;
- Former ward of the court, foster youth or both parents are deceased;
- Declared by a court to be an emancipated minor; or
- Unaccompanied youth who are homeless or at risk of becoming homeless.

Residency Appeals

A student classified as a nonresident may appeal a final university decision within 30 days of notification by the university. Appeals will be accepted only if at least one of the following criteria applies:

1. The decisions were based on:
   a. A significant error of fact by the university;
   b. A significant procedural error by the university; or
   c. An incorrect application of the law which, if corrected would require that the student be reclassified as a California resident; and/or
   d. Significant new information, not previously known or available to the student, became available after the date of the university decision classifying the student as a nonresident and based on the new information, the classification as a nonresident is incorrect.

Instructions to submit an appeal and additional information can be found on the California Residency for Tuition Purposes website (http://www.calstate.edu/residency/).

Appeals via email, fax and U.S. mail will not be accepted. A student with a documented disability who is requesting an accommodation to submit an appeal through the California State University (CSU) website (https://www.calstate.edu/) should contact Strategic Enrollment Management at residencyappeals@calstate. (residencyappeals@calstate.edu)edu (residencyappeals@calstate.edu).

The Office of the Chancellor will either decide the appeal or send the matter back to the university for further review.

A student incorrectly classified as a resident or incorrectly granted an exception from nonresident tuition is subject to reclassification as a nonresident or withdrawal of the exception and subject to payment of nonresident tuition in arrears. If incorrect classification results from false or concealed facts, the student may also be subject to discipline pursuant to Section 41301 of Title 5 of the California Code of Regulations. A student previously classified as a resident or previously granted an exception is required to immediately notify the Admissions Office if the student has reason to believe that the student no longer qualifies as a resident or no longer meets the criteria for an exception.

Changes may have been made in the rate of nonresident tuition and in the statutes and regulations governing residency for tuition purposes in California between the time this information is published and the relevant residency determination date. Students are urged to review the statutes and regulations stated above.

Use of Social Security Number

Applicants are required to include their correct social security numbers in designated places on applications for admission pursuant to the authority contained in Section 41201, Title 5, California Code of Regulations, and Section 6109 of the Internal Revenue Code (26 U.S.C. 6109). The University uses the social security number to identify students and their records including identification for purposes of financial aid eligibility and disbursement and the repayment of financial aid and other debts payable to the institution. Also, the Internal Revenue Service requires the University to file information returns that include the student's social security number and other information such as the amount paid for qualified tuition, related expenses, and interest on educational loans. This information is used by the IRS to help determine whether a student, or a person claiming a student as a dependent, may take a credit or deduction to reduce federal income taxes.

Reservation

The University reserves the right to select its students and deny admission to the University or any of its programs as the University, in its sole discretion, determines appropriate based on an applicant's suitability and the best interests of the University.

Appeal of Admission Decision

Section 89030.7 of the California Education Code requires that the California State University establishes specific requirements for appeal procedures for a denial of admission. Each CSU campus must publish appeal procedures for applicants denied admission to the University. The procedure is limited to addressing campus decisions to deny an applicant admission to the University.

Admissions appeal procedures must address the basis for appeals, provide 15 business days for an applicant to submit an appeal, stipulate a maximum of one appeal per academic term, provide specific contact information for the individual or office to which the appeal should be submitted, and indicate a time estimate for when the campus expects to respond to an appeal. The appeal procedures must be included in all denial of admission notifications to students, and must also be published on the campus website.

CSUSB is an impacted campus, so out of local area and/or specific program admissions criteria may apply. Applicants who are denied admission to CSU San Bernardino may appeal the decision no more than 15 business days after the date the applicant was or should have reasonably been notified of denial by the Admissions Office. Applicants are to submit the electronic appeal request form through links provided in all denial communications as well as on the CSUSB Admissions (https://www.csusb.edu/admissions/) website. If documentation is received, appeals will be reviewed and answered within 15 business days after the request for appeal has been received by the Admissions Office.

The basis of appeal may include the following:

1. Credit not considered during the initial review of the application
2. Miscalculation of transferable college credit
3. Applied to an impacted major and wish to be reconsidered to another major
4. Special/extenuating circumstances

Applicants are limited to one appeal per term.

Campus Tours

Office of Admissions and Student Recruitment (https://www.csusb.edu/admissions/visit-csusb/)
(909) 537-5188 tours@csusb.edu

Tours of the Cal State campus are available throughout the year for individuals or groups. Student visitors interested in acquiring firsthand information about the university's programs or classes may request a meeting with faculty or an admissions counselor. Arrangements can be made to visit the residence halls.

CSU Application Filing Periods

All graduate and post-baccalaureate applicants (i.e., doctorate, joint Ph.D. applicants, master's degree applicants, those seeking educational credentials or certificates and, where permitted, holders of baccalaureate degrees interested in taking courses for personal or professional growth or seeking a second bachelor's degree) must file a complete graduate application as described in the graduate and post-baccalaureate admission materials on the Cal State Apply website (https://www.calstate.edu/apply/?utm_source=google&utm_medium=performance-max&utm_campaign=ss23-engage). Applicants who completed undergraduate degree requirements in the preceding term are also required to complete and submit an application and the $70 nonrefundable application fee. To be assured of initial consideration by more than one CSU, it is necessary to submit separate applications (including fees) to each. All CSU applications must be submitted online via the Cal State Apply website (https://www.calstate.edu/apply/?utm_source=google&utm_medium=performance-max&utm_campaign=ss23-engage). An acknowledgement will be sent to the applicant when the online application has been submitted.

Terms	Applications first accepted	Initial Filing Period
Summer	February 1	February 1-28
Fall	October 1	Oct. 1-Nov 30.
Spring	July 1	July 1-31

Each non-impacted university accepts applications until capacities are reached. Many universities limit undergraduate admission in an enrollment category due to overall enrollment limits. If applying after the initial filing period, consult the university admission office for current information.

Fall 2027 applicants may begin accessing the application on August 1. Completed applications can be submitted starting October 1.

Graduate and Post-Baccalaureate Admission Requirements

Application Acknowledgement

Graduate and post-baccalaureate applicants may apply for a degree objective, a credential or certificate objective, or where approved, may have no program objective. Depending on the objective, the CSU will consider an application for admission as follows:

Admissions Requirements

Graduate and post-baccalaureate applicants may apply for a degree objective, a credential or certificate objective, or where approved, may have no program objective. Depending on the objective, the CSU will consider an application for admission as follows:

- General Requirements — The minimum requirements for admission to graduate and post-baccalaureate studies at a CSU are in accordance with university regulations as well as Title 5, Chapter 1, Sub-chapter 3 of the California Code of Regulations.

  Specifically, a student shall at the time of enrollment:

  a. Have completed a four-year college course of study and hold an acceptable baccalaureate degree from an institution accredited by a regional accrediting association, or shall have completed equivalent academic preparation as determined by appropriate university authorities;
  b. Be in good academic standing at the last college or university attended;
  c. Have earned a grade point average of at least 2.5 on the last degree completed by the candidate or have attained a grade point average of at least 2.5 (A=4.0) in the last 60 semester (90 quarter) units attempted; and
  d. Satisfactorily meet the professional, personal, scholastic, and other standards for graduate study, including qualifying examinations, as appropriate university authorities may prescribe. In unusual circumstances, a university may make exceptions to these criteria.
- Students who meet the minimum requirements for graduate and post-baccalaureate studies may be considered for admission in one of the four following categories:
  a. Graduate Classified – To pursue a graduate degree, applicants are required to fulfill all of the professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the university; or
  b. Graduate Conditionally Classified – Applicants may be admitted to a graduate degree program in this category if, in the opinion of appropriate university authority, deficiencies may be remedied by additional preparation; or
  c. Post-Baccalaureate Classified (e.g., admission to an education credential program) – Persons wishing to enroll in a credential or certificate program will be required to satisfy additional professional, personal, scholastic, and other standards, including qualifying examinations, prescribed by the university; or
  d. Post-Baccalaureate Unclassified – To enroll in undergraduate courses as preparation for advanced degree programs or to enroll in graduate courses for professional or personal growth, applicants must be admitted as post-baccalaureate unclassified students. By meeting the general requirements, applicants are eligible for admission as post-baccalaureate unclassified students. Admission in this status does not constitute admission to, or assurance of consideration for admission to, any graduate degree or credential program. (Most CSUs do not offer admission to unclassified postbaccalaureate students).

(These and other CSU admission requirements are subject to change as policies are revised and laws are amended. The CSU website and the CSU admission portal are good sources for the most up-to-date information.)

Graduate and Post-Baccalaureate English Language Requirement

All graduate and post-baccalaureate applicants, regardless of citizenship, whose native language is not English and whose preparatory education was principally in a language other than English must demonstrate competence in English. Those who do not possess a bachelor's degree from a postsecondary institution where English is the principal language of instruction must receive a minimum score of **550** on the Test of English as a Foreign Language (TOEFL). Some programs require a higher score. Several CSUs may use alternative methods for assessing fluency in English including Pearson Test of English Academic (PTE Academic), the International English Language Testing System (IELTS) and the International Test of English Proficiency (ITEP).

Returning Students

Visit the Office of Admissions (https://www.csusb.edu/admissions/apply-csusb/returning-students/) for information on returning students.

International (Foreign) Student Admission Requirements

The CSU must assess the academic preparation of foreign students. For this purpose, "foreign students" include those who hold U.S. temporary visas as students, exchange visitors or in other nonimmigrant classifications.

The CSU uses separate requirements and application filing dates in the admission of foreign students. Verification of English proficiency (see the section on the English Language Requirement for undergraduate applicants), financial resources, and academic performance are each important considerations for admission. Check the Application & Document Deadlines website (https://www.csusb.edu/international-education/international-admissions/application-document-deadlines/) to ensure deadlines for Academic records from foreign institutions are on file in time for the first term and, if not in English, must be accompanied by certified English translations.

Intrasystem and Intersystem Enrollment Programs

Fully matriculated students enrolled at any CSU have access to courses at other CSUs on a space available basis unless those universities/programs are impacted. This access is offered without students being required to be admitted formally to the host university and in most cases without paying additional fees. Students should consult their home university academic advisors to determine how such courses may apply to their specific degree programs before enrolling at the host university.

There are two programs for enrollment within the CSU and one for enrollment between CSU and the University of California or California Community Colleges. Additional information about these programs is available from the Office of the Registrar (https://www.csusb.edu/registrar/).

CSU Fully Online Courses – Matriculated students in good standing may request enrollment in one course per term, offered by a CSU host university. Enrollment requests will be granted based on available space, as well as completion of any stated pre-requisites. Credit earned at the host university is electronically reported to the student's home university to be included on the student's transcript at the home university.

CSU Visitor Enrollment – Matriculated students in good standing enrolled at one CSU may enroll at another CSU for one term. Credit earned at the host university is reported at the student's request to the home university to be included on the student's transcript at the home university.

Intersystem Cross Enrollment – Matriculated CSU, UC or community college students may enroll on a "space available" basis for one course per term at another CSU, UC, or community college and request that a transcript of record be sent to the home university.

General Education Program

Requirements (43 units)

General Education (GE) at CSUSB fosters intellectual rigor and exploration whereby students understand and investigate the foundations and consequences of ideas, theories, beliefs, and expressions. The program uses a multidisciplinary approach to encourage ongoing and self-motivated learning and to inform student creativity, reasoning, decision-making, expression, and responsible action. The GE program promotes curriculum choices that attend to the developmental nature of general education and student learning. Through multiple experiences with General Education Learning Outcomes (GLOs), and curriculum that leads to an inquiry in context students move from seekers and knowers to makers and doers.

By engaging in the breadth provided by GE students can find passions outside of major study areas and inspire life long learning. GE supports students both by preparing them to understand what it is to be a college level learner, and enabling students to be life long problem solvers able to bring the integration of knowledge together understanding the challenges and successes of modern society.

The general education requirements at California State University, San Bernardino are designed to assure that all graduates of the university, whatever their major, have acquired certain essential skills and a broad range of knowledge appropriate to educated persons in our society based on the following GE student learning outcomes:

1. Learning How to Learn/Metacognition
2. Thinking Critically
3. Critical Literacies - Information Literacy
4. Critical Literacies - Oral Communication
5. Critical Literacies - Written Communication
6. Critical Literacies - Quantitative Reasoning
7. Critical Literacies - Technological Literacy
8. Diverse Perspectives
9. Global Perspectives
10. Integrative Learning
11. Ethical Responsibility
12. Collaboration

For more information on the GLOs visit https://www.csusb.edu/general-education/general-education-learning-outcomes-glos (https://www.csusb.edu/general-education/general-education-learning-outcomes-glos/).

Lower-division foundation courses are intended to foster an ability to think clearly and logically, to find and critically examine information, and to communicate orally and in writing as life long problem solvers; to acquaint students with the physical universe and its life forms and to impart an understanding of scientific methodology and of mathematical concepts and quantitative reasoning; to cultivate-through the study of philosophy, literature, languages, and the arts-intellect, imagination, sensibility and sensitivity; and to deal with human social, political and economic institutions and their historical background, with human behavior, the principles of social interaction, and a commitment to diversity, equity, and inclusion. Upper-division courses include a further exploration of disciplinary perspectives across fields providing a breadth of knowledge for CSUSB graduates.

In addition to foundation courses and upper-division disciplinary perspectives, designation requirements in the areas of diversity and inclusiveness, global perspectives, and writing provide students with knowledge in areas critical to global citizenry and central to the values of CSUSB. Designations overlay lower and upper-division GE courses. Students are required to complete one (1) diversity and inclusiveness (DI) course, one (1) global perspectives (G) course, and two (2) writing-intensive (WI) courses.

The GE program at CSUSB includes unique elements or signature features to enhance the student experience through opportunities for high engagement.

Foundation Seminar

This seminar, intended for first-year students, introduces them to the idea of academic inquiry and explores different disciplinary ways of knowing and doing, with attention to the metacognitive elements of learning. Students develop a sense of their role as a college-level learner. The foundation seminar is part of the GE requirements in Category 1B (Critical Thinking).

Please see the section on Foundation Seminar for more information.

Designations

CSUSB is committed to student learning experiences in diversity and inclusiveness, global perspectives, and written communication. Designated courses build on developmental opportunities in the GE program by requiring students to take courses with a central focus in these areas. The course requirements are designed to provide comprehensive opportunities for students in the areas of Diversity and Inclusiveness, Global Perspectives, and Written Communication. The designations overlay GE requirements across GE categories and can be completed with the same courses that complete GE requirements, with a few options outside of GE Students are strongly encouraged to make GE selections that complete the GE requirements AND designations with the same class to avoid the need for additional unit requirements to complete the designations.

Please see the section on Designations for more information.

Pathways

Students may elect to further engage in general education through thematic pathways that provide integrative experiences based on interest in themes addressing modern societal issues. The Pathways program is optional but allows a student to complete GE requirements studying a common topic with the possibility of obtaining a minor through GE. Pathways can be completed as part of the unit requirements within GE.

Please see the section on GE Pathways and GE Minors for more information.

Substitutions

No substitutions in the general education program are possible without prior approval of a petition submitted to the Office of Academic Success & Undergraduate Advising. **Substitutions are rarely approved**.

Some majors require specific GE courses. Students should consult the catalog for their major's requirements or contact the department.

GE requirements equal to 43 units. Students must complete each category to complete GE.

Requirements for Lower-division General Education Program

Area 1

Area 1A: English Communication

Minimum grade of C- (1.70) required in this area.

Choose three units from:

ENG 1060A	Stretch Composition II	3
ENG 1060B	Stretch Composition II for Multilingual Students	3
ENG 1070A	First-Year Composition	3
ENG 1070B	First-Year Composition for Multilingual Students	3
HON 1100	Writing Rhetorically	3

Area 1B: Critical Thinking

Minimum grade of C- (1.70) required in this area.

Choose three units from:

COMM 1007	Critical Thinking Through Argumentation	3
CSE 1100	Critical Thinking Through Computer Programming	3
HON 1200	Thinking Critically	3
MATH 1501	Critical Thinking Through Applications of Mathematical Logic	3
PHIL 1005	Critical Thinking Through Argument Analysis	3
PHIL 2100	Critical Thinking Through Symbolic Logic	3
PSYC 1105	Critical Thinking in Everyday Life	3
SOC 1800	Critical Thinking about Social Issues	3

Area 1C: Oral Communication

Minimum grade of C- (1.70) required in this area.

Choose three units from:

COMM 1006	Oral Communication	3
HON 1300	Communicating Orally	3

Area 2: Mathematical Concepts & Quantitative Reasoning

Minimum grade of C- (1.70) required in this area.

Choose three units from:

CSE 1300	Introduction to Data Science	3
MATH 1101	Mathematics and Society	3
MATH 1103	Stretch Mathematics and Society B	3
MATH 1104	Mathematics and Society with Support Lab	4
MATH 1201	Introduction to Statistical Thinking	3
MATH 1203	Stretch Introduction to Statistical Thinking B	3
MATH 1204	Introduction to Statistical Thinking with Support Lab	4
MATH 1301	Modeling with Functions	3
MATH 1303	Stretch Modeling with Functions B	3
MATH 1304	Modeling with Functions with Support Lab	4
MATH 1401	Accelerated Preparation for Calculus	4
MATH 1402	Preparation for Calculus A	3
MATH 1403	Preparation for Calculus B	3
MATH 1601	Modeling with Calculus	3
MATH 2210	Calculus I	4

Area 3: Arts & Humanities

Area 3A: Arts

Choose three units from:

ART 1200	Creativity, Imagination, and the Consciousness	3
ART 2400	Introduction to Chicanx Art	3
CAL 1500	Digital Humanities and Arts	3
CAL 1804	Rock and Roll: Justice and Society	3
COMM 1020	Looking at Movies	3
MUS 1800	Music Appreciation	3
MUS 1865	Global Hip Hop	3
MUS 1969	LGBTQ+ Influences in Music	3
MUS 2266	Creating Digital Media Using Personal Electronic Technology	3
TA 2640	Acting for All Majors	3
TA 2660	Introduction to Theatre	3

Area 3B: Humanities

Choose three units from:

ARAB 1112	Beginning Arabic 2	3
ARAB 2900	Arabic Literature in Translation	3
ASL 1112	American Sign Language II	3
CAHU 1112	Language Study II: Cahuilla	3
CHIN 1112	College Chinese II	3
CHIN 2000	Introduction to Chinese Civilization	3
CHIN 2900	Chinese Literature in Translation	3
ENG 1120	Speculative Fiction: Science Fiction, Horror, Fantasy	3
ENG 1200	Multi-Ethnic American Literature	3
ENG 1210	Diversity Literature and Social Justice	3
ENG 1700	Studies in Literature and Creative Writing	3
ENG 2180	The Function of Stories	3
FREN 1112	Beginning French 2	3
FREN 2900	French Literature and Film in English	3
HON 1400	Constructing Knowledge	3
JAPN 1112	Beginning Japanese II	3
JAPN 2900	Japanese Literature in English	3
KOR 1112	Beginning Korean 2	3

KOR 2900	Korean Literature in English	3
LUIS 1112	Language Study II: Luiseño	3
MUS 1270	History of Electronic Music	3
MUS 1880	Asian American Music	3
PHIL 1011	Introduction to Philosophy	3
or PHIL 1011H	Honors Introduction to Philosophy	
PHIL 1012	Introduction to Ethics	3
or PHIL 1012H	Honors Introduction to Ethics	
PHIL 1013	Introduction to Philosophy of Religion	3
PHIL 1014	Introduction to Asian Philosophy	3
PHIL 1015	Introduction to Knowledge and Reality	3
or PHIL 1015H	Honors Introduction to Knowledge and Reality	
PHIL 1016	Introduction to Latin American Philosophy	3
PORT 1112	Language Study II: Portuguese	3
SERR 1112	Language Study II: Serrano	3
SPAN 1112	College Spanish 2	3
SPAN 2900	Spanish Literature and Film in English	3
TA 1160	All the World's A Stage: A Tour of Global Performance	3
TA 2612	Oral Interpretation of Literature	3
WLL 1112	Indigenous Language Study 2	3

Area 4: Social & Behavioral Sciences

Choose three units from:

HIST 1460	History of the United States: Pre-Colonization to Present	3
HIST 1460H	Honors History of the United States: Pre-Colonization to Present	3
HIST 2000	United States History to 1877	3
HIST 2010	United States History, 1877 to the Present	3
PSCI 2030	Government of the United States	3
PSCI 2030H	Government of the United States--Honors	3

Choose three units from: 3

ANTH 1002	Understanding Cultural Diversity	3
ANTH 1400	World History to c. 1500	3
CAFS 2240	Introduction to Child Development	3
COMM 1000	Critical Media Literacies: News, Entertainment, and Participatory Culture	3
ECON 2000	The Economy: Problems and Perspectives	3
ECON 2202	Principles of Macroeconomics	3
GEOG 1010	Introduction to Human Geography	3
GEOG 1650	World Regions and Peoples	3
GEOG 2000	Environment and Society	3
GSS 1000	Introduction to Women's Studies	3
GSS 1010	Introduction to Masculinity Studies	3
GSS 1030	Introduction to Lesbian, Gay, Bisexual, Transgender, and Queer Studies	3
HIST 1400	World History to c. 1500	3
HIST 1440	World History from c.1500	3
LAS 2000	Introduction to Latin American Studies	3
PSCI 1000	Introduction to Politics	3
PSYC 1100	Introduction to Psychology	3
SOC 1000	Introduction to Sociology	3

Area 5: Physical & Biological Sciences

Area 5A: Physcial Science

Choose three units from: 3

ASTR 1000	Introduction to Planetary Astronomy	3
ASTR 1010	Introduction to Galaxies and Cosmology	3
CHEM 1000	Introduction to Chemistry	3
CHEM 2050	Survey of General Chemistry	3
CHEM 2070	Fundamentals of General, Organic, and Biochemistry +	5
CHEM 2100	General Chemistry I	4
GEOG 1030	Physical Geography	3
GEOG 2040	Water in the West	3
or GEOL 2040	Water in the West	
GEOL 1000	Introductory Geology	3
GEOL 1020	Plate Tectonics: Key to Understanding Earthquakes, Volcanoes and Tsunami	3
GEOL 1060	Environmental Geology and Geological Hazards	3
GEOL 1090	Earth: The Blue Planet +	4
NSCI 2020	The Science of Cooking	3
PHYS 1000	Physics in the Modern World	3
PHYS 2000	Introduction to Physics I	4
PHYS 2500	General Physics I	4

Area 5B: Biological Science

Choose three units from:

ANTH 1001	Humans, Apes, and Monkeys: Introduction to Biological Anthropology	3
BIOL 1000	Introduction to Biology	3
BIOL 1010	Biology for Teachers	4
BIOL 2010	Principles of Biology I	5
BIOL 2160	Genetics and Society	3
BIOL 2170	Biology of Diseases	3
BIOL 2180	Sustainable Agriculture	3
BIOL 2240	Human Anatomy and Physiology II for Allied Health Majors	4
HSCI 1200	Health and Society: An Ecological and Societal Approach	3
KINE 2010	Introduction to Physical Activity and Health Promotion	3

Area 5C: Labratory

Choose one unit from:

ASTR 1000L	Introduction to Planetary Astronomy Lab	1
ASTR 1010L	Introduction to Galaxies and Cosmology Lab	1
BIOL 1000L	Introduction to Biology Lab	1
CHEM 1000L	Introduction to Chemistry Laboratory	1

CHEM 2050L	Survey of General Chemistry Laboratory	1
CHEM 2100L	General Chemistry I Laboratory	1
CSE 1110L	Data Analysis Laboratory Using Spreadsheets	1
CSE 1120L	Scientific Simulation	1
GEOG 1030L	Physical Geography Laboratory	1
GEOL 1000L	Introductory Geology Laboratory	1
GEOL 1060L	Environmental Geology and Geological Hazards Laboratory	1
HSCI 1200L	Health and Society: An Ecological and Societal Approach Lab	1
KINE 2010L	Introduction to Physical Activity and Health Promotion Laboratory	1
PHYS 1000L	Physics in the Modern World Lab	1
PHYS 2000L	Introduction to Physics I Lab	1
PHYS 2500L	General Physics I Lab	1

Area 6: Ethnic Studies

Choose three units from:

ES 1000	Introduction to Ethnic Studies	3
ES 1000H	Introduction to Ethnic Studies: HONORS SECTION *	3
ES 1400	Race, Class, Gender and Sexuality	3
ES 2200	Women of Color Feminisms	3
ES 3100	Black Feminist Movements	3

* Open only to students accepted into the University Honors Program (https://www.csusb.edu/honors-program/).

\+ Course also satisfies GE category 5C.

Requirements for Upper-division General Education Program

UD-2/5: Upper-division Mathematical Concepts/Quantitative Reasoning or Science

Choose three units form:

ASTR 3000	Life in the Cosmos	3
BIOL 3010	Human Ecology	3
BIOL 3030	History of Life on Earth	3
or GEOL 3030	History of Life on Earth	
CHEM 3000	History of Science and Technology	3
CHEM 3100	Chemistry and the Environment	3
GEOL 3020	Natural Disasters	3
GEOL 3040	Energy and the Environment	3
HON 3150	Natural Sciences and the Humanities Praxis *	3
HON 3200	Social Sciences and Natural Sciences Seminar *	3
HON 3520	Multidisciplinary Approaches in the Natural Sciences	3
HOSM 5400	The Art and Science of Wine	3
HSCI 3051	Health and Human Ecology	3
KINE 3000	Exercise and well-being of the human body	3
MATH 3140	Introduction to Systems Modeling	3
MUS 3007	Synthesizing Sound: The Art and Science of Audio Programming	3
NSCI 3001	Scientific Perspectives on Global Challenges	3
NSCI 3250	Perspectives on Gender	3
NURS 4222	Nursing Research and Evidence-Based Practice	3
PHYS 3000	Pop Culture Physics	3
PHYS 3010	The Science of Digital Sound and Music	3
Total Units		**60**

UD-3: Upper-division Arts or Humanities

Choose three units from:

AH 3210	Visualizing Gender, Performing Identity	3
AH 3310	Asian Contemporary Art	3
AH 3350	Contemporary Art and Culture of the Americas	3
ARAB 3900	Female Voices in Arab American Literature	3
ARAB 4900	Voices and Visions from the Arab World	3
ART 3000	Art and Activism	3
CAL 3250	Perspectives on Gender	3
CAL 3300	Arts and Ideas in A Changing Global World	3
CAL 3350	Latinx Border Identity: A Transmedia Perspective	3
CAL 3400	Enduring Questions in Literature, Culture, and Society	3
CAL 3440	Ideas in American Literature and Culture	3
CAL 3550	LGBTQ+ Issues in the Humanities	3
CAL 3700	African Arts Heritage	3
CAL 3750	Exploring the World of Islam	3
CAL 3888	Asian Humanities in a Globalized World	3
COMM 3332	Movies in the Digital Age	3
COMM 3334	Global Cinema	3
COMM 3336	Queer Cinema	3
DES 3001	Innovator's ToolBox - An Introduction to Creative Problem Solving and Design Thinking	3
ENG 3000	Studies in Global Literatures	3
ENG 3140	Native American and Indigenous Literatures	3
ENG 3200	Literature for Children and Young Adults	3
ENG 3400	Analysis of Environmental Discourse	3
ENG 3410	Environmental Literature	3
ENG 3700	Turning Points in Literary History	3
ENTR 3141	The Improvisational Mind	3
FREN 3900	Voices & Visions from the French-Speaking World	3

HIST 3380	Ancient Egyptian Art	3
HIST 3890	Images of Africa	3
HON 3100	Natural Sciences and the Humanities *	3
HON 3300	Social Science and the Humanities Seminar *	3
HON 3510	Multidisciplinary Approaches in the Arts and Humanities	3
JAPN 3900	Voices & Visions from the World of Japanese Anime and Manga	3
MUS 3080	Women in Music	3
MUS 3309	Jazz History in America and African-American Culture	3
MUS 3500	Global Music	3
MUS 3510	Latin American Music	3
MUS 3650	Music for the Screen	3
MUS 3670	Music in Video Games	3
PHIL 3006	Philosophy in Children's Literature	3
PHIL 3007	Philosophy in Young Adult Literature	3
PHIL 3008	Philosophy in World Literature	3
PHIL 3010	Truth, Lies and Bullshit	3
PHIL 3011	Philosophy of Race	3
PHIL 3012	Philosophy of Gender	3
PHIL 3013	Human Rights & Global Citizenship	3
PHIL 3014	Environmental Ethics	3
PHIL 3015	Roots and Results of Democracy	3
PHIL 3016	Real Ethics in a Virtual World	3
PHIL 3017	Scientific Revolutions	3
PHIL 3018	Biomedical Ethics	3
PHIL 3019	Happiness	3
PHIL 3020	Philosophy of Hip Hop	3
PHIL 3025	Marginalized in America	3
PHIL 3026	Philosophy of Disability	3
PHIL 3027	Science Fiction and Philosophy	3
PHIL 3040	Philosophy and Film	3
SPAN 3900	Voices & Visions from the Hispanic World	3
TA 3141	The Improvisational Mind	3
TA 4663	Dramatic Literature of Identity	3
WLL 3920	Great Works, Revolutionary Ideas, and Important Discoveries	3
WLL 3940	Mediterranean Languages and Identities	3
WLL 3950	Languages & Cultures	3

UD-4: Upper-division Social & Behavioral Sciences

Choose three units from:

ANTH 3500	The Race Concept in Biological Anthropology	3
ANTH 3603	Gendered Worlds: Power, Difference, and & In/equality	3
ANTH 3703R	Anthropology of Asia: Cultures, Communities, and Migration	3
ANTH 3705R	Anthropology of Africa	3
CJUS 4451	Women and Crime	3
COMM 3236	Health Communication	3
COMM 3305	Digital Media and Society	3
ECON 3101	Political Economy of Southern California	3
GEOG 3501	Environmental Sustainability	3
GEOG 5150	Global Governance and the United Nations System	3
GSS 4200	Feminist Theory	3
GSS 4500	Queer Theory	3
HON 3250	Social Sciences and Natural Sciences Praxis *	3
HON 3350	Social Science and the Humanities Praxis *	3
HON 3530	Multidisciplinary Approaches in the Social Sciences	3
KINE 3050	Disability, Society and Physical Activity	3
MUS 3760	Psychology of Music	3
NURS 4417	Community & Public Health Nursing Practice	5
NURS 4510	Community/Public Health Promotion	3
PA 3150	Society, Business, & Global Governance	3
SOC 3410	The African American Family	3
SOC 4420	The Latino Experience in the U.S.	3
SSCI 3000	Global Issues and Perspectives	3
SSCI 3001	Global Issues and Perspectives	3
SSCI 3010	Revolutions and Revolutionary Ideas	3
SSCI 3011	Revolutions and Revolutionary Ideas	3
SSCI 3160	Race and Racism	3
SSCI 3250	Perspectives on Gender	3
SSCI 3320	Understanding Capitalism	3
SSCI 3390	Climate Change	3

* Open only to students accepted into the University Honors Program (https://www.csusb.edu/honors-program/).

History, Constitution, Government Requirement

Each student must demonstrate competence in understanding the Constitution of the United States; American history, institutions, and ideals; and state and local government principles as established in California.

The requirement in the U.S. Constitution may be met by completing one of the following (or both HIST 2000 and HIST 2010, if taken at CSUSB):

HIST 1460	History of the United States: Pre-Colonization to Present	3
HIST 1460H	Honors History of the United States: Pre-Colonization to Present *	3
HIST 2000 & HIST 2010	United States History to 1877 and United States History, 1877 to the Present	6

HIST 5400	Constitutional History of the United States	3
PSCI 2030	Government of the United States	3
PSCI 2030H	Government of the United States--Honors *	3
PSCI 4100	American Constitutional Law	3
PSCI 4110	The Bill of Rights	3

The requirement in U.S. History may be met by completing one of the following:

HIST 1460	History of the United States: Pre-Colonization to Present	3
HIST 1460H	Honors History of the United States: Pre-Colonization to Present *	3
HIST 2000	United States History to 1877	3
HIST 2010	United States History, 1877 to the Present	3
HIST 5400	Constitutional History of the United States	3
PSCI 3140	American Political Thought	3

The requirement in state and local government as established in California may be met by completing one of the following:

HIST 2700	California History	3
HIST 3700	History of California	3
PSCI 2030	Government of the United States	3
PSCI 2030H	Government of the United States--Honors *	3
PSCI 3300	State and Local Politics	3

* Open only to students accepted into the University Honors Program (https://www.csusb.edu/honors-program/).

Note: General Education credit is only granted for the following: HIST 1460, HIST 1460H, HIST 2000, HIST 2010, PSCI 2030, and PSCI 2030H. Students must complete the U.S. Constitution, U.S. History, and California state and local government requirements to graduate. One of these requirements may be completed with a course in area 4. The remaining course(s) are part of the graduation requirements, separate from GE.

Foundation Seminar

The Foundation Seminar is a critical offering preparing students for their developmental journey as college-level learners. It is designed to be a first-year learning experience providing an introduction to GLOs and learning principles critical to becoming life-long learners. Courses in this category will blend the structure of a first-year seminar that introduces students to academic inquiry and explores different disciplinary ways of knowing and doing. This includes an overview of what it is to be a college student and develops a sense of social belongingness for every student joining CSUSB. The seminar continues the encouragement for engagement initiated during student orientation. Courses in Category 1B must fulfill the Metacognition – learning how to learn GLO, Thinking Critically GLO, Ethical Responsibility GLO, and Collaboration GLO.

COMM 1007	Critical Thinking Through Argumentation
CSE 1100	Critical Thinking Through Computer Programming
HON 1200	Thinking Critically
MATH 1501	Critical Thinking Through Applications of Mathematical Logic
PHIL 1005	Critical Thinking Through Argument Analysis
PHIL 2100	Critical Thinking Through Symbolic Logic
PSYC 1105	Critical Thinking in Everyday Life
SOC 1800	Critical Thinking about Social Issues

General Education Minors

GE minors are interdisciplinary minors related to the GE Pathway program. Students making course choices based on integrative pathways may complete the pathway by following the requirements for the related minor. GE minors are reflected on student transcripts demonstrating a study concentration on the world issues related to the pathways.

- GE Minor: Digital Literacies (p. 59)
- GE Minor: Diversity and Social Justice (p. 59)
- GE Minor: Environmental Sustainability (p. 60)
- GE Minor: Foundations of Change & Discovery (p. 60)
- GE Minor: Global Connections (p. 61)
- GE Minor: World Cultures and Diversity (p. 62)

General Education Pathways

Students may elect to further engage in general education through thematic pathways that provide integrative experiences based on student interest in themes addressing modern societal issues. Each thematic pathway includes suggested GE courses that fulfill GE requirements through coursework designed around inquiry questions. The GE Pathway Program offers not only an integrated learning experience across different fields of study, but also the opportunity to earn an interdisciplinary minor (see GE Minors).

- GE Pathway: Big Ideas that Change the World: Exploring Ideas, Innovations, Discoveries (p. 63)
- GE Pathway: Digital Life (p. 63)
- GE Pathway: Diversity and Social Justice (p. 64)
- GE Pathway: Environmental Sustainability (p. 64)
- GE Pathway: Global Connections (p. 65)
- GE Pathway: World Cultures and Diversity (p. 66)

To achieve the many different GE student learning outcomes in balance with the many other outcomes students must achieve to graduate several course designations have been created to overlay CSUSB campus requirements with the state requirements. These designations ensure that students complete requirements specific to CSUSB values regardless of their choices in GE. Courses with a designation go beyond a focus on the associated GLOs; they intentionally and comprehensively incorporate the designation in the content and goals of the course. Contained within the course offerings for GE foundations and disciplinary perspectives are offerings with course designations that fulfill the following GE requirements.

Students may satisfy Diversity and Inclusiveness, Writing Intensive, and Global Perspectives designations with courses in their major with classes that have designations.

Diversity and Inclusiveness Designation (DI)

Courses with a DI designation comprehensively explore multiple perspectives in order to develop student understanding to collaborate respectfully and effectively with others across a variety of cultures and contexts. Students must complete one DI designated course.

AAED 3431	Art and Human Development	3
AAED 4435	Arts in Corrections Practicum	3
AH 1103	Art History Methodologies 1	3
AH 1104	Art History Methodologies 2	3
AH 1120	Globalization, Art, and Visual Culture	3
AH 1221	Art History Foundations 1	3
AH 1222	Art History Foundations 2	3
AH 3210	Visualizing Gender, Performing Identity	3
AH 3250	Topics and Themes of Art History and Exhibitions	3
AH 3310	Asian Contemporary Art	3
AH 3350	Contemporary Art and Culture of the Americas	3
AH 4250	Art History Seminar	3
AH 5250	Art History Capstone Research Seminar	3
AH 5290	Art History Conference	3
ANTH 1001	Humans, Apes, and Monkeys: Introduction to Biological Anthropology	3
ANTH 1002	Understanding Cultural Diversity	3
ANTH 1400	World History to c. 1500	3
ANTH 3500	The Race Concept in Biological Anthropology	3
ANTH 3603	Gendered Worlds: Power, Difference, and & In/equality	3
ANTH 3703R	Anthropology of Asia: Cultures, Communities, and Migration	3
ARAB 1112	Beginning Arabic 2	3
ARAB 2900	Arabic Literature in Translation	3
ARAB 3900	Female Voices in Arab American Literature	3
ARAB 4900	Voices and Visions from the Arab World	3
ART 2400	Introduction to Chicanx Art	3
ART 3000	Art and Activism	3
ASL 1112	American Sign Language II	3
CAHU 1112	Language Study II: Cahuilla	3
CAL 1500	Digital Humanities and Arts	3
CAL 1804	Rock and Roll: Justice and Society	3
CAL 3250	Perspectives on Gender	3
CAL 3300	Arts and Ideas in A Changing Global World	3
CAL 3350	Latinx Border Identity: A Transmedia Perspective	3
CAL 3550	LGBTQ+ Issues in the Humanities	3
CAL 3700	African Arts Heritage	3
CAL 3750	Exploring the World of Islam	3
CAL 3888	Asian Humanities in a Globalized World	3
CHIN 1112	College Chinese II	3
CHIN 2000	Introduction to Chinese Civilization	3
CHIN 2900	Chinese Literature in Translation	3
CJUS 4451	Women and Crime	3
COMM 1020	Looking at Movies	3
COMM 2201	Intercultural Communication	3
COMM 3334	Global Cinema	3
COMM 3336	Queer Cinema	3
COMM 4211	Communication and Gender	3
COMM 4301	Gender, Race, and Class in Media	3
COMM 4302	Latinx, Media, and Cultures	3
ENG 1200	Multi-Ethnic American Literature	3
ENG 1210	Diversity Literature and Social Justice	3
ENG 1700	Studies in Literature and Creative Writing	3
ENG 3000	Studies in Global Literatures	3
ENG 3140	Native American and Indigenous Literatures	3
ENG 3200	Literature for Children and Young Adults	3
ES 2200	Women of Color Feminisms	3
FIN 3555	Business and Asian Culture	3
FREN 1112	Beginning French 2	3
FREN 2900	French Literature and Film in English	3
GEOG 1650	World Regions and Peoples	3
GSS 1000	Introduction to Women's Studies	3
GSS 1010	Introduction to Masculinity Studies	3
GSS 1020	Introduction to Transgender Studies	3
GSS 1030	Introduction to Lesbian, Gay, Bisexual, Transgender, and Queer Studies	3
GSS 4200	Feminist Theory	3
GSS 4500	Queer Theory	3
HIST 1400	World History to c. 1500	3
HIST 1440	World History from c.1500	3
HIST 1460	History of the United States: Pre-Colonization to Present	3
HIST 1460H	Honors History of the United States: Pre-Colonization to Present	3
HIST 2000	United States History to 1877	3
HIST 2010	United States History, 1877 to the Present	3
HIST 3380	Ancient Egyptian Art	3
HIST 3890	Images of Africa	3
HIST 4330	Modern Chinese History in Fiction and Film	3
HON 3250	Social Sciences and Natural Sciences Praxis	3
HON 3530	Multidisciplinary Approaches in the Social Sciences	3
HSCI 3207	Social Determinants of Health	3
HSCI 4209	Complementary and Alternative Medicine	3

HSCI 4210	Cultural Competency	3
JAPN 1112	Beginning Japanese II	3
JAPN 2900	Japanese Literature in English	3
KINE 3050	Disability, Society and Physical Activity	3
KOR 1112	Beginning Korean 2	3
KOR 2900	Korean Literature in English	3
LUIS 1112	Language Study II: Luiseño	3
MUS 1270	History of Electronic Music	3
MUS 1865	Global Hip Hop	3
MUS 1880	Asian American Music	3
MUS 1969	LGBTQ+ Influences in Music	3
MUS 3080	Women in Music	3
MUS 3309	Jazz History in America and African-American Culture	3
MUS 3510	Latin American Music	3
NSCI 3250	Perspectives on Gender	3
NURS 4417	Community & Public Health Nursing Practice	5
NURS 4510	Community/Public Health Promotion	3
NURS 4512	Community/Public Health Promotion Practicum	3
PA 3050	Organizations in Multicultural and Diverse Societies	3
PHIL 1016	Introduction to Latin American Philosophy	3
PHIL 3011	Philosophy of Race	3
PHIL 3020	Philosophy of Hip Hop	3
PHIL 3025	Marginalized in America	3
PHIL 3026	Philosophy of Disability	3
PHIL 3320	Latin American Philosophy	3
PHIL 3530	Social Epistemology	3
PORT 1112	Language Study II: Portuguese	3
SERR 1112	Language Study II: Serrano	3
SOC 1100	Latino Communities, Wellness, and Life Skills	3
SOC 3410	The African American Family	3
SOC 3420	The Latino Family	3
SOC 4420	The Latino Experience in the U.S.	3
SPAN 1112	College Spanish 2	3
SPAN 2900	Spanish Literature and Film in English	3
SPAN 3900	Voices & Visions from the Hispanic World	3
SSCI 3000	Global Issues and Perspectives	3
SSCI 3001	Global Issues and Perspectives	3
SSCI 3010	Revolutions and Revolutionary Ideas	3
SSCI 3011	Revolutions and Revolutionary Ideas	3
SSCI 3160	Race and Racism	3
SSCI 3250	Perspectives on Gender	3
SW 3022	Human Behavior and the Social Environment II	3
TA 4663	Dramatic Literature of Identity	3
WLL 1112	Indigenous Language Study 2	3
WLL 3940	Mediterranean Languages and Identities	3
WLL 3950	Languages & Cultures	3

Global Perspectives Designation (G)

Courses with a G designation comprehensively develop the student's ability to understand global contexts and to contribute to an ever-changing and pluralistic world. Students must complete one G designated course.

ADMN 1002	Leadership for Global Challenges: Citizenship in a Sustainable World	3
AH 1103	Art History Methodologies 1	3
AH 1104	Art History Methodologies 2	3
AH 1120	Globalization, Art, and Visual Culture	3
AH 1221	Art History Foundations 1	3
AH 1222	Art History Foundations 2	3
AH 3210	Visualizing Gender, Performing Identity	3
AH 3250	Topics and Themes of Art History and Exhibitions	3
AH 3310	Asian Contemporary Art	3
AH 3350	Contemporary Art and Culture of the Americas	3
AH 4250	Art History Seminar	3
AH 5250	Art History Capstone Research Seminar	3
AH 5290	Art History Conference	3
ANTH 1001	Humans, Apes, and Monkeys: Introduction to Biological Anthropology	3
ANTH 1002	Understanding Cultural Diversity	3
ANTH 1400	World History to c. 1500	3
ANTH 3600	The History of Anthropological Thought	3
ANTH 3603	Gendered Worlds: Power, Difference, and & In/equality	3
ANTH 3703R	Anthropology of Asia: Cultures, Communities, and Migration	3
ARAB 1112	Beginning Arabic 2	3
ARAB 2900	Arabic Literature in Translation	3
ARAB 3900	Female Voices in Arab American Literature	3
ARAB 4900	Voices and Visions from the Arab World	3
ART 1200	Creativity, Imagination, and the Consciousness	3
ASL 1112	American Sign Language II	3
ART 3332	Case Studies in Art and Activism	3
CAHU 1112	Language Study II: Cahuilla	3
CAL 1120	Global You/U	3
CAL 3300	Arts and Ideas in A Changing Global World	3
CAL 3350	Latinx Border Identity: A Transmedia Perspective	3
CAL 3400	Enduring Questions in Literature, Culture, and Society	3
CAL 3550	LGBTQ+ Issues in the Humanities	3
CAL 3700	African Arts Heritage	3
CAL 3750	Exploring the World of Islam	3
CAL 3888	Asian Humanities in a Globalized World	3

CAL 5763	International Experience: Latin American Studies	3
CAL 5783	International Experience: Asian Studies	3
CAL 5823	International Experience: European Studies	3
CAL 5843	International Experience: African Studies	3
CHIN 1112	College Chinese II	3
CHIN 2000	Introduction to Chinese Civilization	3
CHIN 2900	Chinese Literature in Translation	3
COMM 3334	Global Cinema	3
COMM 4303	Global Communication	3
DES 3001	Innovator's ToolBox - An Introduction to Creative Problem Solving and Design Thinking	3
ECON 2000	The Economy: Problems and Perspectives	3
ECON 2202	Principles of Macroeconomics	3
ENG 3000	Studies in Global Literatures	3
ENG 3400	Analysis of Environmental Discourse	3
ENG 3410	Environmental Literature	3
FIN 3555	Business and Asian Culture	3
FIN 4330	International Finance	3
FREN 1112	Beginning French 2	3
FREN 2900	French Literature and Film in English	3
FREN 3900	Voices & Visions from the French-Speaking World	3
GEOG 1010	Introduction to Human Geography	3
GEOG 1650	World Regions and Peoples	3
GEOG 2000	Environment and Society	3
GEOG 2040	Water in the West	3
GEOG 5150	Global Governance and the United Nations System	3
GEOL 1020	Plate Tectonics: Key to Understanding Earthquakes, Volcanoes and Tsunami	3
GEOL 1060	Environmental Geology and Geological Hazards	3
GEOL 2040	Water in the West	3
GEOL 3020	Natural Disasters	3
GEOL 3040	Energy and the Environment	3
GSS 1000	Introduction to Women's Studies	3
GSS 1010	Introduction to Masculinity Studies	3
GSS 1030	Introduction to Lesbian, Gay, Bisexual, Transgender, and Queer Studies	3
GSS 4200	Feminist Theory	3
GSS 4500	Queer Theory	3
HIST 1400	World History to c. 1500	3
HIST 1440	World History from c.1500	3
HIST 3380	Ancient Egyptian Art	3
HIST 3890	Images of Africa	3
HIST 4330	Modern Chinese History in Fiction and Film	3
HON 3100	Natural Sciences and the Humanities	3
HON 3300	Social Science and the Humanities Seminar	3
HON 3510	Multidisciplinary Approaches in the Arts and Humanities	3
HON 3530	Multidisciplinary Approaches in the Social Sciences	3
HOSM 5400	The Art and Science of Wine	3
HSCI 3051	Health and Human Ecology	3
HSCI 3203	Global Health	3
JAPN 1112	Beginning Japanese II	3
JAPN 2900	Japanese Literature in English	3
JAPN 3900	Voices & Visions from the World of Japanese Anime and Manga	3
KOR 1112	Beginning Korean 2	3
KOR 2900	Korean Literature in English	3
LAS 2000	Introduction to Latin American Studies	3
LUIS 1112	Language Study II: Luiseño	3
MKTG 4700	International Marketing	3
MUS 1270	History of Electronic Music	3
MUS 1800	Music Appreciation	3
MUS 1865	Global Hip Hop	3
MUS 1880	Asian American Music	3
MUS 3500	Global Music	3
MUS 3510	Latin American Music	3
MUS 3650	Music for the Screen	3
NSCI 3001	Scientific Perspectives on Global Challenges	3
PA 3150	Society, Business, & Global Governance	3
PHIL 1014	Introduction to Asian Philosophy	3
PHIL 1016	Introduction to Latin American Philosophy	3
PHIL 3012	Philosophy of Gender	3
PHIL 3013	Human Rights & Global Citizenship	3
PHIL 3018	Biomedical Ethics	3
PHIL 3019	Happiness	3
PHIL 3320	Latin American Philosophy	3
PHIL 3450	Asian Philosophy	3
PORT 1112	Language Study II: Portuguese	3
SERR 1112	Language Study II: Serrano	3
SOC 3700	Sociology of Globalization	3
SOC 3750	Population and Society	3
SOC 5300	Global Aging	3
SOC 5510	Borders, Knowledges, and Identities	3
SPAN 1112	College Spanish 2	3
SPAN 2900	Spanish Literature and Film in English	3
SPAN 3900	Voices & Visions from the Hispanic World	3
SSCI 3000	Global Issues and Perspectives	3
SSCI 3001	Global Issues and Perspectives	3
SSCI 3010	Revolutions and Revolutionary Ideas	3
SSCI 3011	Revolutions and Revolutionary Ideas	3
SSCI 3160	Race and Racism	3

SSCI 3320	Understanding Capitalism	3
SSCI 3390	Climate Change	3
TA 1160	All the World's A Stage: A Tour of Global Performance	3
WLL 1112	Indigenous Language Study 2	3
WLL 3920	Great Works, Revolutionary Ideas, and Important Discoveries	3
WLL 3940	Mediterranean Languages and Identities	3
WLL 3950	Languages & Cultures	3

Writing Intensive Requirements (WI)

Students must complete two WI designated courses. Students satisfy the writing requirements by completing:

- Two Writing Intensive (WI) designated courses, at least one at the upper-division level (required to satisfy GWAR).
- Students may complete one writing-intensive course outside of GE (major, minor, or elective) to satisfy one WI course.

AH 1103	Art History Methodologies 1	3
AH 1104	Art History Methodologies 2	3
AH 1120	Globalization, Art, and Visual Culture	3
AH 1221	Art History Foundations 1	3
AH 1222	Art History Foundations 2	3
AH 3210	Visualizing Gender, Performing Identity	3
AH 3250	Topics and Themes of Art History and Exhibitions	3
AH 3310	Asian Contemporary Art	3
AH 3350	Contemporary Art and Culture of the Americas	3
AH 4250	Art History Seminar	3
AH 5250	Art History Capstone Research Seminar	3
AH 5290	Art History Conference	3
ANTH 4603L	Museum Research and Exhibit Development	4
ARAB 3900	Female Voices in Arab American Literature	3
ART 1150	Language of Art	3
ART 3000	Art and Activism	3
ASTR 4000	Observational Astronomy	3
BIOL 3100	Cell Biology	4
BIOL 3200	Microbiology	4
BIOL 3630	Comparative Animal Physiology I	4
BIOL 3640	Comparative Animal Physiology II	4
CAFS 4498	Advanced Child and Family Development	3
CAL 5953	Independent Study in the Humanities	3
COMM 2301	Newswriting and Reporting	3
COMM 4101	Communication Research Methodology	3
CSE 4880	Ethics Senior Seminar	3
CSE 5208	Introduction to Computer Engineering Design	4
DES 4195	Design Portfolio	3
DES 5100	Design Capstone Thesis: Research	6
DES 5115	Design Capstone Thesis: Project	6
ECON 3900	Writing in Economics	3
ECTS 5560	Graduate Intensive Academic Writing	3
ENG 1210	Diversity Literature and Social Justice	3
ENG 1300	Foundation Seminar: Language, Society, and Power	3
ENG 2400	Writing in the Public Sphere	3
ENG 3000	Studies in Global Literatures	3
ENG 3010	Analysis of Poetry and Drama	3
ENG 3030	Analysis of Fiction and Nonfiction Prose	3
ENG 3060	Writing as Academic Inquiry	3
ENG 3061	Science Writing as Academic Inquiry	3
ENG 3070	Theories of Public and Professional Writing	3
ENG 3140	Native American and Indigenous Literatures	3
ENG 3210	Language, Thought, and Culture	3
ENG 3240	Studies in Literary Topics	3
ENG 3300	Tutoring Writing: Theory and Practice	3
ENG 3400	Analysis of Environmental Discourse	3
ENG 3410	Environmental Literature	3
ENG 3500	Literary Movements: Aesthetics and Craft	3
ENG 3520	Creative Writing in Specialized Genres	3
ENG 3700	Turning Points in Literary History	3
ENG 5150	Senior Seminar in Literature	3
ES 3000	Research Methods in Ethnic Studies	3
FREN 3900	Voices & Visions from the French-Speaking World	3
GEOL 3990	Geological Research Design	3
HIST 5850	Research Seminar in History	3
HON 1200	Thinking Critically	3
HON 1400	Constructing Knowledge	3
HON 3100	Natural Sciences and the Humanities	3
HON 3150	Natural Sciences and the Humanities Praxis	3
HON 3200	Social Sciences and Natural Sciences Seminar	3
HON 3250	Social Sciences and Natural Sciences Praxis	3
HON 3300	Social Science and the Humanities Seminar	3
HON 3510	Multidisciplinary Approaches in the Arts and Humanities	3
HON 3520	Multidisciplinary Approaches in the Natural Sciences	3
HON 3530	Multidisciplinary Approaches in the Social Sciences	3
HSCI 3208	Introduction to Professional Development and Communication	3
HSCI 4205	Advanced Professional Writing in Public Health	3
HSCI 4501	Advanced Environmental Health	4
HSCI 4662	Advanced Nutrition and Topics	3

HSCI 4690	Senior Capstone	2
JAPN 3900	Voices & Visions from the World of Japanese Anime and Manga	3
KINE 3700	Statistics in Kinesiology	3
KOR 2900	Korean Literature in English	3
LBST 5900	Liberal Studies and Liberal Arts Senior Assessment and Writing Workshop	2
MATH 3100	Mathematical Thinking: Communication and Proof	4
MGMT 3350	Business, Ethics, and Society	3
MGMT 3500	Applied Communication	3
MUS 3050	Western Music History from 1700 to 1900	3
MUS 3060	Western Music History from 1900 to the present	3
MUS 3670	Music in Video Games	3
MUS 3760	Psychology of Music	3
NSCI 3001	Scientific Perspectives on Global Challenges	3
NSCI 3010	Introduction to STEM and STEM Research	2
NURS 3010	Role Transition to Professional Nursing Practice	3
NURS 3640	Introduction to Theories of Nursing & Health	3
PHIL 1011	Introduction to Philosophy	3
or PHIL 1011H	Honors Introduction to Philosophy	
PHIL 1012	Introduction to Ethics	3
or PHIL 1012H	Honors Introduction to Ethics	
PHIL 1013	Introduction to Philosophy of Religion	3
PHIL 1014	Introduction to Asian Philosophy	3
PHIL 1015	Introduction to Knowledge and Reality	3
or PHIL 1015H	Honors Introduction to Knowledge and Reality	
PHIL 1016	Introduction to Latin American Philosophy	3
PHIL 1017	Introduction to Philosophy of Sex	3
PHIL 3006	Philosophy in Children's Literature	3
PHIL 3010	Truth, Lies and Bullshit	3
PHIL 3011	Philosophy of Race	3
PHIL 3012	Philosophy of Gender	3
PHIL 3013	Human Rights & Global Citizenship	3
PHIL 3014	Environmental Ethics	3
PHIL 3015	Roots and Results of Democracy	3
PHIL 3016	Real Ethics in a Virtual World	3
PHIL 3017	Scientific Revolutions	3
PHIL 3018	Biomedical Ethics	3
PHIL 3019	Happiness	3
PHIL 3020	Philosophy of Hip Hop	3
PHIL 3025	Marginalized in America	3
PHIL 3026	Philosophy of Disability	3
PHIL 3027	Science Fiction and Philosophy	3
PHIL 3040	Philosophy and Film	3
PHIL 3210	Ancient Philosophy	3
PHIL 3250	Early Modern Philosophy	3
PHIL 3290	Topics in the History of Philosophy	3
PHIL 3310	Ethics	3
PHIL 3315	Moral Psychology	3
PHIL 3317	Aesthetics: Philosophy of Art and Beauty	3
PHIL 3320	Latin American Philosophy	3
PHIL 3330	Social and Political Philosophy	3
PHIL 3350	Philosophy of Law	3
PHIL 3355	Jurisprudence	3
PHIL 3390	Topics in Value Theory	3
PHIL 3410	Philosophy of Religion	3
PHIL 3450	Asian Philosophy	3
PHIL 3510	Theory of Knowledge	3
PHIL 3520	Philosophy of Science	3
PHIL 3530	Social Epistemology	3
PHIL 3550	Metaphysics	3
PHIL 3560	Philosophy of Logic and Mathematics	3
PHIL 3580	Philosophy of Language	3
PHIL 3590	Topics in Metaphysics and Knowledge	3
PHIL 3610	Phenomenology	3
PHIL 3620	Existentialism	3
PHIL 3630	Continental Philosophy	3
PHIL 3900	Topics in Philosophy	3
PHYS 4800	Senior Thesis	2
PSYC 4421	Advanced Seminar in Psychology: Developmental	3
PSYC 4422	Advanced Seminar in Psychology: Clinical	3
PSYC 4423	Advanced Seminar in Psychology: Biological	3
PSYC 4424	Advanced Seminar in Psychology: Social	3
PSYC 4425	Advanced Seminar in Psychology: Personality	3
PSYC 4426	Advanced Seminar in Psychology: Learning and Motivation	3
PSYC 4427	Advanced Seminar in Psychology: Cognition and Perception	3
PSYC 4428	Advanced Seminar in Psychology: Industrial and Organizational	3
PSYC 4431	Experimental Psychology: Developmental	4
PSYC 4432	Experimental Psychology: Clinical	4
PSYC 4433	Experimental Psychology: Biological	4
PSYC 4434	Experimental Psychology: Social	4
PSYC 4435	Experimental Psychology: Personality	4
PSYC 4436	Experimental Psychology: Learning and Motivation	4
PSYC 4437	Experimental Psychology: Cognition and Perception	4
PSYC 4438	Experimental Psychology: Industrial and Organizational	4
SOC 5250	Indian Nations and Native America	3
SOC 5300	Global Aging	3

SOC 5400	Sociology of Higher Education	3
SOC 5440	LGBTQ Families	3
SOC 5490	Crime, Desistance, and Reentry	3
SOC 5500	Applied Sociological Research	3
SOC 5600	Social Determinants of Health	3
SOC 5900	Seminar in Sociology	3
SOC 5971	Honors Seminar 1	3
SPAN 3900	Voices & Visions from the Hispanic World	3
SSCI 3001	Global Issues and Perspectives	3
SSCI 3011	Revolutions and Revolutionary Ideas	3
SSCI 3060	Expository Writing for the Social Sciences	3
SSCI 5940	Senior Seminar	3
TA 3161	Theatre History and Literature I	3
TA 3162	Theatre History and Literature II	3
TA 4163	Criticism of Plays in Performance	3
WLL 3920	Great Works, Revolutionary Ideas, and Important Discoveries	3

GE Minor: Digital Literacies

Digital technologies, such as computers, smartphones, social media, and the Internet, play increasingly central roles in 21st century life. Courses in the Digital Life General Education Pathway (and the associated Digital Literacies General Education Minor) explore our understandings and uses of digital technologies and their impacts in various personal, professional, political, economic, and social-cultural contexts. Students consider the opportunities and challenges these technologies present, and they cultivate crucial digital and information literacies -- understandings, judgments, and practical skills necessary for navigating and thriving in an increasingly complex, interconnected, and mediated world.

Minor Requirements (18 units)

In order to complete this GE Minor, students must take 18 units (six courses), from the list below:

- at least two must be upper-division courses
- at least one must be a Writing Intensive course

Former GE Category E -- Foundations Seminar	
ADMN 1003	Leadership for Global Challenges: Exploring the Digital Mindset
CAL 1130	Digital You/U
GE Category 1B -- Critical Thinking	
CSE 1100	Critical Thinking Through Computer Programming
CSE 1290	College Learning for Lives and Careers in the Information Age
GE Category UD-2/5 -- Upper Division Scientific Inquiry	
PHYS 3010	The Science of Digital Sound and Music
GE Category 3A -- Arts	
CAL 1500	Digital Humanities and Arts (DI)
MUS 2266	Creating Digital Media Using Personal Electronic Technology
GE Category UD-3 -- Upper Division Arts or Humanities	
COMM 3332	Movies in the Digital Age
PHIL 3016	Real Ethics in a Virtual World (WI)
GE Category UD-4 -- Upper Division Social Science	
COMM 3305	Digital Media and Society
Total	18

GE Minor: Diversity and Social Justice Minor

The social justice minor offers students opportunities to examine issues and theories related to identity, diversity, and equity. Through interdisciplinary coursework and projects, students will deepen their understandings of the disparate ways that people access civil, political, economic, social, cultural, and environmental rights and opportunities and the ways that social structures impact equitable distribution.

Minor Requirements (18 units)

To complete this GE Minor, students must complete six courses (18 units), from the list of choices below:

- At least two courses must be upper division courses (3000 or higher)
- At least one must be a Writing Intensive (WI) course

GE Category 1B -- Critical Thinking	
SOC 1800	Critical Thinking about Social Issues
GE Category 5B -- Biological Science	
BIOL 2160	Genetics and Society
BIOL 2180	Sustainable Agriculture
GE Category 2 -- Mathematics/Quantitative Reasoning	
MATH 1101	Mathematics and Society
GE Category UD-2/5 -- Upper Division Scientific Inquiry	
BIOL 3010	Human Ecology
MATH 3140	Introduction to Systems Modeling
GE Category 3A -- Arts	
CAL 1804	Rock and Roll: Justice and Society (DI)
COMM 1020	Looking at Movies (DI)
ENG 1210	Diversity Literature and Social Justice (DI, WI)
GE Category 3B -- Humanities	
PHIL 1011	Introduction to Philosophy (WI)
PHIL 1012	Introduction to Ethics (WI)
PHIL 1013	Introduction to Philosophy of Religion (WI)
PHIL 1014	Introduction to Asian Philosophy (G, WI)
PHIL 1015	Introduction to Knowledge and Reality (WI)
GE Category UD-3 -- Upper Division Arts or Humanities	
AH 3210	Visualizing Gender, Performing Identity (DI, G, WI)
ARAB 3900	Female Voices in Arab American Literature (DI, G, WI)
ART 3000	Art and Activism (DI)
HIST 3890	Images of Africa (DI, G)
PHIL 3010	Truth, Lies and Bullshit (WI)
PHIL 3011	Philosophy of Race (DI, WI)

PHIL 3012	Philosophy of Gender (G, WI)
PHIL 3013	Human Rights & Global Citizenship (G, WI)
PHIL 3014	Environmental Ethics (WI)
PHIL 3015	Roots and Results of Democracy (WI)
PHIL 3016	Real Ethics in a Virtual World (WI)
PHIL 3017	Scientific Revolutions (WI)
GE Category 4 -- Social Sciences Perspective	
ECON 2000	The Economy: Problems and Perspectives (G)
GSS 1000	Introduction to Women's Studies (DI, G)
GSS 1010	Introduction to Masculinity Studies (DI, G)
GSS 1030	Introduction to Lesbian, Gay, Bisexual, Transgender, and Queer Studies (DI, G)
GE Category UD-4 -- Upper Division Social Science	
ANTH 3603	Gendered Worlds: Power, Difference, and & In/equality (DI, G)
COMM 3305	Digital Media and Society
GSS 4200	Feminist Theory (DI, G)
GSS 4500	Queer Theory (DI, G)
PA 3150	Society, Business, & Global Governance (G)
SSCI 3010	Revolutions and Revolutionary Ideas (DI, G)
SSCI 3011	Revolutions and Revolutionary Ideas (DI, G, WI)
SSCI 3160	Race and Racism (DI, G)
SSCI 3250	Perspectives on Gender (DI)
Total	18

GE Minor: Environmental Sustainability

The Environmental Sustainability GE minor provides holistic perspectives on environmental issues by exploring relationships between society and nature through interdisciplinary connections of natural science, social science, humanities, and business. Choose courses from this GE minor to broaden your awareness of the environment and human interactions with ecosystems, learn different viewpoints about what the concept of "sustainability" means, and meet the challenges of promoting sustainability in the local community and at a global scale.

Minor Requirements (18 units)

In order to complete this GE Minor, students must take 18 units (six courses), by choosing one course from six of the categories below:

- at least two must be upper-division courses
- at least one must be a Writing Intensive course

Students should take care to choose classes from a variety of departments and disciplinary perspectives.

Former Category E -- Foundation Seminar	
Choose one of the following:	
ADMN 1002	Interdisciplinary Leadership for a Sustainable World (G)
NSCI 1200	Science, Environmental Sustainability and Social Responsibility
Category 5A -- Physical Science	
Choose one of the following:	
GEOL 1060	Environmental Geology and Geological Hazards (G, recommend GEOL 1060L)
GEOL 2040	Water in the West (G)
or GEOG 2040	Water in the West
Category 5B -- Biological Science	
BIOL 2180	Sustainable Agriculture
Category UD-2/5 -- Upper Division Scientific Inquiry	
Choose one of the following:	
BIOL 3010	Human Ecology
CHEM 3100	Chemistry and the Environment
GEOL 3020	Natural Disasters (G)
GEOL 3040	Energy and the Environment (G)
MATH 3140	Introduction to Systems Modeling
Category UD-3 -- Upper Division Arts or Humanities	
Choose one of the following:	
ENG 3400	Analysis of Environmental Discourse (G, WI)
ENG 3410	Environmental Literature (G, WI)
PHIL 3014	Environmental Ethics (DI, WI)
Category 4 -- Social Science Discipline Perspective	
Choose one of the following:	
ECON 2000	The Economy: Problems and Perspectives (G)
GEOG 2000	Environment and Society (G)
Category UD-4 -- Upper Division Social Science	
Choose one of the following:	
GEOG 3501	Environmental Sustainability
SSCI 3390	Climate Change (G)
Total	18

GE Minor: Foundations of Change & Discovery

Pathway Description (for Students):

What ideas, innovations and discoveries change the world? Why is what we believe different from the ideas of others? Are our ideas always better than ideas people had in the past? Are some innovations more important than others? Do all innovations have a positive impact? Why have certain ideas about politics, economics, culture, science, and the natural world pushed aside competing claims?

The world we know today is not the world that peoples knew a hundred (or thousands of) years ago, and it is not the world that will exist a hundred years from now. This pathway will encourage you to think about connections between ideas, innovations, and discoveries from a variety of disciplinary perspectives. In this pathway, we will investigate how and what changes shape the world.

Ideas, innovations, and discoveries shape the world we live in and arise from a variety of contexts. For example, who am I (identity) and what is my role within my community (identity politics), how shall I live (ethics), how will I know if I'm successful (economics, psychology), where am I allowed to live (immigration policies), and how does the physical world work (science). In this pathway, you will explore a variety of ideas, innovations, and discoveries that made an impact on communities around the world.

GE Minor Requirements (18 units)

In order to complete this GE Minor, students must take 18 units (six courses):

- at least two must be upper-division courses
- at least one must be a Writing Intensive course

Students should take care to choose classes from a variety of departments and disciplinary perspectives so that you see how Discoveries are represented throughout the curriculum.

Former GE Category E -- Foundation Seminar	
ADMN 1001	Critical Thinking Through the Entrepreneurial Mindset
CAL 1110	Reacting to the Past: Humanities Perspectives
NSCI 1110	Reacting to the Past: Natural Sciences Perspectives
GE Category -- Scientific Inquiry	
GEOL 1020	Plate Tectonics: Key to Understanding Earthquakes, Volcanoes and Tsunami
CHEM 3000	History of Science and Technology
GE Category -- Arts & Humanities	
ENG 2180	The Function of Stories (WI)
CAL 3300	Arts and Ideas in A Changing Global World
ENG 3700	Turning Points in Literary History (WI)
PHIL 3015	Roots and Results of Democracy (WI)
PHIL 3017	Scientific Revolutions (WI)
WLL 3920	Great Works, Revolutionary Ideas, and Important Discoveries (WI)
GE Category -- Social Sciences	
ANTH 1001	Humans, Apes, and Monkeys: Introduction to Biological Anthropology
ANTH 3500	The Race Concept in Biological Anthropology
SSCI 3011	Revolutions and Revolutionary Ideas
SSCI 3010	Revolutions and Revolutionary Ideas
SSCI 3320	Understanding Capitalism
Total	18

GE Minor: Global Connections

The Global Competency General Education (GE) Minor is a new interdisciplinary minor associated with the new Global Connections GE Pathway program. Both have been developed as part of the conversion of the quarter GE curriculum to a new semester GE curriculum structure.

The Global Competency GE Minor encourages students to take more classes within the Global Connections GE Pathway and gain a more in-depth understanding of the connectivity around the globe and how that connectivity has impacted various components of human society.

The minor inspires students who are already completing the Global Connections GE Pathway to take additional classes in the pathway. These other classes lead to a more significant exploration of a particular facet of global connectivity the student found interesting when completing the Global Connections GE Pathway. For example, if a student is a part of the Global Connections GE Pathway and then becomes very interested in global connectivity and governance issues, they can take additional classes from the pathway they have not completed already. The minor allows the student to concentrate on that topic beyond the GE pathway classes. In doing so, students become more globally aware concerning a particular global issue and gain the skills and knowledge at a deeper level to be an actively engaged global citizen.

Minor Requirements (18 units)

In order to complete this GE Minor, students must take 18 units (six courses), by choosing one course from six categories:

- at least two must be upper-division courses
- at least one must be a Writing Intensive course
- Students for the Global Competency GE Minor can take up to two non-GE classes to complete the minor.

Note: Students should consult with departments who contribute courses to this minor and to the Global Connections GE Pathway to find co-curricular opportunities (e.g., participating in Coyote Career Center activities, participating in faculty-led research and participating in study abroad and study away programs) that can further enhance their educational experience.

Former GE Category E -- Foundation Seminar	
CAL 1120	Global You/U (G)
GE Category UD-3 -- Upper Division Arts & Humanities	
CAL 3300	Arts and Ideas in A Changing Global World (G)
CAL 3700	African Arts Heritage (DI, G)
CAL 3750	Islam in Today's World (DI, G)
CAL 3888	Asian Humanities in a Globalized World (DI, G)
COMM 3334	Global Cinema (G)
ENG 3000	Studies in Global Literatures (DI, G)
FREN 3900	Voices & Visions from the French-Speaking World (G, WI)
MUS 3500	Global Music (G)
PHIL 3013	Human Rights & Global Citizenship (G, WI)
SPAN 3900	Voices & Visions from the Hispanic World (G, WI)
WLL 3940	Mediterranean Languages and Identities (DI, G)
WLL 3950	Languages & Cultures (DI, G)
GE Category 4 -- Social Science Disciplinary Perspectives	
ANTH 1400	World History to c. 1500 (DI, G)
or HIST 1400	World History to c. 1500
ECON 2202	Principles of Macroeconomics (G)
GEOG 1650	World Regions and Peoples (DI, G)
HIST 1440	World History from c.1500

GE Category UD-4 -- Upper Division Social Science		
	GEOG 5150	Global Governance and the United Nations System (G)
	PA 3150	Society, Business, & Global Governance (DI, G)
	SSCI 3000	Global Issues and Perspectives (DI, G)
	SSCI 3001	Global Issues and Perspectives (DI, G, WI)
Non-GE Courses that can be taken for the Global Connections GE Minor		
	FIN 3555	Business and Asian Culture
	GEOG 5755	Model United Nations Practicum (Fall Semester MUN Team)
	GEOG 5756	Model United Nations Practicum (Spring Semester MUN Team)
Total		18

GE Minor: World Cultures and Diversity

This minor introduces students to the construction of cultural similarities and differences among peoples and diverse identities across the world, including ethnic, sexual, economic, religious, and national identities. It fosters an understanding, appreciation, and respect for cultural differences by examining the production of art, literature, folklore, dance, music, and language, and the development of gender identities, belief systems and worldview, among other expressions, as well as their relationship to broader historical, economic, and political processes. Students will acquire cultural competency, cultivate sensitivity, and ethical responsibility, while also gaining a perspective on themselves and their local community.

Essential Questions include: 1. How are cultures and diversity created, maintained, expressed, and changed?; 2. How are diverse identities constructed in relation to historical, political, and economic processes on local and global scales?; 3. What are the causes and consequences of cross cultural interactions, and how are they interpreted?; 4. How is world diversity manifested through art, literature, folklore, language, religion, worldview, gender identities, as well as material and non-material culture?

Minor Requirements (18 units)

In order to complete this GE Minor, students must take 18 units (six courses), by choosing one course from six categories:

- at least two must be upper-division courses
- at least one must be a Writing Intensive course

Students are required to take one course from World Languages and Literature and one course from Anthropology.

GE Category 3A -- Arts		
	COMM 1020	Looking at Movies (DI)
GE Category 3B -- Humanities		
Choose one of the following:		
	ARAB 1112	Beginning Arabic 2 (DI, G)
	ARAB 2900	Arabic Literature in Translation (DI, G)
	CHIN 1112	College Chinese II (DI, G)
	CHIN 2900	Chinese Literature in Translation (DI, G)
	ENG 1200	Multi-Ethnic American Literature (DI)
	ENG 1210	Diversity Literature and Social Justice (DI, WI)
	FREN 1112	Beginning French 2 (DI, G)
	FREN 2900	French Literature and Film in English (DI, G)
	JAPN 1112	Beginning Japanese II (DI, G)
	JAPN 2900	Japanese Literature in English (DI, G)
	KOR 1112	Beginning Korean 2 (DI, G)
	KOR 2900	Korean Literature in English (DI, G)
	PHIL 1014	Introduction to Asian Philosophy (G, WI)
	SPAN 1112	College Spanish 2 (DI, G)
	SPAN 2900	Spanish Literature and Film in English (DI, G)
GE Category UD-3 -- Upper Division Arts & Humanities		
Choose one of the following:		
	ARAB 3900	Female Voices in Arab American Literature (DI, G, WI)
	CAL 3700	African Arts Heritage (DI, G)
	CAL 3750	Islam in Today's World (DI, G)
	COMM 3334	Global Cinema (DI, G)
	ENG 3000	Studies in Global Literatures (DI, G, WI)
	ENG 3140	Native American and Indigenous Literatures (DI, G)
	FREN 3900	Voices & Visions from the French-Speaking World (DI, G, WI)
	HIST 3380	Ancient Egyptian Art (DI, G)
	HIST 3890	Images of Africa (DI, G)
	JAPN 3900	Voices & Visions from the World of Japanese Anime and Manga (DI, G, WI)
	MUS 3500	Global Music (G)
	SPAN 3900	Voices & Visions from the Hispanic World (DI, G, WI)
	WLL 3940	Mediterranean Languages and Identities (DI, G)
	WLL 3950	Languages & Cultures (DI, G)
GE Category 4 -- Social Science Disciplinary Perspectives		
Choose one of the following:		
	ANTH 1002	Understanding Cultural Diversity (DI, G)
	ANTH 1400	World History to c. 1500 (DI, G)
	or HIST 1400	World History to c. 1500
	GEOG 1010	Introduction to Human Geography (G)
	GEOG 1650	World Regions and Peoples (DI, G)
	HIST 1440	World History from c.1500 (DI, G)
GE Category UD-4 -- Upper Division Social Science		
Choose one of the following:		
	ANTH 3603	Gendered Worlds: Power, Difference, and & In/equality (DI, G)
	SSCI 3000	Global Issues and Perspectives (DI, G)
	SSCI 3001	Global Issues and Perspectives (DI, G, WI)
	SSCI 3010	Revolutions and Revolutionary Ideas (DI, G)

SSCI 3011	Revolutions and Revolutionary Ideas (DI, G, WI)
One additional course from the above categories	
Total	18

GE Pathway: Big ideas that Change the World: Exploring Ideas, Innovations, and Discoveries

What ideas, innovations and discoveries change the world? Why is what we believe different from the ideas of others? Are our ideas always better than ideas people had in the past? Are some innovations more important than others? Do all innovations have a positive impact? Why have certain ideas about politics, economics, culture, science, and the natural world pushed aside competing claims?

The world we know today is not the world that peoples knew a hundred (or thousands of) years ago, and it is not the world that will exist a hundred years from now. This pathway will encourage you to think about connections between ideas, innovations, and discoveries from a variety of disciplinary perspectives. In this pathway, we will investigate how and what changes shape the world.

Ideas, innovations, and discoveries shape the world we live in and arise from a variety of contexts. For example, who am I (identity) and what is my role within my community (identity politics), how shall I live (ethics), how will I know if I'm successful (economics, psychology), where am I allowed to live (immigration policies), and how does the physical world work (science). In this pathway, you will explore a variety of ideas, innovations, and discoveries that made an impact on communities around the world.

Students interested in this pathway, have the option of completing a GE minor. See information on GE Minor: Foundations of Change & Discovery.

Pathway Requirements (12 units)

To complete this pathway, students are advised to complete four courses (12 units), of which:

- At least two courses must be upper division courses (3000 or higher) from the Big Ideas course list
- At least one must be a Writing Intensive (WI) course from the Big Ideas course list

You should take care to choose classes from a variety of departments and disciplinary perspectives (colleges) so that you see how Big Ideas are represented throughout the curriculum.

Former GE Category E -- Foundation Seminar	
ADMN 1001	Critical Thinking Through the Entrepreneurial Mindset
CAL 1110	Reacting to the Past: Humanities Perspectives
NSCI 1110	Reacting to the Past: Natural Sciences Perspectives
GE Category -- Scientific Inquiry	
GEOL 1020	Plate Tectonics: Key to Understanding Earthquakes, Volcanoes and Tsunami (G)
CHEM 3000	History of Science and Technology
GE Category -- Arts & Humanities	
ENG 2180	The Function of Stories
CAL 3300	Arts and Ideas in A Changing Global World (DI, G)
ENG 3700	Turning Points in Literary History (WI)
PHIL 3015	Roots and Results of Democracy (WI)
PHIL 3017	Scientific Revolutions (WI)
WLL 3920	Great Works, Revolutionary Ideas, and Important Discoveries (G, WI)
GE Category -- Social Sciences	
ANTH 1001	Humans, Apes, and Monkeys: Introduction to Biological Anthropology (DI)
ANTH 3500	The Race Concept in Biological Anthropology (DI)
SSCI 3010	Revolutions and Revolutionary Ideas (DI, G)
SSCI 3011	Revolutions and Revolutionary Ideas (WI)
SSCI 3320	Understanding Capitalism (G)
Total	12

GE Pathway: Digital Life

Digital technologies, such as computers, smartphones, social media, and the Internet, play increasingly central roles in 21st century life. Courses in the Digital Life General Education Pathway (and the associated Digital Literacies General Education Minor) explore our understandings and uses of digital technologies and their impacts in various personal, professional, political, economic, and social-cultural contexts. Students consider the opportunities and challenges these technologies present, and they cultivate crucial digital and information literacies -- understandings, judgments, and practical skills necessary for navigating and thriving in an increasingly complex, interconnected, and mediated world.

Students interested in this pathway, have the option of completing a GE minor. See information on GE Minor: Digital Literacies.

Pathway Requirements (12 units)

Students are advised to complete at least four courses (12 units) from the following list of courses, by choosing one course from four of the following six categories:

Former GE Category E -- Foundations Seminar	
Choose one of the following:	
ADMN 1003	Leadership for Global Challenges: Exploring the Digital Mindset
CAL 1130	Digital You/U
CSE 1290	College Learning for Lives and Careers in the Information Age
GE Category 1B -- Critical Thinking	
CSE 1100	Critical Thinking Through Computer Programming

GE Category UD-2/5 -- Upper Division Scientific Inquiry		
	MUS 3007	Synthesizing Sound: The Art and Science of Audio Programming
	PHYS 3010	The Science of Digital Sound and Music
GE Category 3A -- Arts		
	Choose one of the following:	
	CAL 1500	Digital Humanities and Arts (DI)
	MUS 2266	Creating Digital Media Using Personal Electronic Technology
GE Category UD-3 -- Upper Division Arts & Humanities		
	Choose one of the following:	
	COMM 3332	Movies in the Digital Age
	PHIL 3016	Real Ethics in a Virtual World (WI)
GE Category UD-4 -- Social Science		
	COMM 3305	Digital Media and Society
Total		12

GE Pathway: Diversity and Social Justice

The social justice pathway offers students opportunities to examine issues and theories related to identity, diversity, and equity. Through interdisciplinary coursework and projects, students will deepen their understandings of the disparate ways that people access civil, political, economic, social, cultural, and environmental rights and opportunities and the ways that social structures impact equitable distribution.

Students interested in this pathway, have the option of completing a GE minor. See information on GE Minor: Diversity and Social Justice.

Pathway Requirements (12 units)

To complete this pathway, students are advised to complete four courses (12 units), from the list of choices below:

- At least two courses must be upper division courses (3000 or higher)
- At least one must be a Writing Intensive (WI) course

GE Category 1B -- Critical Thinking		
	SOC 1800	Critical Thinking about Social Issues
GE Category 5B -- Biological Science		
	BIOL 2160	Genetics and Society
	BIOL 2180	Sustainable Agriculture
GE Category 2 -- Mathematics/Quantitative Reasoning		
	MATH 1101	Mathematics and Society
GE Category UD-2/5 -- Upper Division Scientific Inquiry		
	BIOL 3010	Human Ecology
	MATH 3140	Introduction to Systems Modeling
GE Category 3A -- Arts		
	CAL 1804	Rock and Roll: Justice and Society (DI)
	COMM 1020	Looking at Movies (DI)
	ENG 1210	Diversity Literature and Social Justice (DI, WI)
GE Category 3B -- Humanities		
	PHIL 1012	Introduction to Ethics (WI)
GE Category UD-3 -- Upper Division Arts or Humanities		
	AH 3210	Visualizing Gender, Performing Identity (G, DI, WI)
	ARAB 3900	Female Voices in Arab American Literature (DI, G, WI)
	ART 3000	Art and Activism (DI)
	HIST 3890	Images of Africa (DI, G)
	PHIL 3010	Truth, Lies and Bullshit (WI)
	PHIL 3011	Philosophy of Race (DI, WI)
	PHIL 3012	Philosophy of Gender (DI, WI)
	PHIL 3020	Philosophy of Hip Hop (DI,WI)
	PHIL 3025	Marginalized in America (DI,WI)
	PHIL 3026	Philosophy of Disability (DI,WI)
GE Category 4 - Social Sciences Perspective		
	ECON 2000	The Economy: Problems and Perspectives (G)
	GSS 1000	Introduction to Women's Studies (DI, G)
	GSS 1010	Introduction to Masculinity Studies (DI, G)
	GSS 1030	Introduction to Lesbian, Gay, Bisexual, Transgender, and Queer Studies (DI, G)
GE Category UD-4 -- Upper Division Social Science		
	ANTH 3603	Gendered Worlds: Power, Difference, and & In/equality (DI, G)
	COMM 3305	Digital Media and Society
	GSS 4200	Feminist Theory (DI, G)
	GSS 4500	Queer Theory (DI, G)
	PA 3150	Society, Business, & Global Governance (G)
	SSCI 3010	Revolutions and Revolutionary Ideas (DI, G)
	SSCI 3011	Revolutions and Revolutionary Ideas (DI, G, WI)
	SSCI 3160	Race and Racism (DI, G)
	SSCI 3250	Perspectives on Gender (DI)
Total		12

GE Pathway: Environmental Sustainability

The Environmental Sustainability GE pathway provides holistic perspectives on environmental issues by exploring relationships between society and nature through interdisciplinary connections of natural science, social science, humanities, and business. Choose courses from this pathway to broaden your awareness of the environment and human interactions with ecosystems, learn different viewpoints about what the concept of "sustainability" means, and meet the challenges of promoting sustainability in the local community and at a global scale.

Students interested in this pathway, have the option of completing a GE minor. See information on GE Minor: Environmental Sustainability.

Pathway Requirements (12 units)

To complete the Environmental Sustainability GE Pathway, students are advised to complete at least four courses (12 units) by choosing one course from four of the following seven categories:

Former Category E -- Foundation Seminar		
	ADMN 1002	Interdisciplinary Leadership for a Sustainable World (G)
	NSCI 1200	Science, Environmental Sustainability and Social Responsibility
GE Category 5B -- Physical Science		
	GEOL 1060	Environmental Geology and Geological Hazards (G; recommend GEOL 1060L to fulfill GE B3.)
	GEOL 2040	Water in the West (G; both GEOL 2040 and GEOG 2040)
	or GEOG 2040	Water in the West
GE Category 5B -- Biological Science		
	BIOL 2180	Sustainable Agriculture
GE Category UD-2/5 -- Upper Division Scientific Inquiry		
	BIOL 3010	Human Ecology
	CHEM 3100	Chemistry and the Environment
	GEOL 3020	Natural Disasters (G)
	GEOL 3040	Energy and the Environment (G)
	MATH 3140	Introduction to Systems Modeling
GE Category UD-3 -- Upper Division Arts or Humanities		
	ENG 3400	Analysis of Environmental Discourse (G, WI)
	ENG 3410	Environmental Literature (G)
	PHIL 3014	Environmental Ethics (DI, WI)
Category 4 -- Social Science Discipline Perspectives		
	ECON 2000	The Economy: Problems and Perspectives (G)
	GEOG 2000	Environment and Society (G)
GE Category UD-4 -- Upper Division Social Science		
	GEOG 3501	Environmental Sustainability
	SSCI 3390	Climate Change (G)
Total		12

GE Pathway: Global Connections

The Global Competency General Education (GE) Minor is a new interdisciplinary minor associated with the new Global Connections GE Pathway program. Both have been developed as part of the conversion of the quarter GE curriculum to a new semester GE curriculum structure.

The Global Competency GE Minor encourages students to take more classes within the Global Connections GE Pathway and gain a more in-depth understanding of the connectivity around the globe and how that connectivity has impacted various components of human society.

The minor inspires students who are already completing the Global Connections GE Pathway to take additional classes in the pathway. These other classes lead to a more significant exploration of a particular facet of global connectivity the student found interesting when completing the Global Connections GE Pathway. For example, if a student is a part of the Global Connections GE Pathway and then becomes very interested in global connectivity and governance issues, they can take additional classes from the pathway they have not completed already. The minor allows the student to concentrate on that topic beyond the GE pathway classes. In doing so, students become more globally aware concerning a particular global issue and gain the skills and knowledge at a deeper level to be an actively engaged global citizen.

Pathway Requirements (12 units)

To complete this pathway, students are advised to complete four courses (12 units), one course from each of the following categories:

- At least one course must be a Writing Intensive course (WI)

Former GE Category E -- Foundation Seminar		
	CAL 1120	Global You/U (G)
GE Category UD-3 -- Upper Division Arts & Humanities		
Choose one of the following		
	CAL 3300	Arts and Ideas in A Changing Global World (G)
	CAL 3700	African Arts Heritage (DI, G)
	CAL 3750	Islam in Today's World (DI, G)
	CAL 3888	Asian Humanities in a Globalized World (DI, G)
	COMM 3334	Global Cinema (G)
	ENG 3000	Studies in Global Literatures (DI, G)
	FREN 3900	Voices & Visions from the French-Speaking World (G, WI)
	MUS 3500	Global Music (G)
	PHIL 3013	Human Rights & Global Citizenship (G, WI)
	SPAN 3900	Voices & Visions from the Hispanic World (G, WI)
	WLL 3940	Mediterranean Languages and Identities (DI, G)
	WLL 3950	Languages & Cultures (DI, G)
GE Category 4 -- Social Science Disciplinary Perspectives		
Choose one of the following		
	ANTH 1400	World History to c. 1500 (DI, G)
	or HIST 1400	World History to c. 1500
	ECON 2202	Principles of Macroeconomics (G)
	GEOG 1650	World Regions and Peoples (DI, G)
	HIST 1440	World History from c.1500
GE Category UD-4 -- Upper Division Social Science		
Choose one of the following		
	GEOG 5150	Global Governance and the United Nations System (G)
	PA 3150	Society, Business, & Global Governance (DI, G)
	SSCI 3000	Global Issues and Perspectives (DI, G)
	SSCI 3001	Global Issues and Perspectives (DI, G, WI)
Total		12

GE Pathway: World Cultures and Diversity

This pathway introduces students to the construction of cultural similarities and differences among peoples and diverse identities across the world, including ethnic, sexual, economic, religious, and national identities. It fosters an understanding, appreciation, and respect for cultural differences by examining the production of art, literature, folklore, dance, music, and language, and the development of gender identities, belief systems and worldview, among other expressions, as well as their relationship to broader historical, economic, and political processes. Students will acquire cultural competency, cultivate sensitivity, and ethical responsibility, while also gaining a perspective on themselves and their local community.

Essential Questions include: 1. How are cultures and diversity created, maintained, expressed, and changed?; 2. How are diverse identities constructed in relation to historical, political, and economic processes on local and global scales?; 3. What are the causes and consequences of cross cultural interactions, and how are they interpreted?; 4.How is world diversity manifested through art, literature, folklore, language, religion, worldview, gender identities, as well as material and non-material culture?

Students interested in this pathway, have the option of completing a GE minor. See information on GE Minor: World Cultures and Diversity.

Pathway Requirements (15 units)

To complete this pathway, students are advised to complete five courses (15 units), one course from each of the following categories; Students are advised to take one course from World Languages and Literature and one course from Anthropology.

GE Category 3A -- Arts		3
COMM 1020	Looking at Movies (DI)	
GE Category 3B -- Humanities		
Choose one of the following:		3
ARAB 1112	Beginning Arabic 2 (DI, G)	
ARAB 2900	Arabic Literature in Translation (DI, G)	
CHIN 1112	College Chinese II (DI, G)	
CHIN 2900	Chinese Literature in Translation (DI, G)	
ENG 1200	Multi-Ethnic American Literature (DI)	
ENG 1210	Diversity Literature and Social Justice (DI, WI)	
FREN 1112	Beginning French 2 (DI, G)	
FREN 2900	French Literature and Film in English (DI, G)	
JAPN 1112	Beginning Japanese II (DI, G)	
JAPN 2900	Japanese Literature in English (DI, G)	
KOR 1112	Beginning Korean 2 (DI, G)	
KOR 2900	Korean Literature in English (DI, G)	
PHIL 1014	Introduction to Asian Philosophy (G, WI)	
SPAN 1112	College Spanish 2 (DI, G)	
SPAN 2900	Spanish Literature and Film in English (DI, G)	
GE Category UD-3 -- Upper Division Arts & Humanities		
Choose one of the following:		3
ARAB 3900	Female Voices in Arab American Literature (DI, G, WI)	
CAL 3700	African Arts Heritage (DI, G)	
CAL 3750	Islam in Today's World (DI, G)	
COMM 3334	Global Cinema (DI, G)	
ENG 3000	Studies in Global Literatures (DI, G, WI)	
ENG 3140	Native American and Indigenous Literatures (DI, G)	
FREN 3900	Voices & Visions from the French-Speaking World (DI, G, WI)	
HIST 3380	Ancient Egyptian Art (DI, G)	
HIST 3890	Images of Africa (DI, G)	
JAPN 3900	Voices & Visions from the World of Japanese Anime and Manga (DI, G, WI)	
MUS 3500	Global Music (G)	
SPAN 3900	Voices & Visions from the Hispanic World (DI, G, WI)	
WLL 3940	Mediterranean Languages and Identities (DI, G)	
WLL 3950	Languages & Cultures (DI, G)	
GE Category 4 -- Social Science Disciplinary Perspectives		
Choose one of the following:		3
ANTH 1002	Understanding Cultural Diversity (DI, G)	
ANTH 1400	World History to c. 1500 (DI, G)	
or HIST 1400	World History to c. 1500	
GEOG 1010	Introduction to Human Geography (G)	
GEOG 1650	World Regions and Peoples (DI, G)	
HIST 1440	World History from c.1500 (DI, G)	
GE Category UD-4 -- Upper Division Social Science		
Choose one of the following:		3
ANTH 3603	Gendered Worlds: Power, Difference, and & In/equality (DI, G)	
SSCI 3000	Global Issues and Perspectives (DI, G)	
SSCI 3001	Global Issues and Perspectives (DI, G, WI)	
SSCI 3010	Revolutions and Revolutionary Ideas (DI, G)	
SSCI 3011	Revolutions and Revolutionary Ideas (DI, G, WI)	
Total Units		**15**

Undergraduate Degrees and Programs

The baccalaureate degree that students earn at California State University, San Bernardino will represent work done in three broad areas: General Education, courses in a major and free electives. The General Education program is explained elsewhere in this catalog, and all the courses that comprise the General Education program are listed. It is important to note that not all of these courses will be offered each semester. Students should consult the Class Schedule to find those courses offered during the current semester. Following the General Education requirements are several important process requirements that must be fulfilled in order to obtain an undergraduate degree. This catalog also contains the program requirements and course descriptions required of baccalaureate degrees, minors, certificates and credentials with appropriate contact information at the beginning of each section.

Undergraduate Degree and Program Requirements

Program Requirements for a Bachelor's Degree

To be eligible for the bachelor's degree, a student must:

1. Complete a minimum of 120 semester units of baccalaureate level credit. Some majors require more than 120 semester units, particularly those with integrated teaching tracks.
2. Complete a minimum of 43 semester units in general education distributed in the manner outlined in the section titled General Education Program (p. 48).
3. Complete all requirements for a major, including at least 24 semester units of upper-division course work in the major for a BA and 27 units of semester units of upper-division course work in the major for a BS.
4. Complete at least 30 semester units at this university. (Refer to University Residence Requirement for Graduation, below.)
5. Earn a grade point average of 2.0 ("C") or better in all units used to fulfill the requirements of the major.
6. Earn a grade point average of 2.0 ("C") or better in all units attempted, and in all units attempted at the university.
7. Complete the upper-division Writing Intensive requirement. (See Upper-Division Writing Requirement (p. 48).)
8. Complete the history, constitution and California government requirement. (See History, Constitution, Government Requirement (p. 48).)
9. Be recommended for graduation by the faculty of the university.
10. Have a graduation requirement check (grad check) on file prior to the end of the term of graduation. (See Graduation Requirement Check (http://bulletin.csusb.edu/academic-regulations/).)

Supportive Pathways for First-Year Students Program

In order to help students improve their chances of graduating on time, the California State University system requires all new California resident freshmen students who have not demonstrated college readiness in mathematics and English to take action towards supporting college readiness during enrollment through participation in the Supportive Pathways for First-Year Students Program (SPFYS). The purpose of SPFYS is to give students an opportunity to make progress towards fulfilling their mathematics and English requirements early, so that doing so does not interfere with degree progress. Students may establish their level of readiness in English and mathematics in several ways: through the Early Assessment Program test in the junior year of high school (embedded in the CASPP assessments), or through successful grades in Advanced Placement (AP) or International Baccalaureate (IB) courses. Students who are required to participate in Early Start and who fail to do so will not be eligible to enroll for classes. For more information about the Supportive Pathways for First-Year Students Program, please visit the SPFYS website.

University Residence Requirement for Graduation

A minimum of 30 semester units must be completed at this university. At least 24 of these units must be upper-division, 12 in the major, and 9 in general education. Extension credit, credit by examination or credit by evaluation may not be used to fulfill the minimum residency requirement.

Second Bachelor's Degree Requirements

A student who holds a bachelor's degree from California State University, San Bernardino or another accredited institution and who applies for a second degree must have satisfactorily completed each of the following in order to receive a second bachelor's degree in a different major:

1. General education requirements as stated in the appropriate catalog;
2. Upper-division Writing Intensive requirement completed with a grade of "B" (3.0) or better;
3. Requirements of the major involved;
4. In addition to whatever work was presented for the first bachelor's degree, a minimum of 30 semester units of residence work of which
   a. 12 units must be in the second major,
   b. 9 units must be in general education (international students only),
   c. 24 units must be at the upper-division level;
5. Maintain a 2.5 grade point average in all work attempted;
6. Approval of the faculty of the university.

It is not necessary to complete a second bachelor's degree in order to graduate with a dual major. Students seeking a second bachelor's degree will be subject to the registration policies in effect for unclassified postbaccalaureates. See Fees (p. 111) for further information about fees for a second major.

Multiple Majors/Concentration

A student will normally meet graduation requirements for a degree in one of the major curricula. A student may be granted a bachelor's degree with two or more concentrations if the complete requirements of all curricula are satisfied at the same time, provided the concentration has a minimum of 9 semester units (12 quarter units) that are unique to the program. Students graduating with multiple concentrations will not be issued separate diplomas. The fact that the requirements of multiple concentrations with the same degree have been completed will be noted on the transcript.

Undergraduate Degrees

College of Arts & Letters

- Bachelor of Arts in Liberal Arts (p. 147)

Department of Art

- Bachelor of Arts in Art (p. 160)
- Bachelor of Arts in Art History
- Bachelor of Arts in Design Studies (p. 162)
- Bachelor of Arts in Studio Art Studies (p. 162)
- Bachelor of Fine Arts in Art (p. 163)
- Bachelor of Fine Arts in Design (p. 164)
- Bachelor of Science in Design (p. 165)

Department of Communication & Media

- Bachelor of Arts in Communication (p. 172)
- Bachelor of Arts in Journalism (p. 174)
- Bachelor of Arts in Leadership Communication (p. 175)

Department of English

- Bachelor of Arts in English (p. 186)
- Bachelor of Arts in Speech-Language Pathology (p. 188)
- Bachelor of Science in Computational Linguistics and Artificial Intelligence (p. 189)

Department of Music

- Bachelor of Arts in Music (p. 198)
- Bachelor of Music (p. 201)

Department of Philosophy

- Bachelor of Arts in Philosophy (p. 207)

Department of Theatre Arts

- Bachelor of Arts in Theatre Arts (p. 211)

Department of World Languages & Literatures

- Bachelor of Arts in Arabic Language, Literature, & Culture (p. 218)
- Bachelor of Arts in Spanish (p. 219)

Liberal Studies Office

- Bachelor of Arts in Liberal Studies (p. 227)

College of Natural Sciences

- Bachelor of Science in Natural Science (p. 233)

Department of Biology

- Bachelor of Science in Bioinformatics (p. 239)
- Bachelor of Science in Biology (p. 238)

Department of Chemistry & Biochemistry

- Bachelor of Arts in Chemistry (p. 244)
- Bachelor of Science in Bioinformatics (p. 239)
- Bachelor of Science in Chemistry (p. 246)

Department of Geological Sciences

- Bachelor of Arts in Geology (p. 253)
- Bachelor of Science in Geology (p. 255)

Department of Health Science & Human Ecology

- Bachelor of Science in Environmental Health Science (p. 262)
- Bachelor of Science in Health Science (p. 263)
- Bachelor of Science in Health Services Administration (p. 264)
- Bachelor of Science in Public Health (p. 265)
- Bachelor of Science in Nutritional Science & Dietetics (p. 266)

Department of Kinesiology

- Bachelor of Science in Kinesiology (p. 271)

Department of Mathematics

- Bachelor of Arts in Mathematics (p. 279)
- Bachelor of Science in Mathematics (p. 279)

Department of Nursing

- Bachelor of Science in Nursing (p. 289)
- Bachelor of Science in Nursing - RN to BSN Bridge Program (p. 289)

Department of Physics

- Bachelor of Arts in Physics (p. 293)
- Bachelor of Science in Physics (p. 293)

School of Computer Science & Engineering

- Bachelor of Arts in Computer Systems (p. 300)
- Bachelor of Science in Data Science (p. 301)
- Bachelor of Science in Bioinformatics (p. 239)
- Bachelor of Science in Computer Engineering (p. 301)
- Bachelor of Science in Computer Science (p. 302)

College of Social & Behavioral Sciences

- Bachelor of Arts in Social Sciences (p. 311)

Department of Anthropology

- Bachelor of Arts in Anthropology (p. 319)

Department of Child, Adolescent, & Family Studies

- Bachelor of Arts in Child Development (p. 323)

Department of Criminal Justice

- Bachelor of Arts in Criminal Justice (p. 368)
- Bachelor of Science in Intelligence & Crime Analysis (p. 369)

Department of Economics

- Bachelor of Science in Quantitative Economics (p. 326)
- Bachelor of Arts in Political Economy (p. 328)

Department of Ethnic Studies

- Bachelor of Arts in Ethnic Studies (p. 330)

Department of Geography & Environmental Studies

- Bachelor of Arts in Environmental Studies (p. 333)
- Bachelor of Arts in Geography (p. 335)

Department of History

- Bachelor of Arts in History (p. 340)
- Bachelor of Arts in Public History (p. 343)

Department of Political Science

- Bachelor of Arts in Political Science (p. 350)

Department of Psychology

- Bachelor of Arts in Psychology (p. 359)

Department of Social Work

- Bachelor of Arts in Social Work (p. 378)

Department of Sociology

- Bachelor of Arts in Sociology (p. 363)

Interdisciplinary Studies

- Bachelor of Arts with Special Major (p. 86)

Jack H. Brown College of Business & Public Administration

- Bachelor of Arts in Administration (p. 383)
- Stater Bros. Markets Bachelor of Arts in Applied Business (p. 476)

Department of Information & Decision Sciences

- Bachelor of Science in Information Systems & Technology (p. 398)

Department of Marketing

- Bachelor of Arts in Tourism & Hospitality Management (p. 406)

Department of Public Administration

- Bachelor of Arts in Public Service (p. 412)

James R. Watson & Judy Rodriguez Watson College of Education

Department of Educational Leadership & Technology

- Bachelor of Arts in Career & Technical Studies (p. 423)
- Bachelor of Science in Career & Technical Studies (p. 423)

Minors

A minor is a formal aggregate of courses in a designated subject area distinct from and outside of the declared major. In other words, the minor is a pattern of courses similar to but less comprehensive than the major. The number of units required for a minor varies with each department - requirements are listed in each department's section of the catalog. Minors can only be granted for the same term in which the student graduates with an undergraduate degree. Minors will not be automatically dropped if the requirements have not been fulfilled by the term for which the student's graduation is posted. A minor is posted to the official transcript but does not appear on the diploma.

All minors require a 2.00-grade point average, a minimum of nine (9) units of the coursework required for the minor must be completed through regular enrollment at CSUSB, and six (6) units of the coursework required must be upper-division (3000-5999). Some minors require a higher minimum - check with the department for requirements.

Undergraduate students may submit a minor request through their myCoyote Student Center (https://my.csusb.edu). If the requested minor is in the same department as the major, the department chair's approval will be required.

College of Arts & Letters

- Minor in Asian Studies (p. 150)
- Minor in Disability Studies (p. 151)
- Minor in Entrepreneurship in the Arts (p. 152)
- Minor in Immersive Storytelling, Design, & Innovative Marketing Communication (p. 154)
- Minor in Latin American Studies (p. 152)

Department of Art & Design

- Minor in Animation & Illustration (p. 166)
- Minor in Art History (p. 166)
- Minor in Digital Arts (p. 166)
- Minor in Studio Art (p. 166)
- Minor in Video and Photography (p. 167)

Department of Communication & Media

- Minor in Communication (p. 176)
- Minor in Digital Filmmaking (p. 176)
- Minor in Film Studies (p. 177)
- Minor in Media Studies (p. 176)
- Minor in Relational & Organizational Communication (p. 178)
- Minor in Strategic Communication (p. 178)

Department of English

- Minor in Border Studies (p. 190)
- Minor in Creative Writing (p. 191)
- Minor in English (p. 191)
- Minor in English Teacher Preparation (p. 193)
- Minor in Linguistics (p. 193)
- Minor in Multimedia Storytelling (p. 193)
- Minor in Speech-Language Pathology (p. 194)

Department of Music

- Minor in Alternative Styles of Music (p. 204)
- Minor in Music (p. 205)
- Minor in Music Technology (p. 205)

Department of Philosophy

- Minor in Applied Ontology (p. 208)
- Minor in Law and Philosophy (p. 208)
- Minor in Philosophical Logic (p. 209)
- Minor in Philosophy (p. 209)

Department of Theatre Arts

- Minor in Dance (p. 212)
- Minor in Theatre Arts (p. 215)

Department of World Languages & Literatures

- Minor in Arabic (p. 221)
- Minor in French (p. 221)
- Minor in Japanese (p. 222)
- Minor in Spanish (p. 222)
- Minor in World Literatures (p. 223)

College of Natural Science

- Minor in Entrepreneurship in the Sciences (p. 235)

Department of Biology

- Minor in Biology (p. 240)

Department of Chemistry and Biochemistry

- Minor in Chemistry (p. 247)

Department of Geological Sciences

- Minor in Geology (p. 256)

Department of Health Science & Human Ecology

- Minor in Sustainable Food Systems (p. 267)

Department of Kinesiology

- Minor in Kinesiology (p. 274)

Department of Mathematics

- Minor in Mathematics (p. 281)
- Minor in Statistics (p. 283)

Department of Physics

- Minor in Applied Physics (p. 294)
- Minor in Astronomy (p. 294)
- Minor in Physics (p. 295)

School of Computer Science & Engineering

- Minor in Computer Science (p. 303)
- Minor in Data Science (p. 304)

College of Social & Behavioral Sciences

- Minor in Aerospace Studies (p. 312)
- Islamic and Middle Eastern Studies Minor (p. 312)

Department of Anthropology

- Minor in Anthropology (p. 320)

Department of Child, Adolescent, & Family Studies

- Minor in Child Development: Child and Adolescent (p. 325)
- Minor in Child Development: Early Childhood (p. 325)
- Minor in Child Development: General Track (p. 325)

Department of Economics

- Minor in Economics (p. 328)
- Minor in Political Economy (p. 329)

Department of Ethnic Studies

- Minor in Ethnic Studies (p. 331)
- Minor in Ethnic Studies - Chicana/o/x, Latina/o/x Studies (p. 331)

Department of Geography & Environmental Studies

- Minor in Environmental Studies (p. 337)
- Minor in Geographic Information Science (p. 337)
- Minor in Geography (p. 337)
- Minor in Global Studies (p. 338)

Department of History

- Minor in History (p. 345)

Department of Political Science

- Minor in Political Science (p. 351)
- Minor in Pre-Law (p. 352)

Department of Psychology

- Minor in Psychology (p. 361)

Department of Sociology

- Minor in Sociology (p. 363)

School of Criminology & Criminal Justice

- Minor in Criminal Justice (p. 370)

Jack H. Brown College of Business & Public Administration

- Minor in Business Administration (p. 388)

Department of Accounting & Finance

- Minor in Accounting (p. 393)
- Minor in Finance (p. 393)
- Minor in Real Estate (p. 394)

Department of Information & Decision Sciences

- Minor in Business Analytics (p. 399)
- Minor in Information Systems & Technology (p. 399)
- Minor in Supply Chain Management (p. 399)

Department of Management

- Minor in Human Resource Management (p. 405)
- Minor in Management (p. 405)

Department of Marketing

- Minor in Hospitality Management (p. 407)
- Minor in International Business (p. 407)
- Minor in Marketing (p. 407)
- Minor in Sports and Entertainment Marketing (p. 408)

Department of Public Administration

- Minor in Nonprofit Management (p. 412)
- Minor in Public Service (p. 412)

School of Entrepreneurship

- Minor in Entrepreneurship (p. 415)

James R. Watson & Judy Rodriquez Watson College of Education

Department of Education Leadership & Technology

- Minor in Career & Technical Education (p. 432)
- Minor in Special Education (p. 453)

Department of Special Education, Rehabilitation & Counseling

- Minor in Counseling & Social Change (p. 451)

Department of Teacher Education & Foundations

- Minor in Gender & Sexuality Studies (p. 465)

Academic Success & Undergraduate Advising

- GE Minor: Digital Literacy (p. 59)
- GE Minor: Diversity and Social Justice (p. 59)
- GE Minor: Environmental Sustainability (p. 60)
- GE Minor: Foundations of Change & Discovery (p. 60)
- GE Minor: Global Connections (p. 61)
- GE Minor: World Cultures and Diversity (p. 62)

Certificates

The university offers a variety of programs leading to a certificate of competency in special areas. Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to impart specified professional/vocational/career competencies, or produce mastery of the content of a sub-field of an academic major (discipline), or provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Courses offered for the certificate may be the same ones used to satisfy major, minor, credential or general education requirements. In order to qualify for a certificate, undergraduate candidates must earn a grade point average of 2.0 ("C") or better in applicable course work. Post-baccalaureate candidates must earn a grade point average of 2.5. Standards for individual programs may exceed this minimum. Candidates must also receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

The certificate is awarded upon confirmation that the requirements for that program have been satisfied. The candidate is responsible for filing an application with the Office of the Registrar for granting of the certificate, no later than the last term of certificate-applicable study, and for notifying the coordinator of the certificate program of completion of required course work. The awarding of a certificate will be noted on the student's transcript.

Further information regarding the certificates offered by the university can be found under the appropriate department. Jump to the post-baccalaureate certificates (p.) at the bottom

College of Arts & Letters

- Certificate in Arts & Entrepreneurship (p. 167)
- Certificate in Asian Studies (p. 154)
- Certificate in Immersive Storytelling, Design, & Innovative Marketing Communication (p. 155)

Department of Art & Design

- Certificate in Art & Restorative Justice (p. 168)

Department of Communication & Media

- Certificate in Social Media Entrepreneurship & Innovation (p. 178)

Department of English

- Certificate in Creative Writing (p. 194)
- Certificate in Disability Studies (p. 154)
- Certificate in Public & Professional Writing (p. 196)
- Graduate Certificate in Speech-Language Pathology Master's Preparatory (p. 195)
- Graduate Certificate in Teaching English as a Second Language (p. 195)
- Graduate Certificate in Teaching Writing (p. 196)

Department of World Languages & Literatures

- Certificate in Arabic (p. 224)
- Certificate in California Indian Languages & Cultures (p. 224)
- Certificate in Criminal Justice Spanish (p. 225)
- Certificate in Healthcare Spanish (p. 226)
- Certificate in Japanese Language & Culture (p. 225)

- Certificate in Spanish for Business Management & Public Administration (p. 226)

College of Natural Science

Department of Biology

- Certificate in Biotechnology (p. 241)

Department of Geological Sciences

- Certificate in Paleontology (https://catalog.csusb.edu/colleges-schools-departments/natural-sciences/geological-sciences/paleontology-cert/)

Department of Health Science & Human Ecology

- Certificate in Dietetic Internship (p. 267)
- Certificate in Health Services Administration (p. 269)
- Certificate in Health Equity (p. 268)
- Graduate Certificate in Health Services Administration (p. 268)
- Graduate Certificate in Public Health (p. 270)

Department of Mathematics

- Certificate in Introductory Actuarial Science (p. 283)
- Certificate in Introductory Mathematics (p. 283)

Department of Nursing

- Graduate Certificate in Advanced Community/Public Health Nursing (p. 291)
- Graduate Certificate in Nurse Educator (p. 291)

School of Computer Science and Engineering

- Certificate in (p. 304)Artificial Intelligence and Machine Learning Applications (p. 304)
- Certificate in Computer Science for K-12 Educators (p. 304)
- Certificate in Computer Systems and Programming (p. 305)
- Certificate in Data Science (p. 305)
- Certificate in Mobile Application Development (p. 305)

College of Social & Behavioral Sciences

- Certificate in Native Nations/Indigenous People (p. 315)

Department of Anthropology

- Certificate in Archaeology (p. 321)

Department of Geography & Environmental Studies

- Certificate in Geographic Information Systems (p. 336)

Department of History

- Certificate in Islamic & Middle Eastern Studies (p. 314)
- Certificate in Museum Studies (p. 348)

Department of Political Science

- Certificate in International Relations (p. 351)
- Graduate Certificate in National Cybersecurity Studies (p. 353)

Department of Sociology

- Certificate in Gerontology (https://www.csusb.edu/sociology/majors-and-programs/gerontology-certificate/)

School of Criminology & Criminal Justice

Jack H. Brown College of Business & Public Administration

Department of Accounting & Finance

- Certificate in Accounting (p. 395)

Department of Marketing

- Graduate Certificate in Hospitality & Tourism Management (https://catalog.csusb.edu/colleges-schools-departments/business-public-administration/postgrad-hospitality-tourism-certificate/)

Department of Information & Decision Sciences

- Certificate in Applied ERP (p. 400)
- Certificate in Cyber Security (p. 400)
- Certificate in Cyber Security Professional (p. 401)
- Certificate in Data Science (p. 305)
- Certificate in Information Systems Management (p. 401)
- Certificate in Supply Chain Management (p. 401)
- Graduate Certificate in Applied ERP (p. 400)

James R. Watson & Judy Rodriquez Watson College of Education

Department of Special Education, Rehabilitation & Counseling

- Graduate Certificate in Rehabilitation Counseling (p. 453)

Department of Teacher Education & Foundations

- Certificate in Gender and Sexuality Studies (p. 467)
- Graduate Certificate in E-Learning (p. 433)
- Graduate Certificate in Educational Technology (p. 433)
- Teaching Certificate in Ethnic Studies (p. 467)

Credentials

- Administrative Preliminary Services Credential (p. 429)
- Administrative Services Preliminary (Internship) Credential (p. 428)
- Administrative Services Professional (p. 430)
- Pupil Personnel Services Credential: School Psychology (p. 451)

Basic Teaching Credential Programs

Accredited by the National Council for Accreditation of Teacher Education (NCATE)

- Adapted Physical Education Added Authorization (p. 458)
- Designated Subjects Career and Technical Education (p. 431)
- Designated Subject Credential in Adult Education (p. 430)
- Internship Education Specialist Credential: Early Childhood Special Education with EL Authorization (p. 443)
- Internship Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization (p. 439)
- Internship Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization (p. 441)
- Multiple Subject (p. 459)
- Preliminary Education Specialist Credential: Early Childhood Special Education with EL Authorization (p. 445)
- Preliminary Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization (p. 447)
- Preliminary Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization (p. 449)
- Single Subject - Student Teaching Track (p. 463)
- Single Subject - Intern Track (p. 462)

Programs

ROTC

Air Force Reserve Officer Training Corps (AFROTC) is a nationwide program that allows students to earn a commission as an officer in the United States Air Force (USAF) or Space Force (USSF) while simultaneously attending college. AFROTC consists of four years of Aerospace Studies classes covering the Foundations of the USAF, the Evolution of USAF and Space Power, Air Force Leadership Studies, and National Security Affairs/Preparation for Active Duty. Students will also attend a corresponding Leadership Laboratory each semester focusing on leadership skills, effective communication, physical fitness, and military customs and courtesies. College students enrolled in the AFROTC program who successfully complete both AFROTC training and college degree requirements will graduate and simultaneously commission as Second Lieutenants in the Active Duty USAF or USSF. Classes are offered at California State University, San Bernardino; however, students at many other area universities may enroll using our crosstown agreement. All eligible crosstown universities along with AFROTC program information can be found at Air Force ROTC at CSUSB (https://www.csusb.edu/afrotc/). For questions contact the Aerospace Studies Department, FO-144, (909) 537-5440. AFROTC course descriptions (p. 504) are listed in the Courses A-Z section of this bulletin. Program details are listed under the College of Social and Behavioral Sciences Programs (p. 315).

The **Army ROTC** is a two or four year program which leads to a commission in the U.S. Army and trains students for positions of responsibility in the active Army, Army Reserve, or National Guard. The university has the only ROTC program in San Bernardino and Riverside counties. Scholarships, simultaneous enrollment in the National Guard or Army Reserve, specialized summer training, and other challenging activities are some of the benefits of the program. Students may attend ROTC classes on this campus, and attend any of the other two- or four-year colleges in the area. For more information about Army ROTC at CSUSB (https://www.csusb.edu/army-rotc/), contact the ROTC Office, FO-124 and 125, (909) 537-5533. Army ROTC course descriptions (p. 709) are listed in the Courses A-Z section of this bulletin. Program details are listed under the College of Social and Behavioral Sciences Programs (p. 316).

Graduate Degrees & Programs

Office of Graduate Studies

College of Education, Room 356
(909) 537-5058 Graduate Studies website (http://gradstudies.csusb.edu)
Caroline Vickers, Associate Dean

Post-baccalaureate students are those who already hold a bachelor's degree and wish to continue their studies; they may be pursuing a certificate, credential, second bachelor's, master's, or doctorate degree. At CSUSB, post-baccalaureate students can choose from more than 40 master's degree programs and concentrations, as well as a wide range of credential and certificate programs. CSUSB is also one of the few California State University campuses to offer a doctoral program in Educational Leadership. As the university grows, its nationally accredited graduate programs continue to gain recognition and garner awards. Most classes are offered at convenient hours for working students. Financial assistance for research and travel is available, as well as grants, loans, and fellowships aimed at supporting doctoral aspirations and creating a more diverse university faculty.

The Office of Graduate Studies encourages graduate education and works to create programs of quality that respond to the needs of students and of the university's service area. Additionally, the office administers the M.A. in Interdisciplinary Studies, and is responsible for the following functions for all graduate programs:

- Waiver petitions for the seven-year limit for course work, the 12 quarter unit/9 semester unit limit for classification, and leaves of absence
- Petitions by all unclassified post-baccalaureate students
- The Graduate Equity Fellowship Program
- The California Pre-Doctoral Program
- The Chancellor's Doctoral Incentive Program
- Thesis, project, and dissertation final acceptance and publication
- Graduate admission

Graduate programs (p. 79) at the university are designed to serve a variety of needs. Some students pursue an advanced degree or a credential program in a professional area to enhance their career mobility; others, to expand their knowledge and understanding and to pursue research in a chosen discipline. The university welcomes both part-time and full-time students. Some programs are available in hybrid or online format. Detailed requirements of each program are listed by department and/or degree in the Graduate Degrees section of this catalog.

Graduate Degree and Program Requirements

Program Notices

Doctorate in Educational Leadership

Students pursuing a doctorate degree in the Educational Leadership program should contact the Office of Doctoral Studies at (909) 537-5651 for information on program requirements.

Graduate Program Standards

The following standards apply to all master's degree approved graduate programs (unless noted above):

1. The program must include at least 30 semester units of upper-division and graduate course work (i.e., courses numbered 3000-7999) taken while in post baccalaureate standing. At least 70% of this work must be in courses organized primarily for graduate students (courses numbered 5000-6999). Students enrolled in Coyote Accelerated Postbaccalaureate Education programs may take up to 12 units of graduate-level coursework while in undergraduate status, and these 12 units can count toward both the undergraduate and graduate degree.
2. Graduate Residency Requirement
   a. At least 21 of 30 semester units must be taken in residence on this campus or proportionally more for programs that exceed 30 semester units.
   b. No more than 9 units from Open University work for the requirement of a 30-unit semester program and proportionally more for programs that exceed 30 semester units may be used toward the graduate degree (e.g., a maximum of 18 semester units may be used in meeting the requirement of a 60-unit semester program if accepted by the program).
   c. A maximum of 25% of of units towards the degree may be awarded by credit by assessment.
   d. All units of a completed CSUSB graduate certificate are transferable to a master's degree with approval from the department and Dean of Graduate Studies.
   e. Summer Semester academic units taken at CSUSB are counted as residence credit.
3. California State University, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.
4. The program must follow the department curriculum in effect at the time the student is officially admitted (classified) in the major program or at the time the program is filed with the program graduate coordinator. Recommendations for any substitutions to the program must be approved in writing by the program coordinator and attached to the program.
5. All courses taken to satisfy the requirements for the degree must be completed with a minimum grade point average of 3.0 ("B") or better, except that a course in which no letter grade is assigned shall not be used in computing the grade point average.
6. The program must include only courses with grades of "C" (2.0) or better. (Grades of "C-" (1.7) or less cannot be used.)
7. The program may not include more than 9 semester units of work taken in unclassified status or before classified status was attained.

8. The program must be completed within a seven-year period. No more than seven years may elapse between the time of registration for the earliest course listed on the program and the completion of all requirements for the degree. Some programs must be completed within a four- or five-year period. (See specific program requirements.)
9. Courses numbered 1000 to 2999 and in the X1000 to X9999 series cannot be applied toward a master's degree. Courses taken to satisfy quantitative or qualitative deficiencies cannot be applied toward a master's degree.
10. A course taken at another college with a grade such as CR, S, or P cannot be accepted on a master's degree study plan unless such a course with such a grade is accepted by that college or university toward a graduate degree.
11. No units used to obtain a previously awarded degree may be used toward the graduate degree except if they are part of an approved curriculum in a blended program such as the Coyote Accelerated Post-baccalaureate Education (CAPE) program.
12. Students may transfer up to 18 units of master's level coursework taken while in credential status as part of the requirements of a CSUSB credential program into a CSUSB master's program with approval from the graduate program and the Dean of Graduate Studies.

Advancement to Candidacy

To advance to candidacy, students and their graduate coordinators should complete a program plan after the student has taken at least 12 semester units but no later than the semester before graduation. Note that the program plan is typically completed through the MyCap, though some programs may have alternate means of completing program plans. Once the program plan is accepted and approved by the student's graduate coordinator, the graduate coordinator will advance the student to candidacy in the "Master's Approved Program Plan" section of the PAWS. When this process is completed, the student is officially advanced to candidacy.

Standards for Graduate Study

In general, graduate study deals with more complex ideas and demands more sophisticated techniques, searching analysis and creative thinking than undergraduate study. Extensive research is required in both primary and secondary sources, and high-quality writing is expected. The student is advised to consider these factors when deciding the amount of course work to be undertaken during any one semester. Post-baccalaureate students will be held to all prerequisites for all courses.

All students are required to maintain a 3.0 ("B") grade-point average in all courses taken to satisfy the requirements for the degree, except that a course in which no letter grade is assigned shall not be used in computing the grade point average. Students should check with their program for program-specific requirements.

Basic teaching credentials, single or multiple subject, accept no grade lower than a "B-" in all work attempted with the exception of the designated subjects credential which requires a 2.5 grade point average in all work. Students should check with their program for program-specific requirements.

Academic Notice. Failure to maintain the appropriate grade point average will result in the student's being placed on academic notice. Students on academic notice must rectify their grade point deficiencies by the end of the semester of notification of academic notice status; students who do not raise their GPA may be subject to disqualification.

To apply for reinstatement to a graduate degree or credential program after disqualification, the student must petition the appropriate program graduate committee.

A student who has been disqualified from a master's degree program may be admitted to another program only on the recommendation of the department to which the student has applied and with the approval of the Dean of Graduate Studies.

Nursing students seeking a second bachelor's degree must maintain a 2.5 grade point average in all work attempted. Students in this category who are dismissed from the university for failure to maintain these standards must petition the Dean of Graduate Studies for readmission to the university.

Administrative Academic Disqualification

A graduate student may also be placed on academic notice or may be disqualified by appropriate campus authorities for unsatisfactory scholastic progress regardless of cumulative grade point average or progress in the program. Such action shall be limited to those arising from repeated withdrawal, failure to progress toward an educational objective and noncompliance with an academic requirement and shall be consistent with guidelines issued by the chancellor.

Retroactive Withdrawal

Requests for withdrawal from a course(s) following the close of the term (retroactive withdrawal) will be considered only for: accident or illness (physical or mental), serious personal or family problems, or military transfer. Documentation is required. In addition, extenuating circumstances must be shown to have prevented withdrawal in a timelier fashion. Partial withdrawal of grades during a term is not permissible for any reason. All courses must be withdrawn and will be noted with a "W" on the official transcript. Lack of awareness of the withdrawal procedures is not an extenuating circumstance.

Employment-related reasons are not acceptable.

Requests by graduate students, unclassified post baccalaureate and credential candidates must be made in writing to the Dean of Graduate Studies, CE-356. Contact the Office of Graduate Studies for the appropriate form at gradstud@csusb.edu. Documentation is required.

Full Time Academic Load

Full time academic status for a post-baccalaureate or graduate student is six units of 5000 through 7000-level courses, following the unit loads used for veteran certification (see Enrollment Verification).

Course Overloads: To enroll in more than 15 units in any one semester, a student must have approval of the graduate coordinator of his/her graduate program. Course Overload Permit Cards are available at the Office of the Registrar Information Center, UH-171 and from the department office. Additional units may be added once "Late Registration" begins, if classes remain open and the overload is approved. Students who must work to support themselves, who have time-consuming family responsibilities, who commute long distances, or who are in other difficult circumstances should, in conjunction with their advisors, weigh these factors and alter their course loads accordingly. Financial aid recipients should consult the Financial Aid Office for their definition of eligibility.

Late Registration

The dates of late registration each term will be announced in the *Class Schedule*. The Academic Calendar (p. 27) lists registration dates. Late registrants may find themselves handicapped in arranging their programs due to closed classes. A $25 late registration fee is required.

Adding Classes

During the Open Enrollment and Schedule Adjustment period (see *Class Schedule* for specific dates) students may add classes by following the Registration Instructions detailed in the *Class Schedule*. It is important to note that students who add a class or classes after the first scheduled class session may find themselves at a distinct disadvantage in terms of doing well in the class(es). Students should also be aware that they are responsible for any material they may have missed as a result of adding after the first day.

Grade/Grievance/Complaint Procedures

Student Affairs website (https://www.csusb.edu/registrar/records/grade-grievance/)

Information concerning academic or nonacademic matters may be obtained from the Office of Graduate Studies. Generally, a grade grievance must be initiated by the student within no more than 40 calendar days after the grade is recorded. The complete policy statement is available from the Office of Graduate Studies, CE-356.

Information concerning non-academic grievances and discrimination complaints against the university and its employees by a student may be obtained from the Office of the Vice President for Student Affairs, UH-231, the Women's Resource Center, the Adult Re-Entry Center, the Cross-Cultural Center, Vice Presidents' offices, and College Deans' offices. A grievance or complaint must be filed within no more than 40 calendar days after the student learned or reasonably should have learned of the occurrence of the grievance/complaint event.

Election of Graduation Requirements

A student remaining in continuous attendance in regular sessions and continuing in the same graduate curriculum in the university may, for the purposes of meeting graduation requirements, elect to meet

1. those requirements in effect at the time the student is admitted into a formal graduate program and enters the curriculum, or
2. those requirements in effect at the time of graduation from the university.

Substitutions for discontinued courses may be authorized or required by the department or college graduate committee and by the graduate program coordinator.

Changing Master's Degree Programs and Concentrations

Each master's program and/or concentration may have its own professional, personal, scholastic, and other standards for graduate study, including qualifying examinations. All graduate students desiring to change (or add) a master's, concentration or credential program must submit either a Graduate Change of Program form or a new application on CSU Apply. Please contact the Office of Graduate Studies, CE-356 for information regarding changing or adding a specific graduate program.

Two Master's Degrees

Students who wish to secure two different master's degrees may do so if the program allows it. At the discretion of the program, credits from one master's degree may be applicable to a second master's degree up to the maximum number of transfer units allowed within each program. In no case shall a student be awarded a given master's degree more than once. Students interested in obtaining two master's degrees should contact Graduate Studies at gradstud@csusb.edu.

Culminating Experience: Examination, Thesis, or Project

Comprehensive Examinations. Each program that offers the comprehensive examination for the master's degree shall implement and maintain in writing explicit guidelines that address both content and procedures relating to the examination. All comprehensive examinations must conform to the following requirement of Title 5, i.e., "A comprehensive examination is an assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking, and demonstrate mastery of the subject matter. The results of the examination provide evidence of independent thinking, appropriate organization, critical analysis, and accuracy of documentation. A record of the examination questions and responses shall be maintained in accordance with the records retention policy of the California State University."

Students must fulfill all department/division requirements for the written and/or oral comprehensive examinations. Such requirements include, but are not limited to, the date and time for the comprehensive examinations, length of testing, topics covered, and the number of questions for the comprehensive examinations.

Students whose program requires a comprehensive examination must declare to their major department/division, at least one semester in advance, their intent to take it, obtain department/division permission, and register for the appropriate comprehensive examination course in their major discipline. Students must consult with their program advisor regarding specific requirements for the comprehensive examination. Those who do not pass the comprehensive examination must fulfill any department, division, and/or college requirements for subsequent enrollments in these examinations.

Continuous Enrollment (Comprehensive Exam). Students who have completed all course work and are preparing for the comprehensive examination must remain in continuous enrollment until their degree is granted. To maintain continuous enrollment, students must register each term for the appropriate continuous enrollment course (Continuous Enrollment for Graduate Candidacy Standing) in their major discipline.

Thesis, Project, and Dissertation Requirements. Students who choose to write a thesis, project, or dissertation as their culminating experience work with a thesis, project, or dissertation committee to meet the specific requirements for their program. For document formatting requirements and archiving procedures, students should consult *A Guide to Thesis, Project, and Dissertation Format* available online on the Graduate Studies website.

Continuous Enrollment (Thesis and Project). Students who have completed all course work and are working on the thesis/project must register for the thesis or project course required in their major discipline for the master's degree. **IMPORTANT NOTE**: Students register **ONLY ONE TIME** for the thesis/project course. If the thesis/project is not

completed in the semester in which the student first registered for the thesis/project course, then the student will receive a grade of RP (Report in Progress) for the course for that semester. The RP grade in the course remains until the thesis/project is completed and approved by the student's thesis/project advisor and the Dean of Graduate Studies, at which time the student's professor will submit a "Change of Grade" form, replacing the RP grade with a letter grade.

In addition, students who have completed all course work and are enrolled in a thesis/project course must also register every semester for one of the 6990-6996 courses (Continuous Enrollment for Graduate Candidacy Standing (https://www.csusb.edu/pace/courses-programs/education/continuous-enrollment-graduate-candidacy-standing/)) in their major discipline until their degree is granted. Earned units are not degree-applicable nor will they qualify for financial aid. This is a variable unit course, see the fee schedule.

Students in the doctoral program will follow their program's procedures for continuous enrollment.

Once officially accepted and processed, master's theses and projects are made available to the public through CSUSB ScholarWorks.

Graduation Requirement Check

Degree candidates must submit an online Graduation Requirement Check (Grad Check) via myCoyote at least one term prior to the end of the term of their expected graduation. Graduate students must request a Grad Check at least one term prior to their expected graduation and have been advanced to candidacy in order to submit an online Grad Check via myCoyote.

Students not completing their degree in the term applied for will need to refile and pay for the later term. Access to registration for terms subsequent to the stated graduation term will not be granted until the graduation check is refiled.

Commencement

Special Events and Guest Services- Commencement Office
(909) 537-7360

Participation in commencement activities is voluntary.

For dates and deadlines, please visit commencement.csusb.edu (http://commencement.csusb.edu/).

Master's and Doctoral Students

To participate in commencement, candidates completing a master's or doctoral degree must file a grad check AND meet the eligibility requirements specified by their program. For the specific requirements, candidates should consult their program coordinator.

Credential Students

Students who complete a Multiple Subject, Single Subject, Education Specialist Basic credential, Pupil Personnel Services, or Designated Subjects credential can participate in a Credential Recognition Ceremony rather than commencement. The Credential Recognition Ceremony on the San Bernardino campus will be held in May. Specific information can be obtained from the College of Education, Student Services Office, CE-102, (909) 537-5609. The Credential Recognition Ceremony on the Palm Desert Campus will be held in May at PDC. Specific information can be obtained from the Palm Desert Campus College of Education Office at (760) 341-2883.

Change in Approved Graduate Program

If during graduate study a master's candidate wishes to change the approved program by adding or removing a course, this may be done under certain circumstances. A request for such a change must be initiated by the student and approved by the graduate coordinator.

Credit by Assessment

Students interested in seeking credit by assessment for prior learning through demonstrated learning, knowledge, or skills acquired through experience must first petition the department chair and instructor for the course for which they are seeking credit to determine if their prior learning experiences align with CSUSB course objectives and degree requirements. Upon approval of the course instructor and department chair, the student must petition the Dean of Graduate Studies. Graduate students shall complete three units in residence before academic credit can be earned by assessment. Department faculty are responsible for evaluating the appropriateness of student requests for credit by assessment. No instructor or department is obligated to offer credit by assessment.

Students may not enroll in a course they plan to challenge and must complete credit by assessment through the office of the college or department concerned before the first day of classes of the term in which the course is offered. Some presumptive evidence is required to indicate that the student has a reasonable chance of passing the assessment. Those students who are unsuccessful in challenging may add the course subject to the regulations for adding a class printed in the *Class Schedule*. A student who passes an assessment is given the grade of CR for that course. No official record is made of failures in these assessments. A fee may be charged for these assessments, and they are available only to currently enrolled students.

Phi Kappa Phi

Academic Affairs Office, AD-101
(909) 537-5024 Phi Kappa Phi website (http://pkp.csusb.edu)

The university has an active chapter of the national honor society of Phi Kappa Phi, whose purpose is the recognition and encouragement of superior scholarship in all academic disciplines. Membership is by invitation issued to selected juniors, seniors and graduate students who have excelled in scholarship and who meet the chapter's requirements. Graduating seniors who are members of Phi Kappa Phi have an opportunity to apply for a Fellowship from the national office to be used towards the first year of graduate study.

Graduate Council

Elected faculty from each college, one graduate student, the Dean of Graduate Studies and the Faculty Senate Chair make up the Graduate Council, which is a Faculty Senate committee. This group discusses all issues of policy and practice related to graduate study at the university.

The Coyote Graduate Student Guidebook

The *Coyote Graduate Student Guidebook* is updated annually by the Office of Graduate Studies with information relevant for graduate students. It is available on the Graduate Studies website.

Concurrent Enrollment

A graduate student enrolled at the university may enroll concurrently for additional courses at another institution only with advance written approval from the graduate program coordinator and the Associate Dean of Graduate Studies. Ordinarily, permission will not be granted when the study load in the proposed combined program exceeds 12 semester units.

Post Baccalaureate Credit for Senior Students

Senior students who need fewer than 12 semester units to graduate may be permitted to enroll for post-baccalaureate credit during the final term of their senior year. Post baccalaureate credit is used to signify courses taken after the baccalaureate degree, but does not necessarily mean graduate credit, i.e., credit applicable toward an advanced degree. Only 4000- to 6000-level courses will be considered. A petition for this purpose is available in the Office of the Registrar. Note: Some 5000- and 6000-level courses require prerequisites and are open only to students classified in a master's program.

Repeat of Course (Discount of Grade)

Classified and conditionally classified graduate students may be permitted to repeat one course at CSUSB that was taken for graduate credit (i.e. that is applied towards a master's degree) one time only by petition to and approval of the college or department graduate committee. The petition requesting this permission includes an automatic request to discount the first attempt. When approved, the original course grade on the student's permanent record will be discounted. Only the second grade earned shall apply to the student's cumulative post-baccalaureate grade point average. The first attempt will show on the transcript with the repeat (discount) noted.

Classified and conditionally classified graduate students may be permitted to repeat a course taken as an undergraduate once with approval of the advisor and only to remove a deficiency. A subsequent repeat must be approved by the college or department graduate committee. In no case shall such credit be counted toward the units required for a master's degree. The second grade earned shall apply toward the student's cumulative post baccalaureate grade point average and shall not replace the grade in the undergraduate record. Subsequent repeats of course will be averaged.

Classified post baccalaureate students (for example, students officially admitted to teaching credential programs) may be permitted to repeat a course taken as an undergraduate only by petition to and approval of the appropriate college or department committee and the grade earned shall not replace the grade in the undergraduate record. Courses taken for post baccalaureate credit may be repeated at CSUSB only by petition to and approval of the appropriate college or department committee. In both cases the second grade earned shall apply to the student's cumulative post baccalaureate grade point average. Subsequent repeats of course will be averaged. A petition, available through the Office of Graduate Studies, CE 356, (909) 537-5058, must be filed and approved.

Leave of Absence

Degree and credential seeking students who plan to be absent from the university must file a leave of absence to preserve their current catalog rights (Title 5, Article 5, See. 40401). A petition, available through the Office of Graduate Studies, CE 356, (909) 537-5058, must be filed and approved. The petition is also available on the Forms page of the Graduate Studies website (https://www.csusb.edu/graduate-studies/forms/).

The leave of absence policy covers both involuntary and voluntary interruptions. In most instances, with an approved leave of absence, a student may be absent from the campus without losing their rights to specific degree requirements under an earlier catalog.

Petitions for leaves of absence should be filed in advance of the interruption in enrollment. Each leave commences with the first regular semester of non-attendance. Medical and military leaves may be considered retroactively if supported by individual circumstances, but those leaves must be filed no later than census date of the first regular semester of non-attendance. Personal and planned educational leaves cannot be retroactive since they constitute an agreement or "contract" which must be set in advance. The maximum duration for any leave is two calendar years.

Leaves of absence will not be approved for students subject to disqualification or dismissal due to academic deficiencies or disciplinary action.

Other students ineligible for leaves of absence are those who are not completing any degree applicable course work, those who are enrolling only in extension courses, those who are only auditing courses, and those who have not yet completed the first semester of their current program.

Students who do not return to CSU, San Bernardino at the conclusion of their planned leaves and those who enroll elsewhere without permission of the Office of the Registrar will be considered to have withdrawn from the university at the end of their last semester of regular enrollment.

International students must submit a copy of the leave of absence petition to the Center for International Studies and Programs (CISP), CE-356. Visa students must be registered as full-time students except, when after one semester of regular enrollment they decide to take a semester off. All leave of absence periods must be approved by CISP prior to taking the leave in order to report the students properly to the Bureau of Citizenship and Immigration Services (BCIS). As a general rule, visa students must go back to their home country when applying for a leave of absence, as their primary goal in the U.S. is to obtain an academic degree.

The following Leaves of Absence may be requested:

Medical Leave of Absence

Requests must be accompanied by a statement from a medical doctor explaining why the student must interrupt enrollment. Exceptions to the two-year limit may be granted under extenuating circumstances.

Military Leave of Absence

CSUSB supports students called to active duty in the U.S. Military. The Military Leave Policy and forms are available from the Veterans Success Center (https://www.csusb.edu/veterans/).

Personal and Planned Educational Leaves of Absence

These leaves are defined as a planned interruption or pause in a student's regular education during which the student temporarily ceases formal studies at CSU, San Bernardino. The student must plan to return to CSU, San Bernardino at the end of the leave. Such activities may be for the purpose of clarifying or enriching educational goals or to allow time to

address personal matters and thus enhance the prospect of successful completion of the student's academic program.

Since students usually maintain their catalog rights, courses completed at other institutions must have received prior approval in order to be transferred back to CSU, San Bernardino. Therefore, a student must also file a concurrent enrollment form with the Office of Graduate Studies to obtain that approval. Failure to file a concurrent enrollment form may result in coursework not being accepted and revised major requirements being required.

Returning from Approved Leave of Absence

When students return from their leave earlier than planned, a readmission form, available through the Office of the Registrar, UH-171, (909) 537-5200, must be submitted within the filing period for the semester of return. No application fee will be assessed for leaves of absence that meet the terms of the leave agreement.

Transcripts

Applicants must furnish unofficial transcripts from each college or university attended. The following unofficial transcripts will be required to determine eligibility:

- Transcripts with earned degree posted
- Transcripts where coursework was completed that counted toward earned degree(s)
- Transcripts with any post-baccalaureate level coursework taken
- Transcript from the last institution attended

A separate transcript from each college or university is required even though one transcript may show work taken at another institution. CSUSB graduates do not need to furnish a CSUSB transcript. Some credential and master's programs may require more than one transcript from each institution. Check with the program for application requirements.

Applicants who are officially admitted to CSUSB are required to submit official transcripts to the Office of Graduate Studies in order to secure their enrollment for the following term.

Admission from Nonaccredited Schools

Graduates of nonaccredited schools who give evidence of unusual promise and superior background may petition the Dean of Graduate Studies for admission as unclassified post baccalaureate students. Such students who wish to enter a specific graduate program must then petition the appropriate school or department for admission to conditionally classified graduate status. Requirements for admission to conditionally classified status shall be determined by the concerned department and approved by the Dean of Graduate Studies.

Limitations of Enrollment

Entrance of post baccalaureate students to any program may be subject to limitations (i.e., each master's degree or credential program may restrict enrollment whenever limitations of facilities and/or staff warrant).

Enrollment Verification

Student enrollment certification is based on the following minimum unit loads for graduate students:

Full Time Master's Student	6 units of graduate-level coursework
Half Time Master's Student	3 units of graduate-level coursework
Full Time Credential Student	12 units
Half Time Credential Student	6 units
Full Time 2nd BA and Certificate Student	12 units
Half Time 2nd BA and Certificate Student	6 units

Veterans Enrollment Certification

California State University, San Bernardino, is approved for the training of veterans of the military services and their dependents under educational assistance programs, established by the state and federal governments. Applications for educational benefits may be obtained directly from the veterans certification clerk. Student enrollment certification is based on the following unit loads:

Full Time Master's Student	6 units of graduate level coursework
Half Time Master's Student	3 units of graduate level coursework
Full Time Credential Student	12 units
Half Time Credential Student	6 units
Full Time 2nd BA and Certificate Student	12 units
Half Time 2nd BA and Certificate Student	6 units

The university will certify course loads to the Veterans Administration based on the criteria above for units which are degree or objective applicable. Veterans enrolled less than half time are eligible for reimbursement of tuition and fees only.

Independent study and self-paced courses will be certified for monthly educational benefits as regular residence courses.

Graduate Degrees

College of Arts & Letters

Department of Art

- Master of Arts in Art (p. 157)
- Master of Fine Arts in Studio Art (p. 158)

Department of Communication & Media

- Master of Arts in Communication Studies (p. 170)

Department of English

- Master of Arts in English & Writing Studies (p. 181)
- Master of Arts in Speech-Language Pathology (p. 184)

Department of World Languages & Literatures

- Master of Arts in Spanish (p. 217)

College of Global & Extended Education

Department of Professional and Continuing Education

- Master of Arts in Teaching English to Speakers of Other Languages (TESOL) (Accelerated) (p. 471)

College of Natural Sciences

- Master of Science in Materials Science (p. 232)

Department of Biology

- Master of Science in Biology (p. 237)

Department of Chemistry & Biochemistry

- Master of Science in Environmental Sciences (p. 242)

Department of Geological Sciences

- Master of Science in Geology (p. 252)
- Master of Science in Environmental Sciences (p. 242)

Department of Health Science & Human Ecology

- Master of Public Health (p. 258)
- Master of Science in Health Services Administration (p. 259)
- Master of Science in Nutrition Science (p. 261)

Department of Mathematics

- Master of Arts in Mathematics (p. 277)

Department of Nursing

- Master of Science in Nursing (p. 287)
- Doctor of Nursing Practice (p. 286)

School of Computer Science & Engineering

- Master of Science in Applied Data Science (p. 297)
- Master of Science in Computer Science (p. 298)

College of Social & Behavioral Sciences

- Master of Arts in National Security Studies (p. 308)
- Master of Science in National Cyber Security Studies (p. 309)

Department of Anthropology

- Master or Arts in Applied Archaeology (p. 318)

Department of Child, Adolescent, & Family Studies

- Master of Arts in Child Development (p. 322)

Department of Criminal Justice

- Master of Arts in Criminal Justice (p. 367)

Department of Psychology

- Master of Arts in Psychological Science (p. 355)
- Master of Science in (p. 357) Clinical/Counseling Psychology (p. 357)
- Master of Science in Industrial & Organizational Psychology (p. 358)

Department of Social Work

- Master of Social Work (p. 373)
- Master of Social Work & Master of Public Administration Concurrent Degrees (p. 377)

Jack H. Brown College of Business & Public Administration

- Master of Business Administration (p. 381)

Department of Accounting & Finance

- Master of Science in Accountancy (p. 390)
- Master of Science in Finance (p. 392) (offered through the College of Extended & Global Education (https://www.csusb.edu/pace/))

Department of Information & Decision Sciences

- Master of Science in Information Systems Technology (p. 396)
- Master of Science in Business & Data Analytics (https://catalog.csusb.edu/colleges-schools-departments/business-public-administration/information-decision-sciences/bus-data-ms/) (offered through the College of Extended & Global Education (https://www.csusb.edu/pace/))
- Master of Science in Cybersecurity (p. 473) (offered through the College of Extended & Global Education (https://www.csusb.edu/pace/))
- Master of Science in Logistics & E-Commerce (p. 474) (offered through the College of Extended and Global Education (https://www.csusb.edu/pace/))

Department of Management

- Master of Science in Human Resource Management (p. 403)
- Master of Science in Industrial and Engineering Management (p. 404)

Department of Public Administration

- Master of Public Administration (p. 409)
- Master of Social Work and Master of Public Administration Concurrent Degrees (p. 377)

School of Entrepreneurship

- Master of Science in Entrepreneurship & Innovation (p. 414)

James R. Watson & Judy Rodriguez Watson College of Education

- Doctor of Education in Educational Leadership, Community College Specialization (p. 418)
- Doctor of Education in Educational Leadership, PK-12 Specialization (p. 420)

Department of Educational Leadership & Technology

- Master of Arts Career & Technical Education (p. 424)
- Master of Arts in Instructional Design & Technology (p. 427)
- Master of Arts in Educational Administration (p. 425)

Department of Special Education, Rehabilitation & Counseling

- Master of Arts in Rehabilitation Counseling (p. 435)
- Master of Science in Counseling (p. 436)
- Master of Science in Special Education (p. 438)
- Education Specialist Degree in School Psychology (p. 434)

Department of Teacher Education & Foundations

- Master of Arts in Education (p. 454)
- Master of Arts in STEM Education (p. 455)
- Teaching English to Speakers of Other Languages (TESOL) (p. 457)
- Teaching English to Speakers of Other Languages (TESOL) (Accelerated) (p. 471)

Graduate Studies

- Master of Arts in Interdisciplinary Studies (p. 88)

Certificates

The university offers a variety of programs leading to a certificate of competency in special areas. Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to impart specified professional/vocational/career competencies, or produce mastery of the content of a sub-field of an academic major (discipline), or provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Courses offered for the certificate may be the same ones used to satisfy major, minor, credential or general education requirements. In order to qualify for a certificate, undergraduate candidates must earn a grade point average of 2.0 ("C") or better in applicable course work. Post-baccalaureate candidates must earn a grade point average of 2.5. Standards for individual programs may exceed this minimum. Candidates must also receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

The certificate is awarded upon confirmation that the requirements for that program have been satisfied. The candidate is responsible for filing an application with the Office of the Registrar for granting of the certificate, no later than the last term of certificate-applicable study, and for notifying the coordinator of the certificate program of completion of required course work. The awarding of a certificate will be noted on the student's transcript.

Further information regarding the certificates offered by the university can be found under the appropriate department. Jump to the post-baccalaureate certificates (p.) at the bottom

College of Arts & Letters

- Certificate in Arts & Entrepreneurship (p. 167)
- Certificate in Asian Studies (p. 154)
- Certificate in Immersive Storytelling, Design, & Innovative Marketing Communication (p. 155)

Department of Art & Design

- Certificate in Art & Restorative Justice (p. 168)

Department of Communication & Media

- Certificate in Social Media Entrepreneurship & Innovation (p. 178)

Department of English

- Certificate in Creative Writing (p. 194)
- Certificate in Disability Studies (p. 154)
- Certificate in Public & Professional Writing (p. 196)
- Graduate Certificate in Speech-Language Pathology Master's Preparatory (p. 195)
- Graduate Certificate in Teaching English as a Second Language (p. 195)
- Graduate Certificate in Teaching Writing (p. 196)

Department of World Languages & Literatures

- Certificate in Arabic (p. 224)
- Certificate in California Indian Languages & Cultures (p. 224)
- Certificate in Criminal Justice Spanish (p. 225)
- Certificate in Healthcare Spanish (p. 226)
- Certificate in Japanese Language & Culture (p. 225)
- Certificate in Spanish for Business Management & Public Administration (p. 226)

College of Natural Science

Department of Biology

- Certificate in Biotechnology (p. 241)

Department of Geological Sciences

- Certificate in Paleontology (https://catalog.csusb.edu/colleges-schools-departments/natural-sciences/geological-sciences/paleontology-cert/)

Department of Health Science & Human Ecology

- Certificate in Dietetic Internship (p. 267)
- Certificate in Health Services Administration (p. 269)
- Certificate in Health Equity (p. 268)
- Graduate Certificate in Health Services Administration (p. 268)
- Graduate Certificate in Public Health (p. 270)

Department of Mathematics

- Certificate in Introductory Actuarial Science (p. 283)
- Certificate in Introductory Mathematics (p. 283)

Department of Nursing

- Graduate Certificate in Advanced Community/Public Health Nursing (p. 291)
- Graduate Certificate in Nurse Educator (p. 291)

School of Computer Science and Engineering

- Certificate in (p. 304)Artificial Intelligence and Machine Learning Applications (p. 304)
- Certificate in Computer Science for K-12 Educators (p. 304)
- Certificate in Computer Systems and Programming (p. 305)
- Certificate in Data Science (p. 305)
- Certificate in Mobile Application Development (p. 305)

College of Social & Behavioral Sciences

- Certificate in Native Nations/Indigenous People (p. 315)

Department of Anthropology

- Certificate in Archaeology (p. 321)

Department of Geography & Environmental Studies

- Certificate in Geographic Information Systems (p. 336)

Department of History

- Certificate in Islamic & Middle Eastern Studies (p. 314)
- Certificate in Museum Studies (p. 348)

Department of Political Science

- Certificate in International Relations (p. 351)
- Graduate Certificate in National Cybersecurity Studies (p. 353)

Department of Sociology

- Certificate in Gerontology (https://www.csusb.edu/sociology/majors-and-programs/gerontology-certificate/)

School of Criminology & Criminal Justice

Jack H. Brown College of Business & Public Administration

Department of Accounting & Finance

- Certificate in Accounting (p. 395)

Department of Marketing

- Graduate Certificate in Hospitality & Tourism Management (https://catalog.csusb.edu/colleges-schools-departments/business-public-administration/postgrad-hospitality-tourism-certificate/)

Department of Information & Decision Sciences

- Certificate in Applied ERP (p. 400)
- Certificate in Cyber Security (p. 400)
- Certificate in Cyber Security Professional (p. 401)
- Certificate in Data Science (p. 305)
- Certificate in Information Systems Management (p. 401)
- Certificate in Supply Chain Management (p. 401)
- Graduate Certificate in Applied ERP (p. 400)

James R. Watson & Judy Rodriquez Watson College of Education

Department of Special Education, Rehabilitation & Counseling

- Graduate Certificate in Rehabilitation Counseling (p. 453)

Department of Teacher Education & Foundations

- Certificate in Gender and Sexuality Studies (p. 467)
- Graduate Certificate in E-Learning (p. 433)
- Graduate Certificate in Educational Technology (p. 433)
- Teaching Certificate in Ethnic Studies (p. 467)

Credentials

Basic Teaching Credential Programs

Accredited by the National Council for Accreditation of Teacher Education (NCATE)

- Adapted Physical Education Added Authorization (p. 458)
- Designated Subjects Career Technical Education (p. 431)
- Designated Subject Credential in Adult Education (p. 430)
- Internship Education Specialist Credential: Early Childhood Special Education (p. 443)
- Internship Education Specialist Credential: Mild to Moderate Support Needs (p. 439)
- Internship Education Specialist Credential: Extensive Support Needs (p. 441)
- Multiple Subject (p. 459)
- Preliminary Education Specialist Credential: Early Childhood Special Education (p. 445)
- Preliminary Education Specialist Credential: Mild to Moderate Support Needs (p. 447)
- Preliminary Education Specialist Credential: Extensive Support Needs (p. 449)
- Single Subject - Student Teaching Track (p. 463)
- Single Subject - Intern Track (p. 462)

Specialist and Services Credential Programs

- Administrative Services Preliminary (Internship) (p. 428)
- Administrative Services Professional (p. 430)
- Preliminary Administrative Services (p. 429)
- Pupil Personnel Services Credential: School Psychology (p. 451)
- Supervision and Coordination of Designated Subjects Program (p. 431)

Academic Success and Undergraduate Advising

Undergraduate Academic Support Programs

Academic Success and Undergraduate Advising

University Hall, Room 352
(909) 537-5032
(909) 537-7012 (fax)
Academic Success and Undergra (https://www.csusb.edu/undergraduate-studies/)duate Advising (https://www.csusb.edu/academic-success-and-undergraduate-advising/)

Academic Success and Undergraduate Advising (ASUA) is responsible for various programs designed to help students' academic success. Beginning with pre-college students, ASUA hosts the Early Assessment Program, where high school juniors can assess their readiness for college-level English and mathematics coursework. We help coordinate developmental education programs in English and mathematics for students who have not demonstrated college readiness in those subjects by the time they start college, including the Early Start Program and Coyote First STEP (Student Transition Enhancement Program), offered in the summer before first enrollment at CSUSB. For students in the first year of college, ASUA offers the Freshman Seminar (USTD 1000A) and courses in developmental mathematics. Academic Success and Undergraduate Advising coordinates CSUSB's team-based academic advising system, which includes peer advisors, professional advisors, and faculty advisors assigned to every student; we are home to the office of Academic Advising, which is directly responsible for advising students who have yet to declare a major or who find themselves needing to get off of academic probation. ASUA offers extensive opportunities to students for academic assistance and enrichment through Supplemental Instruction, the Student Mentoring Program, the Tutoring Center, the Writing Centers, and PDC's Student Success Studio (S3). Most of the work of ASUA involves supporting students, faculty members, and the various academic colleges. Academic Success and Undergraduate Advising oversees one degree program, the Bachelor of Arts: Special Major, through which qualified students can design their own personalized, interdisciplinary degree program.

CALIFORNIA PROMISE PROGRAM

Academic Advising, (909) 537-7345.

The California Promise Program, established by Senate Bill 412, required the California State University (CSU) system to offer pledge programs designed to facilitate first-time students in completing their baccalaureate degree in either two years (Transfer Students) or four years (First Time Freshman).

Students who commit to enter either the Four-Year or the Two-Year Graduation Pledge program will be given a higher registration appointment for each term and will be provided with routine and thorough academic advisement.

The program is limited to students who are residents of California.

CSU, San Bernardino commits to this promise by establishing the Two-Year Graduation Pledge Program and the Four-Year Graduation Pledge Program. To support students in this endeavor, the university pledges to provide a quality educational experience with an academic schedule and degree requirements, which can be completed by students who are willing to devote their time and energy to full-time enrollment.

Two-Year Graduation Pledge Program

Who is Eligible?

Entering transfer students who: [Apply by deadline established]

- Transferred to CSUSB with an Associate Degree for Transfer (AA-T or AS-T)
- Have a declared major (approved by academic college)

Student's Oblication Once Accepted Into the Program:

Students are required to attend a Graduation Pledge orientation session.

- Students ***may not*** have more than one major declared, as having multiple majors and/or minors will increase the amount of units required and may result in not meeting the two-year graduation deadline.
- Students ***may not*** have more than one minor declared.
- Students ***may not*** have more than one concentration declared, including any concentration required for their major.
- Students must complete an average of at least 15 semester units per term (30 semester units per academic year) to reach the minimum of 120 semester units required for a Bachelor of Arts degree in four years. NOTE: Majors that require more than 120 semester units will need to earn more units per year.
- Students are required to create an Education Plan with their major advisor.
- Students must enroll each term at the assigned on-line registration time. Students enrolling late cannot be assured of getting courses needed.
- Maintain a 3.0 CSUSB grade point average after each term.
- Meet regularly with their department academic advisor, follow the agreed upon Education Plan each term.
- Impacted majors must be accepted into their major according to the department's established schedule.
- Take courses at times (day or evening) when they are offered and/or available and in correct sequence. Note: Students who change their major or concentration or who take a leave of absence may not necessarily be able to graduate in four years. Approval from the Graduation Pledge Coordinator is required to change majors and for reinstatement into the Four-Year Graduation Pledge after a leave of absence. If approved, a new, advisor-approved, Education Plan demonstrating four-year graduation MUST be submitted to Academic Advising.
- Demonstrate accountability by complying with all administrative and academic policies and procedures. Non-compliance will result in cancellation of the pledge agreement.
- Students MUST file their Graduation Check no later than the Fall term of their 2nd and final academic year.

What is the University’s Pledge?

- California State University, San Bernardino pledges to provide sufficient classes for the Graduation Pledge Program students in order for them to graduate in two years. All Two-Year Graduation Pledge Program students will receive a higher registration appointment date based on their academic standing monitored by the office of Academic Advising. (909) 537-7345. Email: gradpledge@csusb.edu.
- Participants who continue to meet eligibility (see above) must utilize their designated registration appointment and time to ensure timely advancement toward graduation.

Four-Year Graduation Pledge Program

- **Who is Eligible?**

  Entering freshmen who: [Apply (https://www.csusb.edu/advising/programs/four-year-graduation-pledge/) by deadline established]

- Have declared a major *(and concentration if applicable).*
- Have met all entrance requirements for the major.
- **Student's Oblication Once Accepted Into the Program:**

  Students are required to attend a Graduation Pledge orientation session.

- Students ***may not*** have more than one major declared, as having multiple majors and/or minors will increase the amount of units required and may result in not meeting the four-year graduation deadline.
- Students ***may not*** have more than one minor declared.
- Students ***may not*** have more than one concentration declared, including any concentration required for their major.
- Students must complete an average of at least 15 semester units per term (30 semester units per year) to reach the minimum of 120 semester units required for a Bachelor of Arts degree in four years. NOTE: Majors that require more than 120 semester units will need to earn more units per year.
- Students are required to create an Education Plan with their academic advisor.
- Students must enroll each term at the assigned on-line registration time. Students enrolling late cannot be assured of getting courses needed.
- Maintain a 3.0 CSUSB grade point average after each term.
- Meet regularly with their academic advisor and follow the agreed upon Education Plan each term.
- Impacted majors must be accepted into their major according to the department's established schedule.
- Take courses at times (day or evening) when they are offered and/or available and in correct sequence. Note: Students who change their major or concentration or who take a leave of absence may not necessarily be able to graduate in four years. Approval from the Graduation Pledge Coordinator is required to change majors and for reinstatement into the Four-Year Graduation Pledge after a leave of absence. If approved, a new, advisor-approved, Education Plan demonstrating four-year graduation MUST be submitted to Academic Advising.
- Demonstrate accountability by complying with all administrative and academic policies and procedures. Non-compliance will result in cancellation of the pledge agreement.
- Students MUST file their Graduation Check no later than the Fall term of their 4th and final academic year.
- **What is the University's Pledge?**

- California State University, San Bernardino pledges to provide sufficient classes for the Graduation Pledge Program students in order for them to graduate in four years. All Four-Year Graduation Pledge Program students will receive a higher registration appointment date based on their academic standing monitored by the office of Academic Advising. (909) 537-7345. Email: gradpledge@csusb.edu.
- Participants who continue to meet eligibility (see above) must utilize their designated registration appointment date and time to ensure timely advancement toward graduation.

Academic Advising

University Hall, Room 329
(909) 537-7345 Academic Advising website (https://www.csusb.edu/advising/)
advising@csusb.edu

Academic Advising provides guidance to undergraduate students throughout their academic journey by assisting them in making informed decisions that support their academic, personal, and career goals.

Services include:

- Academic Advising for all majors including Undeclared students
- Academic Probation and Subject to Dismissal Counseling
- Excessive Unit (Senior) Advising
- Coordination of Advising and Registration at New Student Orientation
- Two-Year Graduation Pledge Program
- Four-Year Graduation Pledge Program

Educational Opportunity Program

University Hall, Room 395
(909) 537-5042 Educational Opportunity Program website (http://www-ugs.csusb.edu/eop/)

The Educational Opportunity Program (EOP) is an admissions and comprehensive academic and student services program designed to support and provide access to higher education to historically low-income, disadvantaged, underrepresented students who meet specific income guidelines and demonstrate the potential to succeed at the university level.

The Educational Opportunity Program offers assistance with admissions, orientation, a summer transitional experience (Summer Bridge), academic advising, financial aid guidance, grants and scholarships, tutoring, personal counseling, academic and life skills workshops, career planning, graduate school information, and other support services, depending upon individual student needs.

In order for a student to participate in EOP, student must submit a separate application prior to admission to the university, meet the EOP income criteria and be selected as a new student via the EOP application review process.

Under the umbrella of the Educational Opportunity Program, current and former foster youth can receive additional support services such as year-around housing, life skills workshops, leadership opportunities and basic

needs assistance through the Renaissance Scholars Program. Both EOP and Non-EOP students who were verified by program as bonafide foster youth can receive services from the Renaissance Scholars Program (RSP).

Student Mentoring Program

Pfau Library, Room 208
Student Mentoring Program (https://www.csusb.edu/mentoring-programs/)
(909) 537-4499
mentoring@csusb.edu

Student mentoring provides peer-to-peer experiences to cultivate academic success, community building, support, guidance, and personal/professional growth. Mentoring promotes success through peer-led programming focusing on academic excellence, identity, career readiness, leadership, and a sense of belonging. Student mentoring services are available to all undergraduate students.

The First-Year Learning Community

University Hall, Room 352
(909) 537-5032

The First-Year Community/University Studies 1000A (USTD 1000A) introduces students to academic and practical skills necessary to succeed at the university. Upon completion of this course, students will become aware of connections and differences across disciplines and learning experiences, explain how their knowledge, strengths, and life experiences influence their worldview and those of others, reflect upon academic processes and learning, and begin to develop a critical understanding of the information environment.

Supplemental Instruction

University Hall, Room 401.20
(909) 537-7320
Supplemental Instruction (https://www.csusb.edu/supplemental-instruction/)

Do you want to strengthen your understanding of material presented in course lectures and texts, develop both general and content specific learning strategies and study skills, and/or have the opportunity to review for exams and develop effective test taking strategies? If your response is yes to any of these, then Supplemental Instruction (SI) is the academic success resource for you!

SI is a research-based, locally proven method for helping students succeed in challenging courses by providing peer led, subject-matter discussion, support, and guidance for the strengthening of critical college skills. SI sessions meet twice a week for 50 minutes each (usually just after the content course lecture). SI is open to all students enrolled in the corresponding content course. Each SI session is limited to 20 students to maintain a small group learning environment. For more information about SI call (909) 537-4499 or email SI@csusb.edu.

Tutoring Center

University Hall, Room 350
(909) 537-5038
Tutoring (https://www.csusb.edu/tutoring/)

The Tutoring Center provides academic support to students enrolled in CSUSB courses on a walk-in basis. Tutors work collaboratively with students on coursework, strengthening study skills, and building academic confidence in a supportive, patient, and affirming atmosphere.

Drop-in tutoring in various subjects is available Monday through Friday. Please visit our website to find available subjects, days, and times. Subject offerings vary by term and include:

- Accounting
- Biology
- Chemistry
- Economics
- Finance
- Mathematics
- Physics
- Statistics
- Study Skills

Math Coaching

Pfau Library, Room 210
(909) 537-3035
Math Coaching (https://www.csusb.edu/academic-success-and-undergraduate-advising/services/academic-centers-excellence/math-coaching/)

Individual and group math coaching provides students expert assessment and guidance in working through course content, assignments, and exam preparation. Match coaching is provided by Stephen Wentworth, a CSUSB Lecturer in the Department of Mathematics. Request an appointment with Stephen Wentworth (Swentwor@csusb.edu?subject=Math%20Coaching%20Request) by email.

SAIL Program

University Hall, Room 386
(909) 537-5921 (http://undergradstudies.csusb.edu/sail/)SAIL Program website
Email: sail@csusb.edu

The Student Assistance in Learning (SAIL) program is the university's TRIO Student Support Services (http://www2.ed.gov/programs/triostudsupp/) project, which is 100% funded by a grant from the U.S. Department of Education. The goal of SAIL is to increase the retention and graduation rates of undergraduate students who are low-income, first-generation (parents have not earned a bachelor's degree) or who have a disability. Priority is granted to eligible students who have a demonstrated academic need. *(Please contact the SAIL office for more information about eligibility.)*

SAIL offers students a variety of supportive services to ensure academic and personal success at CSUSB and their persistence towards graduation. These include:

- Educational planning
- Financial aid counseling
- Personal finance education and planning support
- Career counseling
- Personal counseling
- Assistance with graduate school planning and preparation
- Academic coaching

- Workshops addressing student success strategies, student resources, and personal growth
- Study Marathons to help students prepare for final exams
- Community service and leadership development opportunities
- SAIL's First-Gen Community
- SAIL's Harbor - a computer lab and study area for SAIL students

The enrollment period for the SAIL program begins in May for the upcoming academic year and closes when the program reaches capacity. After that time period, students may be admitted on a space-available basis and/or through a letter of referral from a campus staff or faculty member, or administrator.

Writing Center

College of Education, Room 310
(909) 537-5232
Writing Center (https://www.csusb.edu/writing-center/)

Writing consultants work with students who are composing specific writing projects as well as with faculty members who are incorporating writing as a mode of learning in their courses. Consultants offer individual conferences to students in all disciplines at all stages of their composing processes; conferences focus on interpreting assignments, discovering topics, expanding ideas, clarifying organizational strategies, incorporating counter-arguments, and citing references, as well as on editing and proofreading. Consultants also facilitate English conversation groups for multilingual and ESL students, helping them to negotiate the linguistic and cultural differences in oral and written composition.

The Writing Center Director and staff members are always available to consult with faculty members who are designing writing components for their courses, conduct in-class writing workshops in courses in all disciplines, and read and respond to manuscripts in preparation.

Undergraduate Interdisciplinary Studies

Office of the Associate Vice President of Academic Success and Undergraduate Advising

University Hall, Room 352
(909) 537-5032, (909) 537-7012 (fax)
Academic Success and Undergraduate Advising (https://www.csusb.edu/academic-success-and-undergraduate-advising/)

Undergraduate Degree

Bachelor of Arts

- Special Major (p. 86)

Bachelor of Arts with Special Major

Requirements (36 units)

Total units required for graduation: 120

(Program Code: SINT)

Occasionally, students with specialized educational or professional objectives may find that the existing degree programs offered at the university do not satisfy personal needs or career plans and that a carefully structured, interdisciplinary program of study is more appropriate.

The B.A. with Special Major is an interdisciplinary program intended for students with unusual interests and abilities who have the initiative and desire to design their own major with the aid of faculty and professional advisors. The purpose of these individually-designed special majors is to provide a carefully controlled opportunity for exceptional students to design, with faculty approval, a flexible interdisciplinary course of study that leads to a Bachelor of Arts degree.

Admission normally is limited to students who can design (with the aid of a faculty committee) individualized programs organized around a coherent topic or cross-disciplinary subject that involves two or more departments. Occasionally, short-term interests in interdisciplinary programs may be served by more structure and degree plans organized by faculty for groups of students.

The B.A. with Special Major is not intended to bypass normal graduation requirements or to avoid certain requirements of a regular major offered at CSUSB or at other nearby institutions. The self-designed major should not substantially duplicate any existing degree offered at CSUSB. Likewise, a Special Major cannot be developed in areas such as architecture, agriculture, or engineering where the campus lacks the necessary faculty expertise to guide the student and supervise the culminating project. Students must have an overall grade point average of 3.0 including work taken at all institutions and must maintain a 3.0 average in the courses required for the self-designed major.

Although the Special Major is a unique program that suits individual goals, has potential to combine fields and functions, and can add distinction to the degree, such an interdisciplinary program may pose professional obstacles and be difficult to explain to graduate schools and employers. Career goals and prerequisites for higher degrees should be reviewed before proceeding with this major. In particular, students who will be seeking a teaching credential should consult with faculty in the College of Education to see how a Special Major might impact subject matter requirements for teachers.

Interested students should contact the Office of Academic Success and Undergraduate Advising to begin the application and screening process. Prospective majors should be prepared to present a one-page description and justification of the program which outlines the concepts, goals and objectives to be fulfilled by the Special Major. If, after discussing the tentative interdisciplinary interests of the student, the Office of Academic Success and Undergraduate Advising believes the student should be encouraged to prepare a formal application and proposal for a Special Major, a packet of information and forms for justifying and submitting the proposed interdisciplinary curriculum will be provided to the student. If the student has not yet found faculty members who are interested in helping the student develop the curriculum and guide their study, the Office of Academic Success and Undergraduate Advising will suggest possible faculty committee members.

Requirements for the Major

1. Only regularly matriculated students with a 3.0 overall grade point average may be admitted to the Special Major program.
2. The minimum requirements for a Special Major will be 36 units (with at least 24 units in upper-division coursework) of carefully

structured coursework in two or more fields. Additional units beyond the minimum may be required by the faculty committee.

3. The Special Major must include at least one 3-unit upper division required 'writing-intensive' (WI) designated course as part of the structured coursework.
4. The Special Major must be proposed prior to the senior year. A student should have completed no more than 84 units at time of application for the Special Major and have a minimum of 36 units left to complete.
5. Neither lower-division nor upper-division General Education courses may be counted in the major, though they may supplement, strengthen and provide background for the major.
6. The Special Major is not available as a "double major," nor is it available to students pursuing a second bachelor's degree.
7. A culminating experience (project, research paper or other written documentation) and verification of accomplishment of project is required. Up to three units of credit for this may be built into the requirements of the major.

Application Process

1. Determine the feasibility of pursuing a Special Major by reviewing the requirements and examining available programs and majors to see if the proposed major could be met though any of these. Explore the resources of the campus needed for a Special Major in terms of course offerings, library resources, facilities, and faculty expertise.
2. Develop a statement of goals and objectives and the interdisciplinary program proposal which specifically addresses the following: What is the purpose or focus of this specially designed major? What skills does the student already have? What additional knowledge is needed? What is the best way to reach the goal? What is the student's career objective? Are there plans for advanced training and study?
3. Consult with the Office of Academic Success and Undergraduate Advising about the process as well as interests and goals. One week prior to this meeting, the student must submit a written description and justification of the area of study based on goals and objectives. The Office of Academic Success and Undergraduate Advising will contact departments and faculty members to discuss the feasibility of this area of study. If the draft proposal is acceptable, forms for formally developing and proposing the degree requirements will be provided.
4. A faculty committee will be appointed at this time based on recommendations of the Office of Academic Success and Undergraduate Advising and appropriate departments. A chair will be elected by the committee. Normally, the faculty committee will be made up of faculty from the departments and disciplines of the interdisciplinary interests, e.g., a program in Arts Management would usually have faculty committee from the arts and business.
5. Work with the faculty committee to determine the best and most appropriate courses to include in the Special Major. Consideration should be given to prerequisites courses needed as preparation for the 36 units (24 upper-division) minimum of study required in the Special Major.
6. The Special Major proposal must be signed by three faculty members who have worked with the student in developing the proposed course of study. The faculty member who will chair the advisory committee must write a statement of support which includes a brief evaluation of the proposal.
7. On the form provided, list the lower-division support courses which were taken in preparation for the upper-division component. These may include General Education and transfer courses where appropriate and directly related to your planned area of study.
8. List the minimum of 36 units of course work to be included in the Special Major. As an interdisciplinary program, these courses should include work from at least two and usually three or more departments. To avoid later difficulties with key courses that are not offered prior to graduation, reasonable substitutions should be listed where possible.
9. Submit the Special Major proposal along with a copy of transcripts of all college work completed to the Office of Academic Success and Undergraduate Advising. This proposal will be forwarded to the University Curriculum Committee for consideration. The committee meets regularly throughout the academic year and applications can be submitted at any time, though every effort should be made to turn in the proposal early enough in the term to receive approval prior to registration for the next term. Applications cannot be considered during the summer quarter. (The application materials should be filled out with great care and accuracy. Hastily done or carelessly prepared proposals are unlikely to convince the Curriculum Committee of the seriousness of the proposal.)
10. In some cases, the University Curriculum Committee may invite students and/or their faculty advisor to discuss the proposal with the committee, especially where clarification or changes are requested.
11. The Office of Academic Success and Undergraduate Advising will notify the student in writing of the decision of the University Curriculum Committee. This may be approval, conditional approval based on recommend changes/revisions in curriculum or disapproval.
12. Any change or substitution of courses in the approved program must be approved by the student's faculty committee and the Office of Academic Success and Undergraduate Advising.
13. Upon approval of the Special Major proposal, the student may formally declare a Special Major. At graduation, the diploma will show only a B.A. with Special Major, but the transcript will reflect the nature or title of the special interdisciplinary study in this fashion: B.A. with Special Major in (subject area).

Graduate Studies

Office of Graduate Studies

College of Education, Room 356
(909) 537-5058 Graduate Studies website (http://gradstudies.csusb.edu)
Caroline Vickers, Associate Dean

Post-baccalaureate students are those who already hold a bachelor's degree and wish to continue their studies; they may be pursuing a certificate, credential, second bachelor's, master's, or doctorate degree. At CSUSB, post-baccalaureate students can choose from more than 40 master's degree programs and concentrations, as well as a wide range of credential and certificate programs. CSUSB is also one of the few California State University campuses to offer a doctoral program in Educational Leadership. As the university grows, its nationally accredited graduate programs continue to gain recognition and garner awards. Most classes are offered at convenient hours for working students. Financial assistance for research and travel is available, as well as grants, loans, and fellowships aimed at supporting doctoral aspirations and creating a more diverse university faculty.

The Office of Graduate Studies encourages graduate education and works to create programs of quality that respond to the needs of students and of the university's service area. Additionally, the office administers the M.A. in Interdisciplinary Studies, and is responsible for the following functions for all graduate programs:

- Waiver petitions for the seven-year limit for course work, the 12 quarter unit/9 semester unit limit for classification, and leaves of absence
- Petitions by all unclassified post-baccalaureate students
- The Graduate Equity Fellowship Program
- The California Pre-Doctoral Program
- The Chancellor's Doctoral Incentive Program
- Thesis, project, and dissertation final acceptance and publication
- Graduate admission

Graduate programs (p. 79) at the university are designed to serve a variety of needs. Some students pursue an advanced degree or a credential program in a professional area to enhance their career mobility; others, to expand their knowledge and understanding and to pursue research in a chosen discipline. The university welcomes both part-time and full-time students. Some programs are available in hybrid or online format. Detailed requirements of each program are listed by department and/or degree in the Graduate Degrees section of this catalog.

Graduate Degree

Master of Arts

Interdisciplinary Studies (p. 88)

Master of Arts in Interdisciplinary Studies

Occasionally a student wishes to pursue special interests or career goals that are not met by existing graduate programs. For this student, the Master of Arts in Interdisciplinary Studies offers the opportunity to create a unique master's degree program or one that is not otherwise substantially available in a current graduate program offered at this university.

This individualized master's degree is designed to be a highly challenging academic program for the self-motivated student who has a clear perception of objectives and a background which will allow advanced study in the disciplines combined in the program. The Interdisciplinary Studies M.A. is designed to accommodate unique student interests or to prepare students for fields which require programs not presently offered at the university. It is not a replacement of existing degree programs but an enrichment of the university's offerings. This program is designed by the student in consultation with three faculty members who comprise the student's faculty committee. These three faculty members are selected from more than one academic discipline. Once the program is approved by the committee, it is then submitted to the Associate Dean of Graduate Studies and then the University Curriculum Committee for approval.

Application Process: The procedures listed below are for the individualized M.A. in Interdisciplinary Studies.

1. Determine the feasibility of pursuing an Interdisciplinary Studies M.A. by reviewing the requirements and examining available CSUSB master's programs to see if the proposed degree could be met through any of these. Explore the resources of the campus needed for an Interdisciplinary Studies M.A. in terms of course offerings, library resources, facilities, and faculty expertise;
2. Prepare a written proposal eight pages in length to include the following:
   a. Identify by title the proposed interdisciplinary program of study (i.e., Interdisciplinary Studies Master's Degree in [50-space limit]);
   b. Describe the purpose or focus of this specially designed degree program;
   c. Explain why this course of study cannot be pursued within one department with electives from other departments;
   d. Explain how this program relates to the student's educational and career goals;
   e. Indicate student's background, both academic and experiential, for undertaking this study;
   f. List the CSUSB courses appropriate to meeting goals; the program of courses must not significantly duplicate any existing degree program on this campus or on any other state college or university campus within a commutable distance.
3. To complete the formal application for acceptance to an Interdisciplinary Studies Master's program the student must:
   a. Secure the agreement of faculty in the disciplines related to the proposed special program to serve as members of the Interdisciplinary Studies Graduate Committee. This committee must consist of no less than three tenured/tenure-track, full-time faculty members at CSUSB;
   b. On the form provided, list the five upper-division prerequisite courses, each with a grade of "B" (3.0) or better, in the major discipline of the proposed program. The determination of the major discipline is subject to the approval of the University Curriculum Committee;
   c. On the Approved Study Plan form list the minimum of 30 units of course work, 100% of which must consist of 5000- or 6000-level courses, to be included in the Interdisciplinary Studies M.A. As an interdisciplinary program, these courses should include work from two or more departments. To avoid later difficulties with key courses that are not offered prior to graduation, reasonable substitutions should be listed where possible;

   d. Secure signatures on the application from the Interdisciplinary Studies Graduate Committee. The Interdisciplinary Studies M.A. proposal must be signed by three faculty members who have worked with the student in developing the proposed course of study. The faculty member who will chair the advisory committee must write a statement of support which includes a brief evaluation of the proposal;
   e. Submit the approved M.A. in Interdisciplinary Studies proposal to the Associate Dean of Graduate Studies for approval;
4. These materials constitute the Application for a Master's Degree in Interdisciplinary Studies and will be forwarded to the University Curriculum Committee for consideration. The committee meets regularly throughout the academic year and applications can be submitted at any time, though every effort should be made to turn in the proposal early enough in the term to receive approval prior to registration for the next term. The application materials should be filled out with great care and accuracy. Hastily done or carelessly prepared proposals are unlikely to convince the Curriculum Committee of the seriousness of the proposal. The signature of the Chair of the University Curriculum Committee on the application for the Master's Degree in Interdisciplinary Studies signals acceptance of an applicant to the program;
5. The Associate Dean of Graduate Studies will notify the applicant in writing of the decision of the University Curriculum Committee. This may be approval or request for resubmission;
6. Once the proposal has been approved by the University Curriculum Committee, the applicant will request an invitation code from the Office of Graduate Studies to apply to the Master's Degree in Interdisciplinary Studies through Cal State Apply. Admission to the Master's Degree in Interdisciplinary Studies through Cal State Apply is the final step to admission and matriculation;
7. Subsequent modification of an Approved Study Plan requires approval of the student's Interdisciplinary Studies Graduate Committee and Associate Dean of Graduate Studies on an official Change of Study form.
8. Any change or substitution of courses in the approved program must be approved by the student's faculty committee and the Associate Dean of Graduate Studies;
9. At graduation, the diploma will show only an M.A. in Interdisciplinary Studies, unless the student requests in writing the inclusion of the focus of the interdisciplinary study in this fashion: Master of Arts in Interdisciplinary Studies in (subject area). The transcript will reflect both the degree title and the focus of study.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. Meet minimum requirements for admission as a graduate student at CSUSB: at least a 2.5 cumulative undergraduate grade point average or at least a 2.5. g.p.a. in the last 60 semester units or 90 quarter units of the undergraduate record, or 12 or more semester units or 16 or more quarter units of master's coursework completed with at least a 3.0 cumulative g.p.a
2. Prerequisite of at least five upper-division courses, each with a grade of "B" (3.0) or better, in the major discipline of the proposed program. The determination of the major discipline is subject to the approval of the University Curriculum Committee;
3. A three-member faculty committee, the chair of which serves as primary advisor, to supervise the course of study;
4. Approval of Interdisciplinary Studies program proposal by the Faculty Director of Graduate Studies.

Advancement to Candidacy

To be advanced to candidacy, a student must have:

1. Completed at least 15 units of course work on an approved study plan with a minimum of a 3.0 grade point average in the program.

Requirements for Graduation

1. The program of study should be interdisciplinary, including course work from two or more departments represented at the university;
2. The program of study must include a minimum of 30 semester units of course work, 100% of all course work taken must be in 5000- or 6000-level courses;
3. The program of study must not include more than six units of independent study course work, excluding the units allowed for thesis or project.
4. The program must include a culminating experience (comprehensive examination, project or thesis). The project or thesis may include an oral defense. Students may register for no more than six units of thesis or project credit. The project or thesis may include an oral defense;
5. The program of study must include a course in research methods in the major discipline;
6. A grade point average of 3.0 ("B") must be earned in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program. Grades of "C-" (1.7) or less cannot be used toward the degree;
7. Completion of the Graduate Writing Assessment Requirement (GWAR);
8. Any additional general requirements not cited above and listed in Graduate Degree and Program Requirements (http://bulletin.csusb.edu/graduate-degree-programs/graduate-degree-program-requirements/).

Requirements for the M.A. in Interdisciplinary Studies (30 units)

Program Code (INTD)

Due to the unique nature of the program, courses required for the degree are determined by each student's individualized program plan. The program plan is designed by the student in consultation with three faculty members who also comprise the student's faculty committee. These three faculty members are selected from more than one academic discipline. The program plan must consist of at least 30 units, all of which are graduate-level courses (numbered 5000 – 6000). The program must include a culminating experience (comprehensive examination, project or thesis).

See Requirements for Graduation listed above for additional Interdisciplinary Studies program requirements.

Culminating Experience

The program must include a culminating experience (comprehensive examination, project or thesis). The project or thesis may include an oral defense. Students may register for no more than six units of thesis or project credit. The project or thesis may include an oral defense

Honors College

Honors College Office

Coyote Village (Cajon Hall) 135
(909) 537-7472

The Honors College at California State University, San Bernardino offers a curriculum designed to meet the needs of highly motivated students who seek an exceptional, intellectually challenging experience. This program will add breadth, depth, and rigor to the student's undergraduate course of study. Honors students are encouraged to take an active role in their own learning process, to think about problems they will face in creating the future, and to explore their roles in addressing these problems. Integration of subject material across the curriculum and interdisciplinary approaches to learning are essential goals of the program, as is emphasis on the cognitive development of the student. The curriculum challenges students to develop thinking skills and to use these skills in analyzing and evaluating problems of contemporary society. In doing so, the curriculum fosters a learning community that promotes student research, creativity, and innovation. Honors students will have:

- Personalized advising;
- Priority registration;
- The opportunity to participate in honors activities such as excursions, performances, and art exhibits;
- Honors courses in basic skills such as expository writing, oral communication, and critical thinking;
- Honors seminars which promote interaction among students and faculty;
- Honors courses in specific academic disciplines and interdisciplinary areas.

Admission to the Program

Incoming first-year and rising juniors or transfer students who have shown scholastic ability, intellectual promise, and creativity are encouraged to apply for the Honors College. Incoming first-year students will be given written invitation to apply to the Honors College based on strong performance in high school.

Rising juniors and transfer students who have remained consistently on the Dean's List and/or have maintained a 3.5 overall grade point average in previous course work may apply to the program. These students should contact the Honors College for the application.

In addition, any faculty member identifying a student as one who has the potential to profit from the challenge of the program may sponsor a student into the program, with the approval of the Honors Committee.

To remain in good standing in the Honors Program, students are expected to maintain a grade point average of 3.3 ("B+") overall.

Honors with Distinction (22 units)

The Honors College at California State University, San Bernardino offers both a curriculum and supporting experiential learning activities in the form of an undergraduate thesis. The Honors With Distinction program designed to support highly motivated and highly engaged students who seek different approaches to learning as well as an intellectually and creatively challenging experience. This program will add breadth, depth, and rigor to students' undergraduate course of study by providing alternative methods of learning that challenge students to think and question in new ways. Honors students are encouraged to take an active role in their own learning process, to think about problems they will face as they define the future, and to explore their roles in addressing these problems. The Honors curriculum gives students opportunities to consider how their own identities and cultural backgrounds position them for success in their educations and careers and equip them to make positive contributions to their communities. Integration of subject material across the curriculum and interdisciplinary approaches to learning are essential goals of the program, as is the emphasis on personal and cognitive development. The curriculum challenges students to develop thinking skills and to use these skills in analyzing and evaluating problems of contemporary society. In doing so, the curriculum fosters a learning community that promotes student research, creativity, and innovation.

Admission to the Program

Admission is open to students who have at least four semesters remaining. Incoming first-year students may be given written invitation to apply or direct admission to the Honors College based on strong performance in high school, but the program accepts applications from any student wanting to benefit from its offerings. Applications and support materials are available on the program's website.

Recognition Requirements (22 units)

HON 1100	Writing Rhetorically	3
HON 1200	Thinking Critically	3
HON 1300	Communicating Orally	3
HON 1400	Constructing Knowledge	3
Optional Honors GE Courses		
ES 1000H	Introduction to Ethnic Studies: HONORS SECTION	
HIST 1460H	Honors History of the United States: Pre-Colonization to Present	
PHIL 1012H	Honors Introduction to Ethics	
PHIL 1015H	Honors Introduction to Knowledge and Reality	
PSCI 2030H	Government of the United States--Honors	
Choose 2 Units From the Following:		2
HON 3000	Service Learning in Honors	
HON 3010	Self-Directed Service Learning in Honors	
Choose 6 Units From The Following:		6
HON 3100	Natural Sciences and the Humanities	
HON 3150	Natural Sciences and the Humanities Praxis	
HON 3200	Social Sciences and Natural Sciences Seminar	
HON 3250	Social Sciences and Natural Sciences Praxis	
HON 3300	Social Science and the Humanities Seminar	
HON 3350	Social Science and the Humanities Praxis	
HON 3510	Multidisciplinary Approaches in the Arts and Humanities	
HON 3520	Multidisciplinary Approaches in the Natural Sciences	

HON 3530	Multidisciplinary Approaches in the Social Sciences	
HON 4100	Junior Research Exploration Workshop	1
HON 5000	Senior Thesis Project	1
Total Units		**22**

Honors (21 units)

The Honors College at California State University, San Bernardino offers a curriculum designed to support highly motivated and highly engaged students who seek different approaches to learning as well as an intellectually and creatively challenging experience. This program will add breadth, depth, and rigor to students' undergraduate course of study by providing alternative methods of learning that challenge students to think and question in new ways. Honors students are encouraged to take an active role in their own learning process, to think about problems they will face as they define the future, and to explore their roles in addressing these problems. The Honors curriculum gives students opportunities to consider how their own identities and cultural backgrounds position them for success in their educations and careers and equip them to make positive contributions to their communities. Integration of subject material across the curriculum and interdisciplinary approaches to learning are essential goals of the program, as is the emphasis on personal and cognitive development. The curriculum challenges students to develop thinking skills and to use these skills in analyzing and evaluating problems of contemporary society.

Admission to the Program

Admission is open to students who have at least four semesters remaining. Incoming first-year students may be given written invitation to apply or direct admission to the Honors College based on strong performance in high school, but the program accepts applications from any student wanting to benefit from its offerings. Applications and support materials are available on the program's website.

Recognition Requirements (21 units)

HON 1100	Writing Rhetorically	3
HON 1200	Thinking Critically	3
HON 1300	Communicating Orally	3
HON 1400	Constructing Knowledge	3
Optional Honors GE Courses		
ES 1000H	Introduction to Ethnic Studies: HONORS SECTION	
HIST 1460H	Honors History of the United States: Pre-Colonization to Present	
PHIL 1012H	Honors Introduction to Ethics	
PHIL 1015H	Honors Introduction to Knowledge and Reality	
PSCI 2030H	Government of the United States--Honors	
Choose 2 Units From the Following:		2
HON 3000	Service Learning in Honors	
HON 3010	Self-Directed Service Learning in Honors	
Choose 6 Units From The Following:		6
HON 3100	Natural Sciences and the Humanities	
HON 3150	Natural Sciences and the Humanities Praxis	
HON 3200	Social Sciences and Natural Sciences Seminar	
HON 3250	Social Sciences and Natural Sciences Praxis	
HON 3300	Social Science and the Humanities Seminar	
HON 3350	Social Science and the Humanities Praxis	
HON 3510	Multidisciplinary Approaches in the Arts and Humanities	
HON 3520	Multidisciplinary Approaches in the Natural Sciences	
HON 3530	Multidisciplinary Approaches in the Social Sciences	
HON 4100	Junior Research Exploration Workshop	1
Total Units		**21**

Academic Support and Campus Services

Scheduling of Classes

Most three-unit courses meet for 150 minutes per week. Three basic plans are used in scheduling classes: three meetings per week (usually Monday-Wednesday-Friday), two meetings per week or one meeting. Principal exceptions occur among laboratory, activity and studio courses and courses which carry less than three units of credit.

The two-period, two-day-per-week format is utilized for Monday-Wednesday/Tuesday-Thursday classes and most late afternoon and evening courses; the single three-hour period format has been found most appropriate for certain evening and weekend classes. The university attempts to maintain accurate information about changing student needs and to adjust its class schedule accordingly. Current Class Schedules (http://academicscheduling.csusb.edu) are available approximately two weeks before the beginning of Priority Registration for a term.

Late-Day and Evening Classes

Courses offered in the late afternoon and evening are in every respect the equal of courses offered earlier in the day; they have identical prerequisites and requirements and they confer equal credit. Late-day classes have proven to be of convenience to regular and part-time students, teachers, business people and others in the community. The proportion of late-day classes has been increasing and stands currently between one-third and one-half of all classes.

Class Size

A distinctive feature of the San Bernardino plan is the attempt to offer the majority of courses in a small lecture/discussion/seminar format. Currently approximately 70 percent of the courses are taught in this arrangement. This small class size increases the possibilities for discussion and for student-faculty contacts both within and outside the classroom.

To maintain the small class as the norm requires that some proportion of courses be offered in an intermediate size (enrollment of 30 to 72) or in a large-lecture format (maximum enrollment of 250).

Among lower-division general education courses, those in the basic skills area, in foreign language, in mathematics and in English are offered mostly through small classes, while those in other areas typically employ intermediate or large-lecture classes. Upper-division general education courses may be offered in the large-lecture format. Each department utilizes intermediate size classes for a small number of required or elective courses, but the majority of departmental offerings are in small classes. The typical laboratory section has a maximum enrollment of 24, sometimes less.

Faculty Office Hours

In addition to meeting with students during designated class hours, faculty members hold regularly scheduled office hours, which are posted outside their offices. A student who is unable to see a faculty member during class or the posted office hours may arrange an appointment by contacting the appropriate department office.

Course Credits and Study Expectations

Most courses at California State University, San Bernardino carry three semester units of credit; some carry six units; some two units; and a few variable credit. Course credits are indicated in the course descriptions in this catalog. Since each unit of credit presumes one hour of class time and two hours of preparation, a typical three-unit course would require a minimum of 9 hours per week of the student's time.

Credit Hour

On July 1, 2020, the United States Department of Education changed its definition of the student credit hour. Fundamentally, the change shifted responsibility for credit hour compliance to the accreditation agency and/or to the state.

As such, the CSU's accreditor, the WASC Senior College and University Commission (WSCUC), has published its own updated definition of student credit hour and related accreditation processes. The new regulations no longer require an accrediting agency to review an institution's credit hour policy and procedures. It does require WSCUC to review the institution's definition of credit hour and an institution's processes and policies for ensuring the credit hour policy is followed.

The CSU credit hour definition is consistent with federal law (600.2 and 600.4 revised July 1, 2020) and the requirements of *the* WSCUC. The CSU defines a credit hour as an amount of work represented in stated learning outcomes and verified by evidence of student achievement. Such evidence is an institutionally established equivalency that:

1. Approximates not less than:
    a. One hour of direct faculty instruction and a minimum of two hours of out-of-class student work each week for approximately 15 weeks for one semester or equivalent amount of work over a different amount of time; or
    b. At least an equivalent amount of work as required in paragraph 1.a. of this definition for other academic activities as established by the institution including laboratory work, internships, practice, studio work and other academic work leading to the award of credit hours; and
2. Permits an institution, in determining the amount of work associated with a credit hour, to take into account a variety of delivery methods, measurements of student work, academic calendars, disciplines and degree levels. Institutions have the flexibility to award a greater number of credits for courses that require more student work.

As in the past, a credit hour is assumed to be a 50-minute (not 60-minute) period. In some courses, such as those offered online asynchronously, in which "seat time" does not apply, a credit hour may be measured by an equivalent amount of work, as demonstrated by student achievement.

For purposes of accreditation, all CSUs are required to develop, communicate and implement procedures for regular, periodic review of this credit hour policy to ensure that credit hour assignments are accurate, reliable and consistently applied. WSCUC published new draft guidelines that took effect in June 2021. Universities are responsible for publishing a clearly stated practice or process that ensures they are in compliance with the student credit hour definition.

University Honors Program

The University Honors Program stands for an education that will give each student the opportunity to explore ideas and principles underlying the major areas of modern knowledge, the understanding that learning

is a continuous lifetime process, and the courage and enthusiasm to participate in the creation of a better world. This program offers integrated courses and other enrichment opportunities for highly-motivated students who seek an intellectual challenge. Most honors courses fulfill the general education requirements which all students at the university must meet.

Students who have shown scholastic ability, intellectual promise, and creativity are encouraged to apply for the program. Further information about the Honors Program can be obtained in Coyote Village 135, (909) 537-7472, or by visiting the University Honors Program website (https://www.csusb.edu/honors-program/).

Phi Kappa Phi

Academic Affairs Office, AD-101

(909) 537-5024 Phi Kappa Phi website (http://pkp.csusb.edu)

The university has an active chapter of the national honor society of Phi Kappa Phi, whose purpose is the recognition and encouragement of superior scholarship in all academic disciplines. Membership is by invitation issued to selected juniors, seniors and graduate students who have excelled in scholarship and who meet the chapter's requirements. Graduating seniors who are members of PKP have an opportunity to apply for a Fellowship from the national office to be used towards the first year of graduate study. The deadline is April 1st each year.

Gamma Lambda of Phi Beta Delta

Phi Beta Delta, founded in 1986, is the first U.S. honor society dedicated to recognizing individuals who have demonstrated scholarly achievement in the areas of international education and exchange. These individuals include: international (visa) students who have demonstrated high scholastic achievement at our university; U.S. students who have completed studies abroad in approved exchange programs with our university; distinguished international faculty at CSUSB; distinguished CSUSB faculty and staff who have been involved in recognized international endeavors (i.e. research, teaching, program development and service). The Gamma Lambda Chapter at CSUSB is a charter chapter of the national organization.

Student Mentoring Program

Pfau Library, Room 208
Student Mentoring Program (https://www.csusb.edu/mentoring-programs/)
(909) 537-4499
mentoring@csusb.edu

Student mentoring provides peer-to-peer experiences to cultivate academic success, community building, support, guidance, and personal/professional growth. Mentoring promotes success through peer-led programming focusing on academic excellence, identity, career readiness, leadership, and a sense of belonging. Student mentoring services are available to all undergraduate students.

Cooperative Education

The university is developing ways in which students may earn course credit through academically related work experience. Currently available are internship courses in accounting, administration, anthropology, art, Asian studies, biology, chemistry, communication, computer science, criminal justice, economics, education, English, environmental studies, ethnic studies, finance, French, gender and sexuality studies, geography, geology, health science, history, human development, humanities, information management, management, marketing, philosophy, physics, public administration, paralegal studies, political science, psychology, social work, sociology, Spanish, supply chain management, and theatre arts. More specific information on special courses can be obtained from the Office of Academic Programs or the appropriate colleges, schools, and departments.

Facilities Planning & Management

California State University, San Bernardino, blends modern facilities with wide expanses of well-maintained landscapes and panoramic views. The 430-acre campus features more than 37 fully accessible and air-conditioned buildings. In addition to classrooms and laboratories for coursework in the arts, letters, sciences, and social sciences, the university has a number of rather distinctive facilities, such as simulation laboratories, a modern instructional television studio lab, an electronic music studio, glass blowing facilities, a Geographic Information Systems (GIS) Lab, Crime Analysis Lab, Anthropology Museum, Infant/toddler Teaching Lab, the Arrowhead Lab for Security Analysis, Literacy Center, Math and Science Teaching Methods Labs, and state-of-the-art self-instructional computer laboratories located in each of the major instructional buildings.

In 2017, the Board of Trustees approved the University's Master Plan for the future of the campus. The Master Plan addresses the current utilization of academic and service departments, future expansion of facilities to accommodate enrollment growth, parking and circulation, student housing, student life functions, landscape, playfields, and athletics, safety, lighting, and security, and strategies to create a more sustainable campus. The Performing Arts Center, which will open in 2025, was the most recent building to be completed under the Campus Master Plan and is home to the College of Arts and Letters Theater and Music programs and a 500-seat state-of-the-art performing arts theatre. For more information, please visit the Master Plan Webpage (https://www.csusb.edu/master-plan/).

University Library

Library website (http://www.lib.csusb.edu/)

The John M. Pfau Library provides essential support for the university's curriculum and strives to motivate and empower people to be life-long learners. The dedicated staff, most of which works behind the scene, acquires excellent resources, develops intellectual access to them, and provides research assistance at the point of need.

The collections include a wealth of materials in a variety of formats. While they are specially built and maintained to support the curriculum, they are not restricted to it. The Special Collections Department collects and preserves artifacts, photographs, and memorabilia on the local and regional history of this area along with the history of the university. The library is also a depository library for both Federal and State of California government documents.

Numerous database subscriptions provide a wealth of digital resources and extend the reach of scholars far beyond our walls. The efficient Interlibrary Loan service provides the means to obtain nearly any book or article not owned by the library.

Benefit from the special expertise of librarians in person at the Reference Desk, on the phone, or online via the web site. Faculty may schedule librarian-taught research instruction sessions for their classes. Individuals may make appointments with a librarian for more in-depth assistance.

There is much more to know about how the library works to enhance the university experience than will comfortably fit in this brief description. Students are invited to come on by and (pun intended!) check us out.

Academic Technologies & Innovation

(909) 537-7439 ATI website (https://www.csusb.edu/academic-technology-innovation/)

The Department of Academic Technologies & Innovation (ATI) focuses on fostering and supporting faculty's use of academic technologies for teaching and learning, including faculty-led innovation, student engagement technologies, and growth in hybrid and online learning courses. The ATI Department works closely with the Division of Academic Affairs, the Teaching Resource Center (TRC), and the College Deans and Department Chairs to identify and set priorities and standards in academic technology initiatives. The ATI Department consists of instructional designers, instructional technologists, and accessibility specialists who support online instruction and classroom technologies including smart classrooms. The department also works with the Academic Technologies and Distributed Learning subcommittee of the Faculty Senate to identify and develop academic technology innovations and initiatives.

The ATI office provides coordination and oversight of a multitude of online learning activities offered through CSUSB, including state-supported degree programs as well as technology-based extension courses and activities. ATI provides anytime, anywhere access for students who would otherwise be unable to attain a CSUSB degree.

The concept of distributed learning connotes a system through which CSUSB can more fully "distribute" its academic resources to its diverse and broad-based constituents, locally, nationally, and internationally. CSUSB offers several degree programs either fully or partially online (hybrid) or via videoconference, including programs in education, liberal studies, communications, nursing, business, public administration, and criminal justice.

Distributed learning techniques engage students actively (or interactively), and focus on helping students achieve class objectives via a number of state-of-the-art technologies, including online, blended (hybrid), and video/Web conferences. In addition, courses taught off-campus at remote sites are coordinated by the Academic Technologies and Innovation office.

Assistive Technology and Accessibility Center (ATAC)

ATI's Assistive Technology and Accessibility Center (ATAC) provides both software and hardware technology solutions to students, faculty, and staff at the CSUSB and Palm Desert campuses. Assistive technology helps individuals with disabilities receive equal access to information and resources.

Classroom Support

Media equipment is fast becoming the backbone of the instructional environment and ATI's **Classroom Support** team provides access to a wide variety of instructional technologies in our classrooms and learning spaces. Whether the equipment is already installed in one of our Smart Classrooms or media equipment is delivered to your classroom, our staff will ensure that you have what you need. Equipment for special campus events, meetings, or conferences is also available.

Keeping equipment in good operational order requires a thorough preventative maintenance program as well as access to knowledgeable technical staff. Our classroom and instructional support staff are available to provide consultation to faculty and staff in the proper operation of classroom technologies. Installation of special software for use in Smart Classrooms is also available upon request.

Online Courses

Online and hybrid courses offered throughout CSUSB's colleges are identified as such in the official CSUSB Course Schedule. Online courses are taught completely on the Internet and are not assigned classroom space. Hybrid courses are assigned classroom space and meeting times, which range from once per semester to weekly, accompanied by significant online materials and activities. Students taking online courses should consult the Academic Technologies & Innovation website (linked at the top of this page) for minimum hardware and software requirements for taking any courses on the Internet.

For more information on support and professional development for faculty, contact ATI at (909) 537-7439.

Information Technology Services

Information Technology Services website (http://www.csusb.edu/its/)

The mission of the division of Information Technology Services (ITS) is to support student, faculty, and staff success by providing world-class customer service, fostering faculty-led innovation and research, and enhancing operational efficiency through the effective use of information technologies.

ITS division is guided by the following principles:

- Be responsive to the changing information technology needs of a highly diverse student, faculty, and staff community.
- Offer support and leadership through collaborative efforts with faculty, students, and staff.
- In a participative manner, perpetuate information technology integration as a part of the academic and administrative fabric covering all programs.
- Aggressively respond to the tactical objectives set forth by the campus strategic plan.
- Advance CSUSB as one of the foremost teaching/learning environments in higher education by applying, as appropriate, technology solutions.

The IT Governance Executive Committee governs university-wide technology initiatives.

Organizationally, ITS has six departments managed under the office of the Vice President and Chief Information Officer for Information Technology Services:

- Technology Operations & Customer Support
- Academic Technologies & Innovation
- Administrative Computing & User Experience
- Institutional Intelligence
- Strategic Technology Initiatives

Technology Operations and Customer Support

Technology Operations and Customer Support Website (https://support.csusb.edu/)

Technology Operations and Customer Support is led by the Associate Vice President of ITS. Composed of five distinct units, the department operates and maintains the university's most critical information technology infrastructure, ensures secure and reliable access, and provides world-class customer support on a 24x7x365 basis.

Technology Support Center

Technology Support Center (TSC) is the one-stop shop for support, information, and consultation on all technology-related matters. On a 24/7 basis, the technology support center provides the university with practical, timely, and consistent responses to technical support needs.

The TSC is the issuer of Coyote OneCard, the official CSUSB identification card. We provide students, faculty, and staff assistance and training for on-campus resources such as MyCoyote, Canvas, campus email systems, Google G Suite, and Office 365. We also assist with desktop support and provide access to many campus-licensed software.

The TSC is located in the Pfau Library Addition first floor (PL-1108) and can be reached by phone at 909-537-7677 or email at support@csusb.edu or on the web at http://support.csusb.edu (http://support.csusb.edu/). (https://support.csusb.edu/)

Enterprise and Cloud Services

Enterprise and Cloud Services (ECS) is primarily responsible for system administration and maintenance of hardware, software, and cloud environment supporting the campus enterprise systems.

ECS manages enterprise resources, including Private and Public Cloud Infrastructure, Office 365, Google G Suite, Mailman listserv, OnBase workflow, and imaging. Services rendered include server and desktop virtualization, cloud computing resources configuration and maintenance, backup, and recovery. ECS also provides server hosting and co-location services, data center management, Scantron exam scoring, and SOTE processing.

Identity, Security & Enterprise Technology

The Identity, Security & Enterprise Technology (ISET) department promotes confidentiality, privacy, availability, and integrity of information resources. ISET monitors compliance with CSU and CSUSB information security policies and standards and applicable State and Federal regulatory standards, such as FERPA, HIPAA, and PCI.

Telecommunications and Network Services

Telecommunications & Network Services (TNS) plans, supports, manages, maintains, and repairs the campus telecommunication system, the campus wired and wireless data network, and supporting servers.

Telecommunication Services is responsible for supplying and repairing telephone equipment, managing the campus operators, campus call center lines, emergency phone access, and cellular accounts, and maintaining the campus VoIP and voicemail system.

Network Services is responsible for installing, managing, and maintaining the campus wired and wireless network infrastructure, various campus-wide network applications, and specific network systems providing campus-wide functions.

Distributed Technology Services

Distributed Technology Services (DTS) supports technology initiatives at CSUSB's six distributed Colleges (Arts and Letters, Business and Public Administration, Education, Extended Education, Natural Sciences, and Social and Behavioral Sciences) as well as the Library.

DTS is responsible for the overall planning, organizing, and execution of all IT functions at the distributed colleges and library at CSUSB. This includes directing all IT operations to meet customer requirements and supporting and maintaining existing applications, systems, infrastructure and development of new technical solutions consistent with campus protocol/standards and the ITS division’s objectives.

Academic Technologies and Innovation

Academic Technologies and Innovation Website (https://www.csusb.edu/ati/)

Academic Technologies and Innovation (ATI) is CSUSB's instructional design and learning technology function. As the CSUSB leader in online education and academic technologies, ATI strives to promote quality online course design, expand online learning, and support faculty with their course development and academic technology needs. We take pride in providing high-quality instructional and technological solutions. That is why we are committed to helping you find the right solution that fits your needs.

Administrative Computing and User Experience

Administrative Computing and User Experience Website (http://acs.csusb.edu/)

The Department of Administrative Computing and User Experience (ACUx) develops, provides support for, and manages various campus enterprise software applications on a variety of hardware platforms. Support is provided for all CSUSB administrative systems. ACUx strives to be the richest source of support for information technology resource management. To do this, we encourage our teams to work in a collaborative environment, giving them the resources and support they need to bring the best practices to life. At ACBI, we realize that a supportive work environment is crucial to success. We understand success is about collaborating and maintaining clear communication between partners and technical support.

Institutional Intelligence

Digital Transformation

Digital Transformation Website (https://www.csusb.edu/its/support/digital-transformation/)

Utilizing the tools of web and mobile technologies, including AI and machine learning, Digital Transformation (Dx) strives to create a culture of easily accessible, intelligently designed, and seamless systems to improve the human experience at CSUSB by making interactions available from anywhere. We seek to improve university processes, eliminate administrative bottlenecks, reduce technology barriers, and increase operational efficiency by creating intuitive, agile, and efficient

tools to accelerate graduation, increase retention, and support the success of our students, faculty, and staff.

Institutional Research and Analytics

Institutional Research and Analytics Website (https://www.csusb.edu/institutional-research/)

Institutional Research and Analytics collaborates with the campus community to support strategic planning, enrollment planning, assessment, and continuous improvement through consultative program design and timely dissemination of reliable information. Our goals are: to provide expertise and support for program design, assessment, and continuous improvement; develop, provide, and maintain timely and accurate institutional data to internal and external audiences; and conduct project-based research and analyses.

Strategic Technology Initiatives

The purpose of the office of Strategic Technology Initiatives is to support the increase in efficiency and effectiveness of the ITS Division in terms of planning and managing IT projects that are aligned with the strategic objectives of the division and the institutional learning objectives of the university.

Degree Completion Programs for Part-Time Students

Increasing opportunities are being developed for part-time students to complete baccalaureate and master's degree programs by attending late-day classes, as well as Friday night and weekend courses with compressed schedules.

Students who wish to pursue a late-day degree-completion program should consult with the department of their proposed major regarding the availability of required courses and then apply for admission to the university in the usual manner.

National Student Exchange Program

Office of Student Engagement, SU-203

(909) 537-5234

CSUSB National Student Exchange (https://www.csusb.edu/student-leadership-engagement/campus-activities-leadership/national-student-exchange/)

National Student Exchange (NSE) offers study opportunities at over 200 diverse university settings across the US, Puerto Rico, Canada, Guam and the US Virgin Islands and provides access to a wide array of courses and programs. NSE offers options for students who may not yet be ready for an international program, but are seeking new academic, cultural and personal experiences to enhance their undergraduate education. NSE options include exchange among university honors and residential life programs, as well as access to internships, research options, and service learning opportunities of member campuses. NSE features a tuition reciprocity system that allows students to attend their host institution by paying either the in-state tuition/fees of their host institution or the normal tuition/fees here at Cal State San Bernardino. NSE students can exchange for a single term or a full academic year. Course work completed while on exchange at the host campus is brought back to the home institution and credited to the student's degree program.

Apply for exchange through the CSUSB-NSE office. The process includes a non-refutable application fee and current transcript.

CSUSB determines the manner in which the host campus courses are distributed and grades are recorded. Students should consult with an academic advisor regarding course selection prior to going on exchange and preferably during the time they are exploring possible host campuses. During the application process, students will need to meet with a Transfer and Graduation Counselor in the Office of the Registrar to ensure that classes taken on exchange will transfer back to CSUSB.

University Enterprises Corporation at CSUSB

(909) 537-5918 University Enterprises Corporation website (http://uec.csusb.edu)

University Enterprises Corporation at CSUSB ("UEC") supports the university's educational mission by providing quality services that complement the instructional program. The University depends upon UEC to provide services that cannot be supported with state funds. Although UEC is a legally separate 501(c)(3) nonprofit corporation, it is a fully integrated part of the California State University San Bernardino campus.

UEC is responsible for business enterprises on campus including, but not limited to, dining services, bookstore, convenience store, and vending services. UEC also serves as the grantee for federal, state and local funding for research and sponsored projects.

Coyote Bookstore

(909) 537-3966 Coyote Bookstore website (http://www.bkstr.com/csusanbernardinostore/home/)

The Coyote Bookstore carries all course-required textbooks and offers a textbook rental program, digital options, and year-round book buy-back. The Coyote Bookstore also has hundreds of other items for sale including school and office supplies, backpacks, fashionable CSUSB clothing, gifts, stationery and greeting cards, computers, computer software and supplies, general books, health and beauty aids, and various food, beverage and snack items. A satellite bookstore is operated at the Palm Desert campus to serve students, faculty and staff at that location. Students, faculty and staff enjoy educational discounts on computer hardware, peripherals and software purchases.

Dining Services

(909) 537-4232 Dine On Campus at CSU San Bernardino (https://dineoncampus.com/csusb/)

Dining services and convenience stores are provided throughout the University. The new Coyote Commons Dining Hall and Howl & Growl retail zone, located on the east side of campus between Jack Brown Hall and parking lot G, is the perfect location to sit down and relax while enjoying a delicious meal. The All-You-Care-To-Eat seasonal menus include various fresh choices to satisfy every taste and appetite. Enjoy everything from brick oven pizza, a fresh pasta bar, favorite classics from the grill, international options, soup and salad bar, desserts, and made-to-order deli. The two-story facility offers a variety of seating accommodations and features a beautiful view of the mountains for a relaxed, upscale atmosphere.

The food-court-style eatery in the Santos Manuel Student Union South features appetizing options from regional brands Bobos Pizza, Wild Blue

Sushi, and Frutas El Coyote. There are also an assortment of food and beverage vending machines located adjacent to the food-court to satisfy your needs. National food chains Habit Burger and Panda Express are located on the first floor of Santos Manual Student Union North. The Blue Coyote Cantina, also located on the first floor, offers a lively ambiance and appealing menu specials.

The two campus Coyote Market convenience stores provide the perfect solution to the busy college lifestyle with a wide variety of pre-packaged sandwiches and salads, cold drinks, coffee, espresso drinks and tempting snacks - perfect for on-the-go dining. Scantrons, bluebooks and other supplies are also stocked for our students' convenience. Convenience store locations currently include Howl and Growl next to Coyote Commons and the first floor of the Center for Global Innovation. Cash, credit, and Coyote One Card Dining Dollars are accepted at all campus food service locations.

The Starbucks coffee house is located on the first floor of the Library and offers a full menu of your favorite beverages and food items. The new Einstein Bros. Bagels located on the first floor of the College of Social & Behavioral Sciences brings the aroma of freshly baked bagels to the west side of campus with breakfast, lunch, and dinner options. The Einstein Bros. Bagel Express gives the campus the option to bypass the long lines and grab a coffee and a bagel or a grab 'n' go item.

Coyote Dining's Catering Department offers full-service catering for all types of on- and off-campus events including weddings, banquets, retirement dinners, special department luncheons, and private parties.

Supplemental Instruction

University Hall, Room 401.20
(909) 537-7320
Supplemental Instruction (https://www.csusb.edu/supplemental-instruction/)

Do you want to strengthen your understanding of material presented in course lectures and texts, develop both general and content specific learning strategies and study skills, and/or have the opportunity to review for exams and develop effective test taking strategies? If your response is yes to any of these, then Supplemental Instruction (SI) is the academic success resource for you!

SI is a research-based, locally proven method for helping students succeed in challenging courses by providing peer led, subject-matter discussion, support, and guidance for the strengthening of critical college skills. SI sessions meet twice a week for 50 minutes each (usually just after the content course lecture). SI is open to all students enrolled in the corresponding content course. Each SI session is limited to 20 students to maintain a small group learning environment. For more information about SI call (909) 537-4499 or email SI@csusb.edu.

Tutoring Center

University Hall, Room 350
(909) 537-5038
Tutoring (https://www.csusb.edu/tutoring/)

The Tutoring Center provides academic support to students enrolled in CSUSB courses on a walk-in basis. Tutors work collaboratively with students on coursework, strengthening study skills, and building academic confidence in a supportive, patient, and affirming atmosphere.

Drop-in tutoring in various subjects is available Monday through Friday. Please visit our website to find available subjects, days, and times. Subject offerings vary by term and include:

- Accounting
- Biology
- Chemistry
- Economics
- Finance
- Mathematics
- Physics
- Statistics
- Study Skills

Math Coaching

Pfau Library, Room 210
(909) 537-3035
Math Coaching (https://www.csusb.edu/academic-success-and-undergraduate-advising/services/academic-centers-excellence/math-coaching/)

Individual and group math coaching provides students expert assessment and guidance in working through course content, assignments, and exam preparation. Match coaching is provided by Stephen Wentworth, a CSUSB Lecturer in the Department of Mathematics. Request an appointment with Stephen Wentworth (Swentwor@csusb.edu?subject=Math%20Coaching%20Request) by email.

Writing Center

College of Education, Room 310
(909) 537-5232
Writing Center (https://www.csusb.edu/writing-center/)

Writing consultants work with students who are composing specific writing projects as well as with faculty members who are incorporating writing as a mode of learning in their courses. Consultants offer individual conferences to students in all disciplines at all stages of their composing processes; conferences focus on interpreting assignments, discovering topics, expanding ideas, clarifying organizational strategies, incorporating counter-arguments, and citing references, as well as on editing and proofreading. Consultants also facilitate English conversation groups for multilingual and ESL students, helping them to negotiate the linguistic and cultural differences in oral and written composition.

The Writing Center Director and staff members are always available to consult with faculty members who are designing writing components for their courses, conduct in-class writing workshops in courses in all disciplines, and read and respond to manuscripts in preparation.

Lactation Rooms for Nursing Mothers

CSUSB and the Division of Student Affairs are committed to supporting students who need to express milk or nurse their child during hours of operation by providing lactation rooms in close proximity to their classes. These spaces are private, secure, and located on the San Bernardino and Palm Desert campuses. For more information for nursing mothers, visit the Division of Student Affairs website (https://www.csusb.edu/human-resources/benefits/miscellaneous-benefits/lactation-room/).

Requests for reasonable academic accommodations can be made to Services to Students with Disabilities at (909) 537-5238 or email

ssd@csusb.edu. For more information about the rights of a parenting student, please contact the Institutional Equity & Compliance at (909) 537-5669 or visit their website (https://www.csusb.edu/institutional-equity-compliance/).

Centers & Institutes

CSUSB maintains a number of officially recognized Institutes and Centers with each of them focusing on leveraging faculty, staff, and student expertise for the benefit of the region we serve. Below is a brief description of all officially approved CSUSB centers and institutes with contact information and website links.

Approved Centers

Aging, Center on

The Center on Aging at CSUSB is a university-wide interdisciplinary unit sponsored by the College of Social and Behavioral Sciences. It was created in order to unite people and resources at CSUSB to better respond to the needs of a rapidly aging population in the Inland Empire. The goals of the Center on Aging are: (1) build strategic and lasting relationships between CSUSB, community-based organizations, and local governments in order to increase the quality of life for local older adults; (2) educate and train future professionals on the best practices for serving an aging population; and (3) conduct and disseminate world-class gerontology research.
Director: Eric Vogelsang, eric.vogelsang@csusb.edu, Department of Sociology, 909-537-5575
Visit the Center on Aging Website (http://centeronaging.csusb.edu/)

Community Counseling Center, CSUSB

The Community Counseling Center was established in 1973 as a training clinic to provide low-cost, longer-term counseling services for CSUSB students and staff, and for members of the community as well. The Center provides confidential, one-to-one counseling services for personal and emotional problems. The Center is staffed by faculty and graduate students in the Psychology Department at California State University, San Bernardino. Anyone experiencing problems in relationships, feeling anxious or depressed, or seeking help with other personal problems can receive confidential counseling from the Center.
Director: Christina Hassija, chassija@csusb.edu, (chassija@csusb.edu)Department of Psychology (909) 537-5481.
Visit the CSUSB Community Counseling Center Website (http://www.csusb.edu/ccc/)

Correctional Education, Center for the Study of

The Community Counseling Center (CCC) was established in 1973 as a training clinic to provide low-cost, longer-term counseling services for CSUSB students, alumni, and staff, as well as members of the larger San Bernardino community. The CCC provides confidential, one-to-one counseling services for personal and emotional problems to children, adolescents, couples, and adults. The CCC is staffed by graduate students working towards the requirements to become Marriage and Family Therapists in the state of California through the Psychology Department at California State University, San Bernardino. Individuals experiencing relationship issues, mild to moderate anxiety or depression, or seeking help with other personal and behavioral problems can receive confidential counseling from the CCC.
Director: Christina Hassija, chassija@csusb.edu, (chassija@csusb.edu) Department of Psychology (909) 537-5569
Visit the CSUSB Community Counseling Center Website (https://www.csusb.edu/ccc/)

Criminal Justice Research, Center for

The Center for Criminal Justice Research (CCJR) provides research and training services to communities, criminal justice agencies, and other organizations. Through grants and contracts with local partners, CCJR conducts innovative research activities to address current crime problems and security concerns. These partnerships between academia, practitioners, and the community are what keep the field moving forward.
Director: Gisela Bichler gbichler@csusb.edu, Department of Criminal Justice, 909-537-5510
Visit the Center for Criminal Justice Research Website (http://ccjr.csusb.edu/)

Cyber Security Center

The mission of the Cyber Security Center is to promote and study the application of cyber security, computer forensics and other related information assurance topics. California State University, San Bernardino (CSUSB) is a national leader in cyber security education. Since 2008, the National Security Agency and the Department of Homeland Security. CSUSB has been designated as a Center of Academic Excellence (CAE) in Cyber Defense. The center runs many grant-funded projects and student scholarship initiatives.
Director: Tony Coulson tcoulson@csusb.edu 909-537-5768
Visit the Cyber Security Center Website (http://iasm.csusb.edu/) (cyber.csusb.edu (http://cyber.csusb.edu))

Entrepreneurship, Inland Empire Center for

The Inland Empire Center for Entrepreneurship (IECE) is a multifaceted organization that supports and promotes entrepreneurship on campus and in the community through educational programs in entrepreneurship, business assistance services and advocacy. The focus of these efforts is on achieving impact – creating entrepreneurial startups and entrepreneurial managers, helping businesses in the community achieve new levels of success and raising the awareness of and support for entrepreneurship throughout the Inland Empire region. Notable programs include the Spirit of the Entrepreneur Awards, Garner Holt Student Fast Pitch Competition, Small Business Development Center, Women's Business Center and the Catalyst Student Business Accelerator.
Director: Michael Stull mstull@csusb.edu 909-537-5708
Visit the Inland Empire Center for Entrepreneurship Website (http://entre.csusb.edu/)

Global Management, Center for

The Center for Global Management is created in order to facilitate developing programs in international business and public administration and supports regional internationalization efforts for the benefit of the faculty, the students, and the local international communities.
Co-Director: Vipin Gupta vgupta@csusb.edu 909-537-5787
Co-Director: Frank Lin flin@csusb.edu 909-537-5700
Visit the Center for Global Management Website: *Coming soon!*

Hate and Extremism, Center for the Study of

The Center for the Study of Hate and Extremism at California State University, San Bernardino is a nonpartisan research and policy center that examines the ways that bigotry, advocacy of extreme methods, or terrorism, both domestically and internationally deny civil or human rights to people on the basis of race, ethnicity, religion, gender, sexual orientation, disability or other relevant status characteristic. The center

seeks to aid scholars, community activists, government officials, law enforcement, the media and others with objective information to aid them in their examination and implementation of law, education and policy.
Director: Brian Levin blevin@csusb.edu, Department of Criminal Justice, 909-537-7711
Visit the Center for the Study of Hate and Extremism Website (http://hatemonitor.csusb.edu/)

Health Equity, Center for

The Center for Health Equity will promote and accelerate faculty research at CSUSB in health disparities through mentorship and training from nationally recognized health disparities scientists. It will also provide a link between health disparities-related community organizations and university members; advance the number of CSUSB students seeking graduate careers in health disparities; and disseminate CSUSB faculty research and scholarship in the area of health disparities.
Director: Monideepa Becerra mbecerra@csusb.edu 909-537-5969
Co-Director: Caroline Vickers cvickers@csusb.edu 909-537-5684
Visit the Center for Health Equity Website (http://cphdrt.csusb.edu/)

Indigenous Peoples Studies, The Center for

The university offers a certificate program in Native Nations and Indigenous Peoples Studies, overseen by the Center for Indigenous Peoples Studies in the College of Social and Behavioral Sciences. The course work provides students with a broad introduction to Native Nations and Indigenous Peoples, creating a foundation for students to pursue advanced study or possible in employment in related fields. The curriculum is multidisciplinary, bringing together a diverse faculty of specialists. Core courses focus Indigenous cultures, history, cultural resource management and preservation, sovereignty, world systems analysis and the arts. Students then select courses in consultation with the certificate coordinator in order to meet both the certificate requirements and their own individual interests.
Director: James V. Fenelon jfenelon@csusb.edu, Department of Sociology, 909-537-7291
Visit The Center for Indigenous Peoples Studies Website (http://cips.csusb.edu/)

International Studies and Programs, Center for

The International Institute develops programs to enhance intercultural communications and understanding. It provides coordination, facilitation, and support of campus-wide faculty and student international program development and supports regional internationalization efforts, international business and exchange programs.
Director: John Binkley, tkarma@csusb.edu (john.binkley@csusb.edu), (909) 537-3909
Visit the Center for International Studies and Programs Website (https://goabroad.csusb.edu/)

Islamic and Middle East Studies, Center of

The Center for Islamic and Middle East Studies (CIMES) at CSUSB serves as a flagship for international dialogue and academic excellence for students and faculty as well as the local and international communities. The Center supports research, lectureships, curriculum development and community outreach in order to advance the study of Islam and the Middle East.
Director: Ahlam Muhtaseb, amuhtase@csusb.edu, Department of Communication Studies, 909-537-5897
Visit the Center of Islamic and Middle East Studies Website (http://cimes.csusb.edu/)

Labor Studies, Center for

The Center for Labor Studies promotes the economic and social advancement in the Inland Empire. The Center develops knowledge about the labor market in the Inland Empire, disseminate this knowledge in a way that contributes to social and economic advancement, and focus the skills and energies of members of the CSUSB community on issues relevant to labor in the Inland Empire. Importantly, the Center will give CSUSB students opportunities for research and extracurricular activities that will enhance their intellectual and personal development and will permit them to undertake leadership roles in the Inland Empire and beyond.
Director: Eric Nilsson enilsson@csusb.edu, Department of Economics, 909-537-5564

Leonard Transportation Center

As the world becomes more interconnected through the processes of globalization, domestic and international policies become more intertwined. Transportation and transnational studies are interlinked, especially for areas such as the Inland Empire, through the movement of goods, people, and ideas. These in turn are tied to local communities' quality of life. The understanding of outside influences (transnational studies) helps to better understand local impacts, which leads to better solutions. The Leonard Transportation Center focuses on transnational and local policy studies and solutions to assist communities, students, faculty, and international partners work together to improve life in the Inland Empire.
Director: Dr. Kimberly Collins kimberly@csusb.edu 909-537-5036
Visit the Leonard Transportation Center Website (http://leonard.csusb.edu/)

Mathematics Education, Center for the Enhancement of

The Center for the Enhancement of Mathematics Education identifies, analyzes, and addresses the needs of both in-service and pre-service mathematics teachers in the Inland Empire. The Center has taken the lead in developing collaborative grant proposals for mathematics, science and technology education with the county offices of education and K-12 school districts within the Inland Empire Region and currently manages the Inland Counties Mathematics Project (the regional site of the California Mathematics Project), three National Science Foundation projects (Noyce Scholarships, Noyce Fellowships, and Algebraic Concepts for Elementary Students), and the Department of Education-funded Teaching English Learners Early Mathematics project.
Director: Jeremy Aikin jaikin@csusb.edu, 909-537-5375
Co-director: Madeleine Jetter mjetter@csusb.edu 909-537-5377
Co-director: Lynn Scow Lynn.Scow@csusb.edu 909-537-5373
Business Manager: Karen Lin ylin@csusb.edu 909-537-7574
Visit the Center for the Enhancement of Mathematics Education Website (https://cns.csusb.edu/ceme/)

Media Arts Center (CAL MAC)

The College of Arts & Letters Media Arts Center is dedicated to the creation, production, and analysis of the media arts. It serves the region, the CSU, and the nation by providing a focus for interdisciplinary activities. The center's interests encompass film studies, video, photography, design, performance, music, press releases/articles, scripts/screenwriting, and all other print and electronic arts that are used to communicate

messages. The CAL-MAC supports the development of cross-disciplinary curricula, scholarship, artistic projects, activities, and outreach.
Visit the Media Arts Center Website (http://artsletters.csusb.edu/)

Second Language Acquisition, Center for the Advancement of

The CSUSB Center for the Advancement of Second Language Acquisition provides workshops for Inland Empire teachers to enhance their skills. The center presents programs honoring K-12 student achievements and provides enrichment activities. It also provides scholarships for students and teachers to attend summer seminars at UC Santa Barbara.
Director: World Languages and Literatures Department Chair
909-537-5847
Visit the Center for the Advancement of Second Language Acquisition Website (http://flan.csusb.edu/)

Teaching English Learners, Center for

The Center for Teaching English Learners serves as a resource center for prospective and practicing teachers whose classroom teaching is impacted by the presence of culturally and linguistically diverse (CLD) learners and who seek innovative strategies for teaching English; as a materials development laboratory for educational master's projects in the area of teaching English to speakers of other languages, as a resource and referral service for partnership school districts who seek training for teachers, and as locus for initiation of grant proposals in the area of providing high-quality education for English learners.
Director: Lynne Diaz-Rico diazrico@csusb.edu 909-537-5658

University Center for Developmental Disabilities

The UCDD provides evaluation, assessment, training, and support for autistic children, their parents and siblings. This is a clinical training program in the College of Education which focuses on Special Education credential programs in cooperation with the departments of Nursing, Social Work, and Psychology. The clinical program is under contract with the County Regional Center for client services.
Director: Dwight Sweeney dsweeney@csusb.edu 909-537-5495
Visit the University Center for Developmental Disabilities Website (https://csbs.csusb.edu/icdfr/funded-projects/university-center-developmental-disabilities/)

Watson and Associates Literacy Center

The Literacy Center offers tutoring in reading, writing and oral language for students across the K-12 grade levels as well as adults seeking empowerment and better life opportunities through literacy. Trained staff members pinpoint specific and general needs of children, adolescents and adults then design and implement remedial programs based on each individual's needs. This assessment and instructional emphasis is complemented by a research component.
Director: Catherine Terrell cterrell@csusb.edu 909-537-5697
Visit the Watson and Associates Literacy Center Website (http://literacy.csusb.edu/affiliates_watson.html)

Approved Institutes

Applied Research and Policy Analysis, Institute of

The Institute is a full-service consulting and applied research organization. The purpose of the Institute is to provide a variety of research and consulting services to public agencies, business organizations, and individuals within the university's service area and beyond. It provides customized research so that each client receives thorough, timely, practical and accurate information tailored for the decision-making needs of the particular organization. The institute advises in multiple disciplines, drawing knowledge through social and public policy research, surveys, feasibility studies, marketing studies and program evaluations.
Director: Barbara Sirotnik bsirotni@csusb.edu 909-537-5729
Visit the Institute of Applied Research and Policy Analysis Website (http://iar.csusb.edu/)

Child Development and Family Relations, Institute for

ICDFR is the umbrella organization, which covers many child and family related sub-projects established through partnerships between CSUSB and the surrounding community. Established in 2002, our mission is to promote the optimal development and well-being of the children and families in our geographic region. We do this through conducting research, providing services, and educating future professionals. The Institute draws upon the strengths and expertise of faculty throughout the university, who have devoted their careers to researching and teaching subjects related to both child development and the family dynamic.
Director: Mark Agars magars@csusb.edu, Department of Psychology
909-537-5433
Visit the Institute for Child Development and Family Relations Website (http://icdfr.csusb.edu/)

Inland Commerce and Security Institute

The mission of the ICSI is to promote the study, analysis and policies associated with the region's commerce and allied security activities. Further, the ICSI will become a center of excellence serving the commerce and security needs and aspirations of our students, faculty and community.
Executive Co-Director: C.E. Tapie Rohm, Jr. trohm@csusb.edu, 909-537-5786
Executive Co-Director: Jay Varzandeh, jvarzand@csusb.edu, 909-537-5730

Learning Research Institute

The CSUSB Learning Research Institute (LRI) promotes an interdisciplinary scholarly focus on the student learning experience and how it may be improved. The Institute supports this focus by sponsoring and conducting research activities that examine the cognitive, neurobiological, and environmental variables that contribute to the academic success of our diverse student body.
Co-Director: Jason Reimer jreimer@csusb.edu, Department of Psychology, 909-537-5578
Co-Director: Hideya Koshino hkoshino@csusb.edu, Department of Psychology, 909-537-5435
Visit the Learning Research Institute Website (http://lri.csusb.edu/)

Research, Assessment & Professional Development, Institute for

The Institute for Research, Assessment & Professional Development provides opportunities across the three domains of the institute (i.e., research, assessment, professional development) to enhance collaborations between program areas, faculty, graduate students and partnering activities with community agencies, such as the Department of Rehabilitation, Veterans Affairs, School Districts, Department of Corrections, and related community agencies. Services include (1)

Comprehensive Vocational Evaluations and Situational Assessments for individuals receiving services from the Department of Rehabilitation and (2) Neurofeedback interventions for the treatment of ADD/ADHD, anxiety, autism/Asperger's syndrome (mild-moderate), academic/performance enhancement, cognitive decline, conduct disorder, depression, stroke, post-traumatic stress disorder (PTSD), and other conditions. Neurofeedback (visit the Neurofeedback website (http://neurofeedback.csusb.edu/)), also known as cognitive rehabilitation or EEG biofeedback, is a ground-breaking technique that challenges the brain to better function. This powerful brain-based technique has been successfully helping clients around the world for more than 30 years. It is a noninvasive process with dramatic results for a multitude of symptoms. The effectiveness of neurofeedback for adults and children with a wide variety of symptoms has been repeatedly concluded in numerous research studies. Neurofeedback works by training the brain to function at its maximum potential, which is similar to the way the body is exercised, toned and maintained. The technology is safe and effective for children and adults ages 5 to 95.
Director: Connie McReynolds cmcreyno@csusb.edu 909-537-5453 / 909-537-5681
Visit the Institute for Research, Assessment & Professional Development Website (https://coe.csusb.edu/institutional-research-assessment-professional-development/)

Water Research Institute

The Water Resources Institute supports, coordinates and conducts regional and state wide policy analysis and research in all water-related areas. It has an extensive collection of current Geographic Information System-based data and historical records related to water, including aspects such as water rights, quantity, quality, treatment, and management. The institute also provides instruction in the form of federally-funded education programs, workshops, courses, certificates, and degree programs in water resources.
Director: Boykin Witherspoon bwithers@csusb.edu 909-537-7684
Visit the Water Resource Institute Website (http://wri.csusb.edu/)

Similar Organizations

Economic Education, California Council on

Statewide headquarters of the California Council on Economics Education which supports and encourages programs that provide K-12 teacher training in the economics method/enhancing K-12 economics curricular offerings to include information on the US economy, the world economic system, and the economic content of various social and political issues.
Director: R. J. Charkins rcharkin@csusb.edu 909-537-5553
Visit the California Council on Economic Education Website (http://www.ccee.org/)

Student Life

Office of the Vice President for Student Affairs

Santos Manuel Student Union South, Room 222
(909) 537-5185 Student Affairs website (https://www.csusb.edu/student-affairs/)

The Office of the Vice President for Student Affairs provides administrative leadership within the division and the university to assist students in attaining their educational goals. This is accomplished through advocacy for providing numerous student services and intentionally creating programs and environments that enhance a student's learning, leadership potential, personal responsibility, and career development. This office administers specific policies regarding student non-academic and discrimination-related grievances, discipline, and emergency calls for students. A more complete statement on student privacy rights is available in the Academic Regulations and Standards (p. 116) section of the Bulletin of Courses.

Activities

The diverse interests and lifestyles of students are reflected in numerous activities sponsored by the university, the Santos Manuel Student Union (SMSU), and Associated Students Inc. (ASI). These programs include dances, drama productions, choral concerts, semesterly festivals, musical concerts, guest lecturers, and small group socials.

The university, SMSU, and ASI encourage and aid the formation of organizations that enhance students' educational opportunities. These organizations involve students, faculty, and staff working together in professional, recreational, educational, political, service, religious, and cultural activities. University-recognized groups have full use of campus facilities in planning their programs.

To get involved at CSUSB, visit Coyote Connection (https://csusb.campuslabs.com/engage/) to find campus events, learn about specific student clubs and organizations, sororities, and fraternities, and explore a variety of campus-wide engagement opportunities.

Alumni Association

(909) 537-3700 Alumni Association website (http://alumni.csusb.edu/)

Your CSUSB Alumni Association strives to serve and unite alumni for the purpose of advancing CSUSB and the community. Staying connected to other CSUSB alumni and giving back to your alma mater has never been easier! A portion of every alumni association membership fee is donated to our endowment to support programming, events, chapters, student success, and more.

Join today at alumni.csusb.edu/join (https://www.alumni.csusb.edu/s/1874/rd/interior.aspx?sid=1874&gid=2&pgid=547) to stay connected, gain access to exclusive benefits on and off-campus, early registration access to special events, unique volunteer opportunities and so much more!

Connect with us!

Facebook: CSUSB Alumni Relations (https://www.facebook.com/CSUSBAlumniRelations/)

Instagram: @csusb_alumni (https://www.instagram.com/csusb_alumni/?hl=en)

Twitter: @CSUSBAlumni (https://www.twitter.com/csusbalumni/)

LinkedIn: CSUSB Office of Alumni Relations (https://www.linkedin.com/company/csusb-office-of-alumni-relations/)

Associated Students, Inc. (ASI)

(909) 537-5932 ASI website (https://www.csusb.edu/asi/)

The Associated Students, Incorporated (ASI) serves, empowers, and advocates on behalf of the students at California State University, San Bernardino, through the representation of student interests and needs, the inclusion of students in the decision-making process, the execution of premier events and services, and the provision of opportunities for students to be productive leaders of the campus community and beyond. Some of the services we offer are:

- **CAB Funding:** The Club Allocation Budget funds chartered campus clubs and organizations for on-campus events and conferences. For more information about the process of applying, contact the Vice President of Finance at asi-finance@csusb.edu or (909) 537-3936.
- **Graphic Design:** The ASI Graphics team provides a variety of design services for chartered student clubs and organizations at no cost. For more information, call (909) 537-7723 or send an email to asi-graphics@csusb.edu.
- **Howl Squad:** ASI's volunteer program offers CSUSB students a chance to get involved in ASI through various leadership opportunities. Students can choose to be part of the event planning process by helping with ASI events or participate in the governance process by serving as a student representative on campus-wide committees. For more information, visit www.csusb.edu/asi/howl-squad (http://www.csusb.edu/asi/howl-squad/).
- **Programming:** ASI hosts events to engage students in curricular and co-curricular activities that foster a sense of community and campus pride. For information about upcoming events or to submit event ideas, contact asi-programs@csusb.edu.
- **Scholarships:** As a commitment to academic success, ASI offers scholarships through its general fund as well as to the Athletic and Presidential Academic Scholars programs.
- **Coyote Garden:** Offering campus community engagement, the garden is cultivated by students who help grow food for campus events and the Coyote Den for distribution back to the student population. Please contact asi.sustainability@csusb.edu.

Athletics

Athletics website (https://csusbathletics.com/)

CSUSB Athletics began in the fall of 1984 and sponsors 10 sport programs. It is a member of the National Collegiate Athletic Association (NCAA) Division II and the California Collegiate Athletic Association (CCAA).

Admission to all home athletic contests is free to CSUSB students with valid student ID. All volleyball, soccer, basketball, and softball home contests take place on the CSUSB campus. The Coyotes baseball team competes at Fiscalini Field in San Bernardino.

The "Yotes" are winners of a 2019 NCAA national championship, 15 regional championships, and 29 conference titles. The Coyote Athletics

program promotes Champion Student-Athletes, Champion People, and Champion Performances.

Department of Basic Needs and Student Support

Santos Manuel Student Union South 118

(909) 537-FOOD (3663)

Email: BasicNeeds@csusb.edu

Department of Basic Needs & Student Support Website (https://www.csusb.edu/basic-needs/)

Basic Needs & Student Support Department, services and programs promote holistic well-being development of the student from entry, throughout progress, and beyond completion. We **engage** students inside and outside the classroom to provide basic needs services such as: food, housing, health and wellness, clothing, personal essentials, and financial resources. By **connecting** our students to support programs, we aim to increase persistence and completion, while empowering students to persevere and thrive in their educational journey.

Services and programs offered includes Obershaw DEN, PDC DEN, come grab a snack, Swipe Out Hunger, Cody's Closet - personal care and hygiene items, Holistic Advising, Emergency Grants, Emergency Housing placement, and CalFresh Assistant

SBC is located in the Santos Manuel Student Union South 118, and The PDC DEN is located in Health Science 118.

Career Center

(909) 537-5250 Career Center website (https://www.csusb.edu/career-center/)

Mission

Empowering students and recent alumni, the CSUSB Career Center is dedicated to fostering a comprehensive career readiness skill set that aligns with the evolving global market. Through a blend of exploration, tailored programming, and immersive experiential learning, we guide individuals in achieving their personal and professional aspirations while staying true to the spirit of CSUSB's commitment to student success, research, and regional engagement. By nurturing the holistic growth —professionally, ethically, and intellectually—of our students, alumni, faculty, and staff, we actively promote inclusive environments across industries.

Signature Programs and Services include:

- **On-Campus Recruitment:** The Career Center hosts 7-8 career fairs per academic year including one Graduate School Fair, with 300 plus employers and 50 plus graduate programs every year. In addition to job and internship fairs, recruitment opportunities include networking sessions, employer led workshops, and meet & greets.
- **Handshake:** A free online platform for CSUSB students and alumni to explore and apply for jobs/internships, view upcoming career fairs, panels, and workshops each semester.
- **Career Counseling:** Counselors are available to assist you with choosing, changing your major, career exploration, identifying internships, writing a résumé or cover letter, mock interviews, conducting a job search, and graduate school preparation.
- **Professional Development Programs: The Career Center hosts a series of professional development programs that serve to prepare students for engagement and recruitment opportunities. Our Career Fair Prep Week** is a series of workshops hosted by employers on topics ranging from resume, interviewing, and networking. In addition, the Career Center leads coordination of **Hispanic Association of Colleges and University (HACU) Conference** on behalf of the campus and provides students with a two-day preconference to prepare students for the annual event and HACU's award programs.
- **Clothing Resources:** The departments of Basic Needs and Student Support & the Career Center have partnered to relaunch Cody's Closet. The purpose of the clothing closet is to provide CSUSB students with daily personal wear and professional clothing to address clothing insecurities. Cody's Closet provides a FREE clothing resource for CSUSB students to access professional attire appropriate for career fairs, interviews, networking events, and the workplace. Professional attire available includes suits, blazers, skirts, button-down shirts, ties and more. Our aim is for students to feel confident and secure.
- **Internships:** We offer the Career Center Internship Award each academic year to support students participating in an internship opportunity, including assistance with connecting with relevant resources to find on- and off-campus internships year-round.

Children's Center

(909) 537-5928 Website (https://www.csusb.edu/childrens-center/)

The Children's Center's mission is to enable parents of young children to attend CSUSB by providing a preschool program and childcare in a nurturing environment which supports the developing child. Services are also available for staff, faculty, and community as space permits. The Center is open during the academic year (Monday through Friday, 7:00 a.m.-5:30 p.m.) and during Summer Session (Monday through Thursday, 7:00 a.m.-5:00 p.m., closed Fridays). Ages: 3 years (toilet trained) to 5 years. The school-age program only runs during the summer term and serves children from the ages of 6-12. Additional information regarding fees and availability may be obtained from the Children's Center.

Counseling and Psychological Services (CAPS)

Accredited by the International Association of Counseling Services

Student Health Center Building, West Entrance

(909) 537-5040 Counseling and Psychological Services website (https://www.csusb.edu/caps/)

Support from Counseling and Psychological Services is available to currently enrolled students for assistance with personal issues that may interfere with their efforts to achieve their educational or life goals, including adjustment to campus life, loneliness and sense of belonging, relationship concerns, anxiety, depression and other mood concern, grief, trauma, or any other issue of concern. An initial session includes assessment of presenting concerns and recommendations for further counseling at CAPS or referral to community resources. CAPS provides individual counseling, couples counseling, group counseling, and case management. CAPS also offers workshops on a wide variety of mental health related topics. All services are offered in person and virtually. CAPS is staffed by Licensed Clinical Psychologists, Licensed Marriage and Family Therapists, Licensed Clinical Social Workers,

Licensed Professional Clinical Counselors and supervised graduate and post-graduate interns. Fees for CAPS are covered by the health fee paid at the time of enrollment. Although the demand for counseling services is considerable, appointments are usually made within two weeks of the student's initial contact. If students have more urgent needs, they may be seen for same day walk in appointments. To schedule an assessment, call (909) 537-5040. Open Monday through Friday, call for hours. After-hours support can be obtained by calling the main CAPS phone number and selecting the option to speak with a mental health professional.

Community Engaged Learning

(909) 537-5793

Office of Community Engaged Learning (https://www.csusb.edu/community-engagement/)

The Office of Community Engaged Learning (OCEL) facilitates service learning, community-based research, and academic internships by engaging students, faculty, staff, and community partners in collaborative partnerships that serve the public good. We lead the university-wide culture of community engagement as a high-impact practice that contributes to student success. Contact us at: leaveyourpawprint@csusb.edu.

Housing and Residential Education

Cajon Hall-127 (Coyote Village)

(909) 537-4155 Housing and Residential Education website (https://www.csusb.edu/housing/)

Live with the Pack

The Department of Housing and Residential Education (DHRE) takes pride in providing services to students in a safe, well-maintained, inclusive residential community that supports student success. By fostering a healthy living and learning environment and opportunities for holistic growth and development, DHRE supports students as they pursue academic, personal, and professional goals.

Living on campus is convenient (no commute) and provides residents access to all the great academic and social resources campus has to offer. Residents have a unique opportunity to explore who they are while living in a supportive community of other students, faculty, and staff. Additionally, DHRE offers numerous Living Learning Communities (https://www.csusb.edu/housing/life-campus/living-learning-communities/) that support the personal development and academic success of first year, transfer, and continuing residents.

Visit the DHRE website (https://www.csusb.edu/housing/) for more information about the residential experience, how to apply for on-campus housing, or to take a virtual tour.

Office of Ombuds Services

Due to ongoing budgetary reductions, the Office of Ombuds Services closed January 1, 2024. We have multiple resources on campus that students, faculty, and staff can utilize to ensure safe spaces to resolve conflicts and bring systemic concerns to the administration's attention for responsible and impartial resolution. Below is a partial listing of these resources:
Student Resources:

- ASUA (https://www.csusb.edu/academic-success-and-undergraduate-advising/) (Academic Success & Undergraduate Advising) – (909) 537-5032
- CAPS (https://www.csusb.edu/caps/) (Counseling & Psychological Services) – (909) 537-5040
- CARE Team (https://www.csusb.edu/care-team/) (Campus Assessment, Response & Education) – (909) 537-2273
- Office of the Dean of Students (https://www.csusb.edu/node/524604/) – (909) 537-5185
- SSD (https://www.csusb.edu/ssd/) (Services to Students with Disabilities) – (909) 537-5238

Faculty and Staff Resources:

- EAP (https://www.csusb.edu/human-resources/current-employees/benefits/employee-assistance-program/) (Employee Assistance Program) – (909) 537-5138
- FAD (https://www.csusb.edu/faculty-affairs-development/) (Faculty Affairs & Development) – (909) 537-5029
- Employee & Labor Relations (https://www.csusb.edu/human-resources/current-employees/employee-relations/) – (909) 537-5138

Students, Faculty, & Staff:

- UPD (https://www.csusb.edu/police/) (University Police) – (909) 537-7777
- IEC (https://www.csusb.edu/institutional-equity-compliance/) (Institutional Equity & Compliance) – (909) 537-5669

Sincerely,

Toma#s D. Morales
President

New Student Orientation and Family Programs (NSOFP)

(909) 537-5233 | New Student Orientation and Family Programs website (https://www.csusb.edu/orientation/)

New Student Orientation and Family Programs is dedicated to fostering a welcoming and inclusive environment for newly admitted students and their families as they transition into university life. Through a broad range of informative and engaging programs and services, the office plays a pivotal role in promoting academic success, campus resource awareness, and student engagement needed to better manage their transition into the university and help set them up for success here at CSUSB. These transition programs prepare students for academic success, provide knowledge of university resources, encourage involvement in student activities, and help build meaningful relationships. Each orientation program is designed to minimize anxiety and to promote positive attitudes about student success on campus.

In addition to its core programming, the office emphasizes student leadership development by recruiting and training a dynamic team of student Orientation Leaders. These peer ambassadors serve as guides, mentors, and role models, fostering a sense of belonging and connection within the Coyote family. Applications are available in the fall, with training and the primary workload being in spring and summer.

By offering high-impact transitional experiences, the New Student Orientation and Family Programs Office cultivates an environment where

new students and their families can build meaningful relationships, gain confidence in navigating university life, and embark on a successful academic journey.

Santos Manuel Student Union (SMSU)

(909) 537-5940 SMSU website (https://www.csusb.edu/smsu/)

The Santos Manuel Student Union (SMSU) North and South buildings serve as a welcoming space for all students to socialize, relax, study, and participate in the campus community. SMSU programs, facilities, and centers offer a diverse range of cultural, social, educational, and recreational activities that support the development of students. Additionally, these services provide free resources such as snacks, school supplies, and personal care items.

SMSU North offers a variety of amenities and services to enhance the student experience. The first floor features the Coyote Lanes Bowling Alley, Coyote Cantina, Coyote Bookstore, The Habit Burger Grill, Panda Express, pool tables, and dining areas. The second floor boasts a spacious 12,000 square foot conference center, an outdoor plaza deck, and numerous spaces for relaxation or study. The third floor houses a variety of cultural centers designed to create safe spaces, foster community, and provide co-curricular programs for students. This includes the APIDA Center, First Peoples Center, Latinx Center, Pan-African Student Success Center, Osher Adult Re-Entry Center, Queer & Transgender Resource Center, and the Women's Resource Center. It also houses Associated Students Incorporated, the Undocumented Student Success Center, and the Office of Student Leadership & Engagement.

SMSU South houses multiple resource centers, campus departments, meeting rooms, lounge space, and study areas for students. The first floor features a multi-purpose Events Center, Financial Literacy Center, The Retreat, Career Center, multiple dining areas, theater, and a state-of-the-art Esports Arena. The second floor includes the Graduate Student Success Center, Program Board office, SMSU Marketing offices, the Office of the Vice President for Student Affairs, the Obershaw DEN, Basic Needs & Student Support, Coyotes Achieve, the Career Center, and the Office of First Year Experience.

For more information on events, facilities, and updates, visit the SMSU website at www.csusb.edu/smsu or follow us on social media @csusb.smsu.

SMSU centers and departments include:

Asian, Pacific Islander, and Desi American Center: SMSU North (SUN-3310)
The Asian, Pacific Islander Center (APIDAC) creates an inclusive space fostering social justice, equity, and student success. Through engaging educational events and community participation, the center affirms and celebrates cultural identities within the API community on campus.

Cross-Cultural Center: SMSU North (SUN-3306)
The Cross-Cultural Center (CCC) invites students to explore issues of identity, ethnicity, and cultural diversity across all backgrounds. Offering programs and services that contribute to personal, educational, cultural, social, political, and professional growth, the CCC also aims to build a sense of community for students from underrepresented backgrounds.

First Peoples Center: SMSU North (SUN-3309)
The First Peoples Center (FPC) is dedicated to supporting the academic achievement and personal success of First Peoples' students while promoting and celebrating traditional heritage at CSUSB. Its programs and services create innovative learning-centered opportunities for students.

Latinx Center: SMSU North (SUN-3308)
The Latinx Center (LC) offers a dynamic and inclusive environment for Latinos/as/x and allies. Striving to foster leadership opportunities and build community through culture, advocacy, and customs, the center is committed to recruiting, retaining, and graduating Latinx students at CSUSB.

Pan-African Student Success Center: SMSU North (SUN-3307)
The Pan-African Student Success Center (PASSC) supports the academic success, cultural awareness, leadership, and personal development of people of the African Diaspora. Its programs and services provide students with a sense of self-worth by focusing on academic excellence, cultural awareness, leadership development, personal development, and proactive community engagement.

Osher Adult Re-Entry Center: SMSU North (SUN-3316)
The Osher Adult Re-Entry Center (OARC) serves non-traditional/adult re-entry students, facilitating their transition to or return to university life. Acting as a bridge, the center provides programs and resources to enhance the college experiences of adult/transfer students.

Queer and Transgender Resource Center: SMSU North (SUN-3315)
The Queer and Transgender Resource Center (QTRC) serves the greater campus community through education, advocacy, and social justice. It focuses on creating an inclusive and supportive environment for all university members, including LGBTQIA+ students and allies. QTRC programs and resources educate and advocate on issues such as homophobia, heterosexism, inclusive language, and other sexual orientation or gender identity issues.

Women's Resource Center: SMSU North (SUN-3314)
The Women's Resource Center (WRC) provides support for students by offering a variety of programming and resources that focuses on the lives of women. Committed to addressing sexism and discrimination, the WRC provides a space for students to gather, receive support, and learn tools for social change.

Financial Literacy Center: SMSU South (SUS-111)
The Financial Literacy Center (FLC) empowers students to confidently navigate their finances in a way that supports their overall well-being. Through workshops, coaching, and collaborative efforts, the center equips students with knowledge, skills, and motivation to develop healthy financial habits.

E-Sports Arena: SMSU South (SUS-118)
The SMSU E-Sports Arena (SUS-118) provides a space for students to unwind, socialize, and enjoy free video gaming sessions. The center hosts free competitions, events, and training throughout the semester to help students de-stress and build community within their peers.

Graduate Student Success Center: SMSU South (SUS-202)
The Graduate Student Success Center (GSSC) provides support and community to graduate students at CSUSB. Serving as an information hub from orientation to graduation and beyond, the center supports academic success through tailored workshops, programs, panels, collaborative efforts, and networking opportunities.

Rancho Mirage Student Center: Palm Desert Campus (RG-111)
The Rancho Mirage Student Center (RMSC) serves as the campus social hub for students at the Palm Desert Campus. It provides resources and

support that emphasize student success, retention, and graduation rates through student engagement in extra-curricular activities. It strives to enrich the University experience and campus life through entertaining and educational events and activities for students.

Services to Students with Disabilities (SSD)

University Hall, Room 183
(909) 537-5238, TTY (909) 537-7230
Fax: (909) 537-7090, Email: ssd@csusb.edu
Services to Students with Disabilities website (http://ssd.csusb.edu)

The Office of Services to Students with Disabilities (SSD) strives to empower students with disabilities by fostering skills, such as self-advocacy, resourcefulness, and independence. The SSD office works collaboratively with the campus community to remove barriers, promoting an enriched learning environment where students with disabilities can utilize their skills and pursue their academic and personal development goals.

SSD provides academic accommodations to students who have a documented permanent or temporary disability. All students who are registered with the office are provided with an equal opportunity to participate in programs, services, and activities.

Some of the support services available include but not limited to alternate media, notetaking, smartpens, sign language interpreting and real-time captioning services for the hearing impaired, test-taking accommodations, priority registration, mobility assistance, and temporary medical parking permits. The SSD office is also a resource to faculty and staff members who help students with disabilities meet their educational objectives.

The SSD Office, in collaboration with the California State Department of Rehabilitation (DOR), provides the WorkAbility IV program. WorkAbility IV is designed to create career opportunities for CSUSB students with disabilities that are consumers of DOR. Knowledgeable staff assists registered students with résumé writing and cover letter development; job search skills, strategies, and resources; preparation for job fairs and interviews; networking and personal brand development; internships; job leads and placements; and Federal employment advising (Schedule A and Workforce Recruitment Program).

Both prospective and new students to the university are encouraged to contact SSD early in their CSUSB academic program.

Student Clubs and Organizations

Office of Student Leadership and Engagement
(909) 537-5234 Office of Student Leadership and Engagement website (https://www.csusb.edu/student-engagement/)

Student Clubs and Organizations
CSUSB is home to more than 100 student clubs and organizations that offer a wide range of roles and responsibilities. Clubs and organizations provide ready-made laboratories for students to strengthen their leadership skills and opportunities to test classroom learning in a real-world setting. They create their very own experiment with different roles, which help identify strengths, weaknesses, and preferences. Academic, cultural, faith-based, service, and special interest organizations are just a few examples of the types of clubs available to students. Membership in a club or organization is an excellent way to enjoy all the benefits that college life has to offer and to help students find their community. Students will learn how to lead an organization, manage effective meetings, and conduct elections, as well as develop communication, mediation, and public-speaking skills.

Fraternity and Sorority Life
Fraternity (https://www.csusb.edu/student-engagement/) and Sorority membership is a great way to get involved on campus. CSUSB is home to 18 national fraternities and sororities. The fraternity and sorority community at California State University, San Bernardino has had a long rich history dating back to 1986. Since that time, they have had a continued and active presence on campus. The University is supportive of the goals and ideals of the fraternity and sorority community, which complement the mission of the institution. These ideals include academic achievement, personal development, leadership, campus involvement, community service and civic responsibility, and responsible social conduct. In addition to the fraternities and sororities on campus, governing councils and Greek Honor Societies exist to foster relationships between the organizations and set high scholarship standards.

National Student Exchange Program
National Student Exchange (NSE) offers study opportunities at over 150 diverse university settings across the US, US territories, and Canada and provides access to a wide array of courses and programs. Program benefits include academic, cultural, and personal experiences that will enhance the student's undergraduate education. NSE features a tuition reciprocity system that allows students to attend their host institution by paying either the in-state tuition/fees of their host institution or the normal tuition/fees here at Cal State San Bernardino. NSE students can exchange for a single term or a full academic year. Course work completed while on exchange at the host campus is brought back to the home institution and credited to the student's degree program.

Coyote Connection
For more information on campus activities and involvement opportunities, visit Coyote Connection https://csusb.campuslabs.com/engage (https://csusb.campuslabs.com/engage/).

Campus Activities

- Club Fair
- Engagement Expo
- Fraternity / Sorority Recruitment and Engagement
- Launching Into Leadership Series
- Social Justice Summit

Involvement Opportunities

- Clubs and Organizations
- Fraternities & Sororities
- Leadership Programs
- National Student Exchange

Student Conduct and Ethical Development (SCED)

University Hall, Room 346
(909) 537-7172, Email: student-conduct@csusb.edu
Student Conduct and Ethical Development website (https://www.csusb.edu/student-conduct/)

The Office of Student Conduct and Ethical Development is responsible for upholding the *Standards for Student Conduct* and educating students on their social and ethical responsibilities as members of our University community. Student Conduct Administrators facilitate educational

conversations, experiences, and programs that promote student success, enhance learning experiences, and seek to engage students in intentional ways with their communities. The staff comprising the Office of Student Conduct and Ethical Development are committed to ensuring students have safe and healthy living and learning environments in which they are able to engage in campus life, interact with people who have a variety of beliefs and lived experiences, and participate in activities that encourage growth and curiosity, as well as scholarly and creative activity. Being a part of the Coyote community includes responsibilities for students to safeguard the academic mission of the institution; abide by federal, state, and local laws; and uphold the *Standards for Student Conduct*, University policies, and regulations to maintain a culture of integrity both in and out of the classroom.

The Office of Student Conduct and Ethical Development responds to a variety of behavioral concerns, including academic dishonesty and behavioral complaints. Behavior that is not consistent with the Standards for Student Conduct *(*https://www.csusb.edu/sites/default/files/upload/file/Student%20Code%20of%20Conduct.pdf*)* (Title 5, §41301, California Code of Regulations) or conducive to promoting a safe living and learning community is addressed in accordance with Executive Order 1098 Revised (August 14, 2020) – Student Conduct Procedures *(*https://calstate.policystat.com/policy/8453518/latest/*).* Copies of the *Standards for Student Conduct* and *Student Conduct Procedures* are available online (https://www.csusb.edu/student-conduct (https://www.csusb.edu/student-conduct/)) or via the Office of Student Conduct and Ethical Development, University Hall, Room 346.

Program staff are also available as a resource for consultation and to provide educational workshops or presentations upon request.

Student Health Center (SHC)

Accredited by the Accreditation Association for Ambulatory Health Care
(909) 537-5241 Student Health Center website (https://www.csusb.edu/student-health-center/)

Office hours are:

Monday, Wednesday and Thursday: 8:00 a.m. - 5:00 p.m. and Tuesday and Friday: 9:00 a.m. - 5:00 p.m.

The Student Health Center (SHC) is closed on official university holidays and campus closure dates. Summer hours may vary. Please check the SHC website for availability.

The SHC supports students' academic success by providing high quality accessible health and psychiatric care as well as health education and wellness services in a safe, confidential and compassionate environment.

We are staffed with caring doctors, physician assistants, nurse practitioners, nurses, medical assistants and health educators. Our services include: limited primary care and psychiatry, immunizations, TB skin tests, labs, prescriptions, physicals, contraception, first aid, reproductive health, medication abortion and care for minor illnesses. The SHC on the San Bernardino campus is also conveniently equipped with a pharmacy and laboratory. On the Palm Desert Campus, students obtain services off campus for prescriptions and lab orders.

The Department of Health Promotion empowers students to achieve optimal health and well-being through engaging and interactive health education programs and activities. Hosted by professional health educators and well-trained peer health educators, these programs promote not only healthier lifestyles but also a healthier campus culture and an enhanced learning environment.

All regularly enrolled students pay a student health fee and are eligible for health services. There is no fee for office visits, however fees may apply for physicals, laboratory testing, prescriptions, vaccines and other services. Care beyond our scope may be referred out.

Basic health care is provided by the Student Health Center, however, major illness and injury, as well as certain conditions requiring a specialist or hospitalization, are beyond our scope of service. Students requiring additional care will be referred to an outside provider. Students are encouraged to maintain health insurance to help cover the cost of health care received outside the Student Health Center.

Student Health Advisory Committee (SHAC): Students can offer important feedback about services and participate in campus-wide health initiatives through membership on the Student Health Advisory Committee (SHAC). SHAC members work with clinic staff on a variety of critical issues, health education projects, and also act as liaisons between the CSUSB student body and the Student Health Center.

Student Immunization Requirements

CSUSB has implemented the following requirements and recommendations in accordance with the California State University (CSU) Policy (Executive Order 803) on immunization requirements and the CSUSB Student Immunization Policy (https://www.csusb.edu/policies/student-immunization-policy/). These policies apply to undergraduate and graduate students[1], students[1]matriculated in self-support degree programs and K-12 students[1]participating in concurrent enrollment courses entering the CSU.

Required Immunizations

CSUSB requires that students are current for the immunizations listed below. This requirement is not an admission requirement but is a condition of enrollment at CSUSB for undergraduate and graduate students[1], students[1]matriculated in self-support degree programs and K-12 students[1]participating in concurrent enrollment courses entering the California State University (CSU).

Required Immunizations:

- **Measles, mumps and rubella (MMR)**: Two doses with the first dose on or after the first birthday; OR positive titer (laboratory evidence of immunity to disease)
- **Hepatitis B (Hep B)**: Students age 18 and younger are required to complete the series. Based on the type of vaccine, the series is either two or three doses. (California Health & Safety Code, Section 120390.5)

Recommended Immunizations and Screenings

Recommended Vaccines to Reduce Outbreaks:

- Influenza (flu): Annually for all students, regardless of age.
- Meningococcal Conjugate (Serogroups A, C, Y, W-135): At least one dose at age 16 or older for students through age 21.
- Meningococcal B (Meningitis B): Complete series, may be two or three doses, for students age 16 through 21.
- Tetanus, diphtheria, pertussis (Tdap): One dose within the last ten years.

Other Vaccines Recommended for Adults:

- Hepatitis A (Hep A): All students regardless of age.
- Hepatitis B (Hep B): Students age 19 and older.
- Human Papillomavirus (HPV): For all students through age 45.
- Pneumococcal: For all students age 65 and older and for students with certain medical conditions (e.g., severe asthma, diabetes, chronic liver or kidney disease)
- Poliovirus (polio): Regardless of age, if the series was not completed as a child.

Recommended Screening/Risk Assessment:

- Tuberculosis (TB) screening / risk assessment: All incoming students should complete a tuberculosis risk assessment questionnaire. Incoming students who are at higher risk for TB infection, as determined by the screening questions, should undergo testing for TB infection within 30 days of CSUSB entry.

Meeting the Requirement

Students may fulfill the immunization requirements by submitting medical documentation of immunization online through the secure Patient Portal on the Student Health Center website (https://www.csusb.edu/student-health-center/).

Exemptions

Students are permitted to seek exemptions to the above immunization requirements for medical or for sincerely held religious beliefs. Students seeking an exemption will be required to submit an Exemption Request Form to the University.

Additional Discretionary Requirements

In the event of a local or campus-based outbreak of a vaccine-preventable disease, the local public health department and/or the California Department of Public Health is authorized to require immunizations beyond those currently required. CSUSB will consult with the appropriate public health authority in case of an outbreak.

Academic Program and Fieldwork or Clinical Placement Requirements

All students enrolled in healthcare fields of study or teacher education programs are required to provide documentation regarding the completion of immunizations and health screenings as established by the state licensing agencies or clinic placement sites or fieldwork sites. Students should contact the academic program for the specific required immunizations, health screenings (e.g., Tuberculosis screening and physical examination) and any other fieldwork or clinic placement requirements.

Registration Holds

Students who are not compliant with the University's immunization requirements may be subject to a registration hold. This hold may be implemented for the second semester of their enrollment at the University and will prevent registration for future terms.

[1]Students are defined as all incoming students, with the exception of the following:

A. Students enrolled in fully online degree programs

B. Students enrolled in non-credit, professional development/ extended education programs such as Extension or Open University

Student Recreation and Wellness Department

(909) 537-BFIT Recreation and Wellness Department website (https://www.csusb.edu/recreation-wellness/)

The Recreation and Wellness Department offers an exciting array of facilities, programs and services in the areas of fitness, group exercise, well-being, intramural and club sports, aquatics, adventures, and informal recreation. The Department operates several facilities on campus including the Student Recreation & Wellness Center (SRWC), Retreat, Leadership Challenge Center, and Aquatics Center. The marquee 38,000-square-foot SRWC, located at the east end of campus, houses a 34' climbing wall, 8,800-square-foot fitness room, multi-purpose athletic court, locker rooms, outdoor training area, and two group activity rooms for group exercise, dance, and martial arts classes. The Recreation and Wellness Department is dedicated to providing a variety of safe and enjoyable programs, services, and facilities to meet the diverse needs of the CSUSB community by creating a healthy social environment, enriching the quality of life and enhancing the educational experience. All enrolled CSUSB students, staff, faculty, and Alumni Association members regardless of age, gender, experience, and ability are welcomed.

Fitness

The fitness program offers one-on-one training, buddy training, personal training and group exercise development courses, and fitness assessments as a complement to our state-of-the-art fitness room. The Group Exercise program offers a diverse and robust weekly class schedule. All programs are designed to enhance the participant's experience and facilitate healthy living habits. Equipment and program examples include:

- Treadmills
- Elliptical Trainers
- Recumbent/Upright Bike
- Steppers
- Weight Trainers
- Functional Training Equipment
- Free Weights
- Plate Loaded Equipment
- Heavy/Speed Bags
- Fitness Consultations & Assessments
- Cardio Classes
- Cycling Classes
- Dance Classes
- Instructional Classes
- Mind/Body Classes
- Sculpt Classes

Well-being @ The Retreat

Located at the heart of campus (1st floor of the Santos Manuel Student Union South Building) is the Retreat. This facility is equipped with everything you need to retreat from your daily stressors including massage chairs, relaxation lounge, mind/body room and nap space. Utilizing the holistic model of well-being created by the Be Well Yotes team, the facility also offers programs related to the many Dimensions of Well-being including financial, physical, emotional, spiritual, social, intellectual, and environmental.

Informal Recreation

The hours of the SRWC are designed to meet the demands of the busy lives of our participants with several opportunities from the early opening hours until the late evening. When there is not organized play in the gymnasium or group exercise rooms, drop-in use is allowed. Members can meet up with friends to shoot hoops or practice their hip-hop or martial arts skills. Informal recreation hours will be posted outside of each of the three available rooms.

Climbing Wall

As the centerpiece of the SRWC, a 34' climbing wall offers opportunities for beginner and intermediate classes, belay clinics, open climbing, and social events. All equipment is provided, and a safety orientation and skills test are offered to participants.

Adventure Trips

The unique location of the campus within close proximity to the Pacific coastline, the wilderness of Baja, the peaks of the Sierra Nevada Mountains, and the High Desert allows for a wide range of activities. Participants on trips will learn how to safely explore the great outdoors, develop an appreciation and understanding of their natural surroundings, engage in cultural and urban excursions, experience personal growth, leadership development, learn teamwork and healthy communication skills, and, of course, have fun.

Intramural Sports

The Intramural Sports program offers a variety of sport leagues and tournaments for all skill levels and interests. Opportunities are available for participants who just want to learn a new sport or for the very competitive players who want to own on-campus bragging rights. Intramural sports leagues are designed for players to enjoy themselves in a safe environment. Sports include:

- Basketball
- Flag Football
- Soccer
- eSports
- Softball
- Volleyball

- Bowling
- Indoor Soccer

Sport Clubs

The Sport Club program promotes student participation in a wide range of competitive and recreational sports. Each sport club is managed and run by student leaders. Sport Club participants not only enjoy the rewards of competition, but also gain skills in collaboration, leadership, problem-solving, and financial management. Current clubs include:

- Jui Jitsu
- Tennis
- Women's Soccer (SBC and PDC)
- Men's Soccer (SBC and PDC)
- Badminton Club
- Karate Club
- Cheerleading

- Powerlifting

Aquatics

The Aquatics Center is located behind the Physical Education building. Hours vary and can be found on the Recreation and Wellness webpage. Services include:

- Lap Swimming
- Certification and Training
- Learn To Swim Instructional Classes

Leadership Challenge Center

The state-of-the-art Leadership Challenge Center provides unique team-building and leadership development programs for CSUSB students, departments, clubs, and teams. The center also serves the surrounding community for groups such as school districts, military, and corporations alike.

Our programs are designed to help teach people how to appropriately build trust in others, increase individual interpersonal skills, social skills, and physical abilities. The Leadership Challenge Center consists of the 50-foot-high structure, as well as low challenge elements built lower to the ground. The team elements section allows teams of two to eight people to work together and support each other in problem solving, as well as an individual/partner portion that emphasizes support and goal setting. The center's programs provide a safe environment that allows participants to step outside their comfort zone, take a risk, learn, and grow.

University Police

911 for emergencies
(909) 537-5165 or (909) 537-7777 for police business

The University Police Department is a duly authorized law enforcement agency. The mission of the department is to safeguard the lives and property of the campus community. The department provides professional service to the University community through proactive patrol, diligent crime prevention, and disaster preparedness. We provide these services utilizing our core values of honor, integrity, and a commitment to excellence using a community COP (Campus Oriented Policing) approach. The Department's mission is reflected in our motto "Campus Safety Through Service."

CSUSB’s peace officers have statewide police authority, and are vested with law enforcement powers and responsibilities, identical to the municipal police or sheriff's departments in our community. The officers provide a full range of service, including law enforcement, crime reporting and investigation, crime prevention training, motorist assistance, traffic enforcement, accident investigation, lost and found property, disaster preparedness, escorts, and medical and fire emergency response and coordination. The University Police Department provides 24 - hour protection, 365 days a year, and can be reached by dialing 911 for emergencies and (909) 537-5165 or (909) 537-7777 for all other requests.

A complete "Campus Safety Report" is available through the home university web page CSUSB website (http://www.csusb.edu), in a pamphlet from University Police, or from Human Resources. Additional information is available on the university web page under the University Police tab.

Veterans Success Center

(909) 537-5195 Veterans Success Center website (http://veterans.csusb.edu/)

Since opening in May 2012, the Veterans Success Center (VSC) at CSUSB has built a strong reputation throughout the Inland Empire for offering innovative leadership opportunities and education programs. The center is ranked as a top school in the nation by Military Times and as a top military school in the State of California by three top national college guides for veterans. On Nov. 10, 2014, the VSC opened its second location at the CSUSB Palm Desert campus to better serve Coachella Valley veterans and dependents. The center's mission is to support former, current, and future service members of the United States Armed Forces and their dependents with the **transition** from higher education to career, **navigation** through their academic experience, and **celebration** of their service and achievements, by offering high-quality support services, resources, and events. With locations at San Bernardino Campus and Palm Desert Campus, the VSC is a dedicated space that houses computer labs and group rooms for students. Both centers offer dynamic programs that are comprehensive in scope and sensitive to the unique needs of service members. Services include the School Certifying Official for education benefits, advising, orientation, seminars, a weekly support group, tutoring, IT services, advocacy and referral services, a military veteran’s writers group, arts and crafts, and much more. The VSC is dedicated to providing a safe and healthy environment and provides services in hybrid format when necessary.

Financial Information

The CSU makes every effort to keep student costs to a minimum. Tuition and fees listed in published schedules or student accounts may need to be increased when public funding is inadequate. Therefore, CSU reserves the right, even after tuition or fees are initially charged or initial payments are made, to increase or modify any listed tuition or fees. All listed fees, other than mandatory systemwide tuition, are subject to change without notice, until the date when instruction for a particular semester or quarter has begun. All CSU-listed tuition and fees should be regarded as estimates that are subject to change upon approval by the Board of Trustees, the chancellor, or the presidents, as appropriate. Changes in mandatory systemwide tuition will be made in accordance with the requirements of the Working Families Student Fee Transparency and Accountability Act (Sections 66028 – 66028.6 of the Education Code).

Fees

Cash, checks and ATM debit cards will be accepted at Student Financial Services. Electronic checks, VISA, MasterCard, Discover, and American Express will be accepted through a third party vendor. There is no fee for electronic checks. A service fee will be assessed for credit card payments. The application fee, identification card fee, enrollment deposit, SOAR fees, housing nonrefundable prepayment, and late registration fees are nonrefundable.

The following reflects applicable systemwide tuition and fees for both semester and quarter campuses. ***These rates are subject to change.***

2025-26 Schedule of Tuition and Fees

The following reflects applicable systemwide tuition and fees for both semester and quarter universities for undergraduate, credential, graduate, postbaccalaureate and doctoral programs.

Mandatory systemwide tuition is waived for those individuals who qualify for such an exemption under the provisions of the California Education Code (see section on fee waivers). Students are charged campus fees in addition to tuition and systemwide fees. Information on campus fees can be found by contacting the individual CSUs.

These rates are subject to change.

All Students	
Application fee (nonrefundable), payable online at the time of application via credit card or PayPal	$70.00
Mandatory systemwide tuition is waived for those individuals who qualify for such an exemption under the provisions of the California Education Code (see section on fee waivers).	
Students are charged campus fees in addition to tuition and systemwide fees. Information on campus fees can be found by contacting the individual CSUs.	
Basic Tuition 2025-26	**Per Semester**
Undergraduate Tuition	
6.1 or more units	$3,225
0 to 6.0 units	$1,869
Credential Program Tuition	
6.1 or more units	$3,744
0 to 6.0 units	$2,172
Graduate/Post Baccalaureate Tuition	
6.1 or more units	$4,032
0 to 6.0 units	$2,172
Graduate Business Professional Fee*	$303.00
Doctoral Programs Tuition	
Education	$6,648
Nursing Practice	$8,580

* The graduate business professional fee is paid on a per unit basis in addition to applicable systemwide tuition and campus fees for specific graduate business programs authorized to assess the fee. A list of academic programs authorized to assess the fee can be found on the CSU (https://www.calstate.edu/attend/paying-for-college/csu-costs/tuition-and-fees/Pages/basic-tuition-and-fees.aspx) Tuition website (https://www.calstate.edu/apply/paying-for-college/csu-costs/tuition-and-fees/Pages/basic-tuition-and-fees.aspx).

Nonresident Students (U.S. and Foreign)

Nonresident tuition (in addition to basic tuition and other systemwide fees charged all students) for all CSUs:

Charge Per Unit	$444
The total nonresident tuition paid per term will be determined by the number of units taken.	

Credit Cards: Visa, MasterCard, American Express and Discover credit cards may be used for payment of student tuition and fees but may be subject to a non-refundable credit card processing fee.

2026-27 Schedule of Tuition and Fees

The following reflects applicable systemwide tuition and fees for both semester and quarter universities for undergraduate, credential, graduate, postbaccalaureate and doctoral programs.

These rates are subject to change.

All Students	
Application fee (nonrefundable), payable online at the time of application via credit card or PayPal:	$70
Mandatory systemwide tuition is waived for those individuals who qualify for such an exemption under the provisions of the California Education Code (see section on fee waivers).	
Students are charged campus fees in addition to tuition and systemwide fees. Information on campus fees can be found by contacting the individual CSUs.	

Applicable term tuition applies for universities with special terms, as determined by the campus. Total college year tuition cannot exceed the academic year plus summer term tuition. The summer term tuition for the education doctorate at quarter universities is equal to the per semester tuition listed in the table. Total tuition for the education doctorate over the college year equals the per academic year tuition plus the per semester tuition for the summer term at all CSUs.

2026-27 Basic Tuition	Per Semester
Undergraduate Tuition	
6.1 or more units	$3,419
0 to 6.0 units	$1,981
Credential Program Tuition	
6.1 or more units	$3,969
0 to 6.0 units	$2,302
Graduate/Post Baccalaureate Tuition*	
6.1 or more units	$4,274
0 to 6.0 units	$2,480
Graduate Business Professional Fee	$303
Doctoral Programs Tuition	
Education	$7,047
Nursing Practice	$9,095

* The graduate business professional fee is paid on a per unit basis in addition to basic tuition and campus fees for specific campus graduate business programs authorized to assess the fee. A list of academic programs authorized to assess the fee can be found on the CSU (https://www.calstate.edu/apply/paying-for-college/csu-costs/tuition-and-fees/Pages/basic-tuition-and-fees.aspx) Tuition website. (https://www.calstate.edu/apply/paying-for-college/csu-costs/tuition-and-fees/Pages/basic-tuition-and-fees.aspx)

Nonresident Students (U.S. and Foreign)

Nonresident tuition (in addition to basic tuition and other systemwide fees charged all students) for all CSUs:

Charge Per Unit	$471
The total nonresident tuition paid per term will be determined by the number of units taken.	

Credit Cards: Visa, MasterCard, American Express and Discover credit cards may be used for payment of student tuition and fees but may be subject to a non-refundable credit card processing fee.

Federal Refund Policy

Effective September 1, 2000, federal financial aid regulations are very strict concerning dropping classes after receiving Federal Grant Aid. Students are expected to complete a minimum number of units per term. By dropping all classes prior to the 60% mark of the term, students will owe a repayment based on a chart of percentages available in the Financial Aid Office. Once repayment has been calculated, students have 30 days to repay the funds.

Federal financial aid regulations also state that students may not pay a prior debt with future financial aid. This means that students must repay the amount due prior to receiving future financial aid. Before deciding to drop classes, students should meet with a Financial Aid Advisor in the Financial Aid Office in University Hall to make an appointment with a financial aid advisor. The advisor will calculate the expected repayment of federal grant funds and will explain options.

Additional Fee Information

Additional fee information may be found on the Student Financial Services website (https://www.csusb.edu/student-financial-services/).

Parking and Transportation Services

(909) 537-5912; parking@csusb.edu
CSUSB Parking website (http://parking.csusb.edu/)

Parking and Transportation Services is located in University Hall Room 039. The office is open from 8:00 am to 5:00 pm, Monday through Friday.

All vehicles parked on campus must display a valid CSUSB permit. Students may purchase semester or annual permits online. Daily parking permits may be purchased from any of the parking permit machines located throughout the campus,

Drivers assume all risks when parking on campus. Neither the University nor the State of California is responsible for loss or damage to vehicles or to personal property within the vehicle when parked on campus.

Parking field staff will provide motorist assistance if you require a battery jump or lock your keys inside of your vehicle. You may phone for service at (909) 537-5165.

Alternative Transportation

CSUSB encourages the use of sustainable modes of transportation by students, faculty, and staff. Swipe your CoyoteOne card for free, unlimited rides on the OmniTrans and Sunline buses. Visit the transportation website for more information including vanpool, carpool, partner matching, incentives, and the Palm Desert Campus shuttle.

Availability of Institutional and Financial Assistance Information

The following information concerning student financial assistance may be obtained fromOffice of Financial Aid & Scholarships, University Hall 150, (909) 537-5227.

- A description of the federal, state, institutional, local, and private student financial assistance programs available to students who enroll at CSUSB;
- For each aid program, a description of procedures and forms by which students apply for assistance, student eligibility requirements, criteria for selecting recipients from the group of eligible applicants, and criteria for determining the amount of a student's award;
- A description of the rights and responsibilities of students receiving financial assistance, including federal Title IV student assistance programs, and criteria for continued student eligibility under each program;

- Provide information to students about the institution's satisfactory academic progress standards that students must maintain for the purpose of receiving financial assistance and criteria by which a student who has failed to maintain satisfactory progress may reestablish eligibility for financial assistance (appeals process);
- The method by which financial assistance disbursements will be made to students and the frequency of those disbursements;
- The way the school provides for Pell-eligible students to obtain, or purchase required books and supplies by the seventh day of a payment period and how the student may opt out;
- The terms of any loan received as part of the student's financial aid package, a sample loan repayment schedule, and the necessity for repaying loans;
- The general conditions and terms applicable to any employment provided as part of the student's financial aid package;
- The terms and conditions of the loans students receive under the Direct Loan Program;
- The exit counseling information the school provides and collects for student borrowers; and
- Contact information for university offices available for disputes concerning federal, institutional and private loans.
- Information concerning the cost of attending CSUSB is available from Admissions & Student Recruitment, University Hall 107, (909) 537-5188, and includes:
  - Tuition and fees;
  - The estimated costs of books and supplies;
  - Estimates of typical student housing, food, and transportation costs; and
  - If requested, additional costs for specific programs.

Information concerning the refund policies of CSUSB for the return of unearned tuition and fees or other refundable portions of institutional charges is available from Student Financial Services, University Hall 034, (909) 537-5162.

Information concerning policies regarding the return of federal Title IV student assistance funds as required by regulation is available from the Office of Financial Aid & Scholarships, University Hall 150, (909) 537-5227.

Information regarding special facilities and services available to students with disabilities may be obtained from Services to Students with Disabilities, University Hall 183, (909) 537-5238.

Information concerning CSUSB policies, procedures, and facilities for students and others to report criminal actions or other emergencies occurring on campus may be obtained from University Police, UP 101, (909) 537-5165.

Information concerning CSUSB annual university security report and annual fire safety report may be obtained from University Police, UP 101, (909) 537-5165.

Information concerning the prevention of drug and alcohol abuse and rehabilitation programs may be obtained from University Police, UP 101, (909) 537-5165.

Information regarding student retention and graduation rates at CSUSB and, if available, the number and percentage of students completing the program in which the student is enrolled or has expressed interest may be obtained from Student Affairs, Student Union 222, (909) 537-5185.

Information concerning athletic opportunities available to male and female students and the financial resources and personnel that CSUSB dedicates to its men's and women's teams may be obtained from Athletics Department, Health & PE Complex 106, (909) 537-5011.

Information concerning teacher preparation programs at CSUSB, including the pass rate on teacher certification examinations, may be obtained from the Watson College of Education, CE 221, (909) 537-5600.

Information concerning grievance procedures for students who feel aggrieved in their relationships with the university, its policies, practices and procedures, or its faculty and staff may be obtained from https://www.csusb.edu/ombuds (https://www.csusb.edu/ombuds/).

Information concerning student activities that CSUSB provides, must be easily accessible on CSUSB's website (https://www.csusb.edu/).

Information concerning student body diversity at CSUSB, including the percentage of enrolled, full-time students who are (1) male, (2) female, (3) Pell Grant recipients, and (4) self-identified members of a specific racial or ethnic group, must be obtained from the Office of Marketing & Communications, AD 188, (909) 537-5007.

The federal Military Selective Service Act (the "Act") requires most males residing in the United States to present themselves for registration with the Selective Service System within thirty days of their eighteenth birthday. Most males between the ages of 18 and 25 must be registered.

Selective Service registration forms are available at any U.S. Post Office, and many high schools have a staff member or teacher appointed as a Selective Service Registrar. For more information on the Selective Service System and to initiate the registration process, visit the official Selective Service System website (https://www.sss.gov/).

Information concerning other available campus services is listed below:

- University-related problems, complaints or concerns.
  Ombuds Services, Pfau Library 268, (909) 537-5635.
- Provides policies and complaint procedures regarding Title IX discrimination on the basis of sex, educational, extracurricular and athletic activities.
  Student Conduct & Ethical Development, University Hall 346, (909) 537-7172
- Provides comprehensive career services for the advancement of student learning and career success.
  Career Center, Student Union 108, (909) 537-5250.

Financial Aid

Office of Financial Aid & Scholarships
(909) 537-5227 Office of Financial Aid & Scholarships (http://finaid.csusb.edu/)

The Office of Financial Aid & Scholarships administers a variety of Federal and State programs to assist eligible students. Sources of aid include the Federal Pell Grant, Supplemental Educational Opportunity Grant (SEOG), Cal Grant A & B, Federal Direct Loans, TEACH Grant and the Federal Work-Study program. Private/alternative loans are also available. The Office of Financial Aid & Scholarships also administers the State University Grant (SUG), Graduate Business Grant (GBG), Ed Doctorate Grant (Ed Doc) and Educational Opportunity Program Grant

(EOP). A full description of the university's financial aid programs is available on the Office of Financial Aid & Scholarships website.

- We recommend completing the Free Application for Federal Student Aid (FAFSA) by the priority deadline of March 2nd each year to be considered for the Cal Grant Programs. Applications are still accepted throughout the school year to be considered for other types of financial aid, as long as funding is available. You may complete the FAFSA at the Federal Student Aid website (https://studentaid.gov/h/apply-for-aid/fafsa/).
- The California Student Aid Commission's (CSAC) C (http://www.csac.ca.gov/)alifornia DREAM Act Application (https://dream.csac.ca.gov/landing/) (CADAA) is used to determine the financial aid eligibility of students who meet the qualifications of AB540, and who are without a valid immigration status. We recommend completing the CADAA by the March 2nd priority deadline each year to be considered for all CSAC financial aid programs. Applications are still accepted throughout the school year to be considered for other types of financial aid as long as funding is available. The application collects basic personal and income information to determine a student's eligibility for funding under AB 131.

Federal Work-Study. Work-Study is a federally funded program that provides part-time employment for students who are eligible to participate in need-based financial aid programs. Work-Study students are placed in on and off-campus positions to help offset a portion of their educational expenses. Work-Study at CSUSB also provides opportunities for students to develop job skills and secure academic or career-oriented jobs. For additional information visit the Office of Financial Aid & Scholarships website or contact the Student Employment Team at (909) 537-5226 or (909) 537-5479.

Financial Aid Chart

You may contact the Office of Financial Aid & Scholarships for questions and assistance with all aid programs.

Scholarships

Types of aid	Who can help	Determination of eligibility	Repayment requirement
Local scholarships	High school or college counselor	GPA, need	No
University scholarships	University financial aid officer	GPA or GPA and need	No

Grants

Types of aid	Who can help	Determination of eligibility	Repayment requirement
Federal Pell Grant	University financial aid officer	Need	No
Federal Supplemental Educational Opportunity Grant (SEOG)	University financial aid officer	Need	No
Federal TEACH Grant	University financial aid officer	Enrollment/major	*
Cal Grant A & B, Fellowships	University financial aid officer, High school or college counselor	GPA, need	No
Federal Educational Opportunity Program Grant (EOP)	University E.O.P. director or University financial aid officer	Need	No
State University Grant (SUG)	University financial aid officer	Need	No
Graduate Business Grant (GBG)	University financial aid officer	Need	No
Ed Doctorate Grant (Ed Doc)	University financial aid officer	Need	No
Chafee Grant	California Student Aid Commission	Foster Youth	No

* Potential to become repayable (consult with a financial aid officer)

Federal Loans

Types of aid	Who can help	Determination of eligibility	Repayment requirement
Direct Subsidized Loan	University financial aid officer	Enrollment	Yes
Direct Unsubsidized Loan	University financial aid officer	Enrollment	Yes
Direct Parent Loan for Undergraduate Students	University financial aid officer	Enrollment	Yes
Grad Plus Loan for Graduate Students	University financial aid officer	Enrollment	Yes

Work-study (on and off-campus)

Types of aid	Who can help	Determination of eligibility	Repayment requirement
Federal work-study program	University financial aid officer	Need	No

DREAM Aid-The California Dream Act allows students who meet certain criteria (as defined by AB 540) to apply for and, if eligible, receive financial aid

Types of aid	Who can help	Determination of eligibility	Repayment requirement
Privately funded scholarships	University financial aid officer, high school or college counselor	GPA, need	No
DREAM Grant (SUG)	University financial aid officer, high school or college counselor	GPA, need	No
DREAM Cal Grants	University financial aid officer, high school or college counselor	GPA, need	No
DREAM EOP Grant	University financial aid officer, high school or college counselor	GPA, need	No
California Dream Loan	University financial aid officer	Enrollment, GPA, need	Yes

Other financial assistance programs are available through Veterans Administration, California State Rehabilitation, ROTC, Social Security, Bureau of Indian Affairs and other public assistance agencies. Please visit the Office of Financial Aid & Scholarships website for more information.

Academic Regulations and Standards

All students who register at California State University, San Bernardino in resident study must first be admitted to the university by the Office of Admissions and Student Recruitment.

No student may attend classes unless officially registered and appropriate fees have been paid. Students are required to make all payments on the regularly announced days.

Students are granted credit only for those courses in which they are formally registered and are responsible for completing all courses under their name on the schedule confirmation list, except those courses they officially change through myCoyote Self Service.

Class Level of Students

Students are classified at the end of each term according to total earned credits accepted for transfer and/or completed at California State University, San Bernardino as follows:

Status	Units earned
Lower-division	
Freshman	0-29.9 units
Sophomore	30-59.9 units
Upper-division	
Junior	60-89.9 units
Senior	90 units or more
Postbaccalaureate	Holding a baccalaureate degree from an accredited college and not pursuing a graduate degree program (2nd B.A./certificate)
Unclassified	No degree or credential objective, nor pursuing a 2nd B.A. or B.S. or certificate
Conditionally classified	Completing prerequisite requirements for the credential
Classified	Pursuing a credential
Graduate	Postbaccalaureate student pursuing a graduate degre
Conditionally classified	Completing prerequisite requirements for graduate degree
Classified	Admitted to the degree program

Advising

Students must take responsibility for the decisions which affect their academic progress. Faculty, staff, and peer advisors at the university are available to assist students by providing academic advisement during their office hours or by appointment.

However, before a student meets with an advisor, the following steps are highly recommended:

1. Become knowledgeable about university policies, procedures and requirements.
2. Review your PAWS (Program Advising Worksheet for Students) before your advising appointment. Create and update your myCAP (myCoyote Academic Planner).
3. Develop a tentative course schedule using the Academic Catalog, Class Schedule, PAWS, myCAP, and Roadmap.
4. Gather all relevant decision-making information such as work schedules or other time commitments.
5. Prepare a list of questions or topics to discuss with the advisor. This is a good opportunity to discuss educational and career goals.

Academic Advisor

Students can meet with a faculty, professional, or peer advisor each term for help planning their academic programs and schedules of classes. To contact an advisor, visit Academic Advising or contact the appropriate department in your myCoyote Student Center. Students who have yet to declare a major should contact the office of Academic Advising. All students should confer with an advisor regularly.

Academic Probation

Undergraduate students who are placed on academic probation must confer with an academic advisor in the office of Academic Advising prior to registration and must adhere to the advisor's specific recommendations which are designed to improve the student's grade point average and overall success at CSUSB. Students in EOP (Educational Opportunity Program) must meet with the EOP office for academic probation.

Academic Course Load

Students planning to finish their undergraduate degree requirements in four years by attending two semesters each academic year must complete a minimum of 15 degree applicable units per semester. To be considered full-time for veterans benefits and financial aid purposes, an undergraduate student must enroll in a minimum of 12 units. Students may register for up to 18 units per semester**.**

Unit Overloads

A student may register for more than 18 units only upon petition to their college dean. Normally, petitions are approved only if both the grade point average for the previous term and the overall grade point average are 3.0 or better. Additional units may be added once "Late Registration" begins, if classes remain open and the overload is approved. During summer, only 14 max units are allowed for the term.

Mandatory Basic Skills

Mandatory Basic Skills

College-level skills in written communication (composition), mathematics (quantitative reasoning), oral communication, and critical thinking are fundamental for success at the university.

To determine the appropriate first-year General Education Composition and Mathematics courses, all new students should consider their appropriate category (determined by admission, using multiple measures including high school English and mathematics/quantitative reasoning courses completed and grades earned; high school grade point averages (GPA); grades in collegiate courses; test scores such as the SAT; Advanced Placement (AP) or International Baccalaureate (IB) scores; Smarter Balanced Assessment/Early Assessment Program (EAP) scores; and the English Department’s Directed Self-Placement (DSP) assessment

for written communication) to determine the appropriate course sequence or pathway.

For written communication/composition course(s), students may choose to enroll in any of the first-year General Education composition options (ENG 1050A - ENG 1060A), (ENG 1050B - ENG 1060B), (ENG 1070A) or (ENG 1070B) . They must remain enrolled in their chosen option until their General Education requirement has been completed (ENG 1060A, ENG 1060B, ENG 1070A or ENG 1070B).

For quantitative reasoning/mathematics course(s), after consultation with an advisor, students may enroll in a General Education mathematics course (MATH 1101, MATH 1201 , MATH 1301, MATH 1401, MATH 1601 , or MATH 2210) or the appropriate stretch course option (MATH 1102 - MATH 1103 ; or MATH 1202 - MATH 1203; or MATH 1302 - MATH 1303; or MATH 1402 - MATH 1403 . Students must remain enrolled in in their chosen option until their General Education requirement has been completed. For placement in math courses**,** additional evaluation may be required.

It is recommended that students should complete the first-year composition and mathematics courses during the first year of enrollment.

System-wide Placement Requirements

To provide consistent guidance to prospective CSU students and secondary schools, the following standards shall be applicable at each CSU campus. Placement in courses that satisfy CSU General Education (GE) Mathematics/Quantitative Reasoning and Written Communication requirements will be based on four categories described below. For students demonstrating indicators near the placement thresholds, campuses may make exceptions to this placement guidance, based on information regarding the academic progression of students. These exceptions may include outcomes of directed self-placement exercises.

Category I: Has fulfilled the GE University Foundations Subarea 3 or 5 requirement

Student has met the CSU GE Breadth University Foundations Subarea 3 and/or 5 requirement via Advanced Placement (AP) examination, International Baccalaureate (IB) examination or transferable course.

Category II: Placement in a GE University Foundations Subarea 3 or 5 course

Student has met examination standards and/or multiple measures-informed standards. Recommend GE written communication (ENG 1070A or ENG 1070B) or math/quantitative reasoning (MATH 1101, MATH 1201, MATH 1301 , MATH 1401 , MATH 1601 , or MATH 2210 with additional evaluation) course.

Category III: Require placement in a supported GE University Foundations Subarea 3 or 5 course or the first term of an applicable stretch course.

Based on new multiple measures, student needs additional academic support. Participation in the Supportive Pathways for First-Year Students Program is recommended and highly advisable for some students, particularly STEM majors.

Category IV: Require placement in a supported GE University Foundations Subarea 3 or 5 course or the first term of an applicable stretch course.

Based on new multiple measures, student needs additional academic support. Participation in the Supportive Pathways for First-Year Students Program is recommended and highly advisable for some students, particularly STEM majors..

Accelerated Progress

Some students choose to accelerate progress toward completion of their objectives through a program of independent study and registration for additional course credits.

In addition, credit-by-examination procedures permit students to demonstrate their mastery of the content of local courses, as described below, or courses offered through the Advanced Placement Program, International Baccalaureate Program, or the subjects tested by the College Level Examination Programs.

Students wishing to enroll for additional course work during the academic year should follow the procedures described in the section on academic course load, above.

Advanced Placement

CSUSB grants credit toward its undergraduate degrees for successful completion of examinations of the Advanced Placement Program of the College Board. Students who present scores of three or better will be granted up to six semester units (nine quarter units) of college credit.

Credit by Examination

Students may challenge courses by taking examinations developed at CSUSB.

Credit shall be awarded to those who pass them successfully.

A student who already possesses, or through independent study is able to acquire, the skills or knowledge of the ideas and concepts of a course can accelerate progress through the university. Students must register for the examination in the office of the college or department concerned before the first day of classes of the term in which the course is offered. Some presumptive evidence is required to indicate that the student has a reasonable chance of passing the examination. The student must complete the examination within the first two weeks of the term. Courses may be designated by a college, school, department or appropriate unit as inappropriate to be challenged by examination on the basis that course content is not suited to such examination.

No fee is charged for these examinations. A student who passes an examination is given the grade of CBE for that course, provided that this does not duplicate credit counted for his admission to the university. No official record is made of failures in these examinations.

Examinations for course credit are given under the following restrictions:

1. They may be taken only by students matriculated through regular enrollment at the university in courses other than the one(s) to be challenged.
2. They may not be taken by students who have received credit for work in the subject in advance of the course in which the examination is requested, except where permission is granted by the college or department concerned.
3. They may not be taken to raise grades or remove failures in courses.
4. Once students have successfully challenged a course, they may not subsequently enroll in the course for credit. Units attempted, units earned and grade points for any such enrollment will be disallowed.

5. A maximum of 27 units of credit may be received through such examinations.
6. A student may repeat an examination for credit only upon approval of the associate provost for academic programs.
7. Credit by examination may not be used to fulfill the minimum residency requirement.
8. The course must be offered during the term in which the examination is taken. However, students may not enroll in a course they plan to challenge. If the challenge is unsuccessful, the student may add the course subject to the regulations for adding a class printed in the *Class Schedule*.

Exact times and places of examinations are announced by the departments concerned. Students who wish to take an examination should consult the departmental office well in advance.

Credit for Non-Collegiate Instruction

CSUSB grants undergraduate degree credit for successful completion of non- collegiate instruction, either military or civilian, appropriate to the baccalaureate degree, which has been recommended by the Commission on Educational Credit and Credentials of the American Council on Education. The numbers of units allowed are those recommended in the Guide to the Evaluation of Educational Experience in the Armed Services and the National Guide to Educational Credit for Training Programs.

For regulations concerning credit by examination in graduate programs refer to Graduate Degree and Program Requirements (p. 74).

Credit for Comprehensive Examination Courses

Any student admitted to this campus may earn degree credit for no more than three comprehensive examination courses regardless of the total units earned in those courses. This maximum is to be counted separately from all other out-of-class curriculum options (for example, credit by examination). The student's major discipline may further restrict the number of comprehensive examination credits acceptable toward the major.

In cases where the subject matter of a comprehensive examination course duplicates that of a course taken previously, the university's Repeat of Course policy will apply. In no instance will duplicate credit be awarded for a repetition of subject matter.

Appeal of Admission Decision

Section 89030.7 of the California Education Code requires that the CSU establishes specific requirements for appeal procedures for a denial of admission. Each CSU must publish appeal procedures for applicants denied admission to the university. The procedure is limited to addressing university decisions to deny an applicant admission to the university.

Admission appeal procedures must address the basis for appeals, provide 15 business days for an applicant to submit an appeal, stipulate a maximum of one appeal per academic term, provide specific contact information for the individual or office to which the appeal should be submitted and indicate a time estimate for when the university expects to respond to an appeal. The appeal procedures must be included in all denial of admission notifications to students and must also be published on the university website.

Appeal Procedures for Applicants Denied Admission to CSUSB (https://www.csusb.edu/admissions/apply-csusb/what-if-i-dont-qualify/)

Concurrent Enrollment

A student in good academic standing at California State University who has completed at least 12 semester units of work at the university, and who is eligible to register as a continuing student for the subsequent term, may enroll concurrently at another college.

Undergraduate students wishing to complete courses at another institution must submit a Concurrent Enrollment contract (http://registrar.csusb.edu/evaluations/concenrollment.html) with the Office of the Registrar 2-3 weeks prior to the start of the term. Credit may not be awarded for course work completed without this prior approval. Approval will only be granted for California Community Colleges, or other local institutions with which articulation agreements are in place. Upon completion of the course(s), the student must request that an official transcript be sent to CSUSB.

Courses that use non-traditional off-campus delivery systems, such as self-paced instruction, correspondence courses, or on-line computer instruction and testing may be required to be proctored through the Testing Office.

Intrasystem and Intersystem Enrollment Programs

Fully matriculated students enrolled at any CSU campus have access to courses at other CSU campuses on a space available basis unless those campuses/programs are impacted. This access is offered without students being required to be admitted formally to the host campus and in most cases without paying additional fees. Students should consult their home campus academic advisors to determine how such courses may apply to their specific degree programs before enrolling at the host campus.

There are two programs for enrollment within the CSU and one for enrollment between CSU and the University of California or California Community Colleges. Additional information about these programs is available from the Office of the Registrar (https://www.csusb.edu/registrar/).

CSU Fully Online Courses – Matriculated students in good standing may request enrollment in one course per term, offered by a CSU host campus. Enrollment requests will be granted based on available space, as well as completion of any stated pre-requisites. Credit earned at the host campus is electronically reported to the student's home campus to be included on the student's transcript at the home campus.

CSU Visitor Enrollment – Matriculated students in good standing enrolled at one CSU campus may enroll at another CSU campus for one term. Credit earned at the host campus is reported at the student's request to the home campus to be included on the student's transcript at the home campus.

Intersystem Cross Enrollment – Matriculated CSU, UC or community college students may enroll on a "space available" basis for one course per term at another CSU, UC, or community college and request that a transcript of record be sent to the home campus.

UCR/CSUSB Cross Registration Program

On a limited basis, students may be permitted to take advantage of courses offered at the nearby University of California campus in Riverside. Note: this opportunity is available only for undergraduate courses not

normally offered at CSUSB and is subject to availability of space at UC Riverside after their early registration process is completed. The following conditions apply:

1. A limited number of students may participate.
2. A limit of one course per student per term.
3. The student is matriculated and currently enrolled in a degree program.
4. Students attending CSUSB on I-20 visas may participate, but must be concurrently enrolled in (and complete) at least 12 units at CSUSB, and may enroll only in upper-division courses that are not offered at CSUSB.
5. Student must pay sufficient (full) tuition fees at the Home Campus. No additional registration fees will be required at the Host Campus.
6. The desired course is not offered at the Home Campus.
7. Student must be in good academic standing.
8. Student must observe all academic deadlines and regulations of the Host Campus.
9. Enrollment is subject to space availability and consent of the instructor.
10. Student must meet course prerequisites of the Host Campus.
11. Records of grades will be maintained by the Host Campus and forwarded to the Home Campus. The Home Campus will include the "transfer" work on the student's transcript, with a footnote indicating that the course was taken through the exchange program.
12. Residence credit will be granted for courses taken by CSUSB students under this arrangement.
13. Cross-registration students will have the use of library facilities at the Host Campus. The student is not eligible for other student services or facilities.

Class Schedule

An official academic term *Class Schedule*, prepared each term by the university, includes the registration schedule, procedure for registration, fees, classes offered by hours and instructors, and other pertinent registration information. The schedule is available just prior to advisement and registration each term at the Academic Scheduling website (https://www.csusb.edu/academic-scheduling/). Students are responsible for being aware of information contained in the academic term *Class Schedule*.

Registration Procedures

All registration, including schedule adjustments (adds and drops) and late registration, will be accomplished using myCoyote Self Service.

Simultaneous Enrollment

Procedures have been established whereby a student may enroll in two classes that are scheduled to meet at overlapping times. The student should obtain an approval for a Simultaneous Enrollment. Students will discuss with the instructors for both of the courses involved to make special arrangements, then obtain the approval of both class department chairs. To obtain these approvals, submit a request through the **Permission Request** link from your Student Center.

Late Registration

The dates of late registration each term will be announced in the academic term *Class Schedule*. The university calendar lists registration dates. Late registrants may find themselves at a disadvantage in arranging their programs due to closed classes. A $37.50 late registration fee is required for students not already enrolled by the late registration deadline.

Auditing Courses

Enrollment in any course as an auditor shall be permitted only after students otherwise eligible to enroll in the course on a credit basis have had an opportunity to do so and only upon consent of the instructor. Auditors are subject to the same fee structure as credit students, and regular class attendance is expected.

Credit for courses audited will not subsequently be granted on the basis of the audit. Transcripts are not issued for audited courses.

Once enrolled as an auditor, a student may not change to credit status unless such a change is requested within the first week of class and is approved by the instructor. Students registered for credit may change their status from that of enrolled student to that of auditor with the approval of the class instructor concerned and within the first four weeks of class.

Forms for such changes may be obtained at the Office of the Registrar in University Hall.

Class Attendance

Regular attendance is expected of all students enrolled at the university. The instructor of each class sets specific standards expected of students.

A student absent from classes is responsible for arranging to make up missed class work and assignments. In cases of prolonged absence, the student should investigate the feasibility of withdrawal from the university.

Adding Classes

During the Open Enrollment and Schedule Adjustment period (see academic term Class Schedule *(*https://www.csusb.edu/class-schedule*/)* for specific dates) students may add classes by following the Registration Instructions detailed in the academic term *Class Schedule*. It is important to note that students who add a class or classes after the first scheduled class session may find themselves at a distinct disadvantage in terms of doing well in the class(es). Students should also be aware that they are responsible for any material they may have missed as a result of adding after the first day.

Adding an Open Class

Beginning with the first day of classes, students may add classes if space is available through the first week (five business days) of the term via myCoyote Self Service. During the second and third weeks of the term, classes may be added with the permission of the instructor. During the fourth week of the term, students will need the permission of the instructor and the department chair in order to add a class. Students will need to request permission through their myCoyote Student Center via Permission Request under Academics. Students may not add classes after the end of the fourth week of the term except for serious and compelling reasons and only with the approval of the instructor, the Department Chair, and Dean of the College in which the course resides. For questions concerning this policy, contact the Office of the Registrar at (909) 537-5200 or email at registrationhelp@csusb.edu.

Adding a Closed Class

During the first four weeks of the term, students may add a closed class with the permission of the instructor and the department chair. Students may not add closed classes after the end of the fourth week of the term except for serious and compelling reasons and only with the approval of the instructor, the Department Chair, and Dean of the College in which the course resides. Students will need to request permission through their myCoyote Student Center via Permission Request under Academics.

Retroactive Add

Requests for adding a class following the close of the term (retroactive add) will only be considered in the event of an error on the part of the university. Petitions for retroactive adds will be considered by the Associate Vice President & Dean of Academic Success and Undergraduate Advising for undergraduates or the Dean of Graduate Studies for postbaccalaureate and graduate students and will require documentation from the instructor that will indicate that the student attended the class and earned a passing grade.

Drops and Withdrawals

Beginning Fall 2009, undergraduate students may not exceed 18 semester units of withdrawals (grade of "W"). Withdrawals completed prior to Fall 2009 are not included in this total. This limit applies only to courses taken at CSUSB, including courses taken through Open University, the College of Extended and Global Education and special sessions. The policy for all undergraduate students will be available at the CSUSB Academic Advising (https://www.csusb.edu/advising/) website. For credential, postbaccalaureate, and graduate students, the policy can be found in the Graduate Programs section of the current Bulletin under “Retroactive Withdrawals.”

Census Date

Census Date (also known as Census Day) refers to two very important deadlines:

1. Last day a student can add a class (by permit since it is the fourth week of classes)
2. Last day a student can drop a class without a record on the student's transcript.

Specific Census Dates for each term are listed in the Academic Calendar (p. 27) and in the academic term Class Schedule *(*https://www.csusb.edu/class-schedule/*)*. Census Date falls on the last day of the fourth week of the Fall, Spring, and Summer (Regular) Session. Census Date for Summer Session 6W1 and Summer Session 6W2 falls on the sixth day in either session. Census Date for the Winter Intersession falls on the third day of the session.

Dropping Classes

A drop is defined as a withdrawal through Census Date. Drops do not produce a record on the student's transcript.

Students should read this section carefully to understand fully when and for what reasons they may drop a course themselves.

It is the students' responsibility to verify their schedules prior to Census Date. Grades will be assigned for every course in which they are officially registered. It is also the students' responsibility to drop by Census Date any class which they do not plan to attend and complete. While an instructor **may** drop students for non-attendance during the first four weeks of classes (see "Administrative Drop Policy"), students should not assume this will be done.

Dropping Classes through Census Date

During the Open Enrollment and Schedule Adjustment period (see academic term Class Schedule *(*https://www.csusb.edu/class-schedule/*)* for specific dates) students may drop classes by following the Registration Instructions detailed in the academic term *Class Schedule*. Students may drop a class during the first four weeks of the Fall and Spring terms (i.e. from the first day of instruction through Census Date), and the course will not appear on their permanent records; however, a refund will not be granted if the drop is beyond the refund deadline date. See the academic term *Class Schedule* for specific dates for each term, including Summer and the Winter Intersession.

Administrative Drop

Faculty members may initiate an administrative drop of a student in their courses through their department's administrative support coordinator. Students will be notified of these administrative drops via their CSUSB email. Students should not assume that they will be automatically disenrolled, however. Instead, they are strongly encouraged to check their myCoyote to confirm course enrollment and drops every term. Administrative drops are based on the following criteria:

Lack of attendance

Students who fail to attend two consecutive class meetings during the first four weeks of the term without contacting the faculty member or making special arrangements **may** be dropped. Students in on-line or hybrid classes who fail to make contact with the instructor either in person or electronically (via e-mail or Canvas) within the first four days of the start of the term may also be dropped during the first four weeks of the term.

Prerequisites not met

Students who are unable to show completion of required courses or who do not have the background needed to succeed in the course may be dropped.

Declared majors

Students who have not been formally admitted to certain major programs may be dropped from courses that are open only to declared majors in that program. To remain in such classes, permission of the instructor may be required.

Students should not assume they are automatically disenrolled. Instead, they are strongly encouraged to check their myCoyote to confirm course enrollment and drops every term.

If the administrative drop reduces the student's unit load below 6.1 units, the student may be eligible for a refund of certain fees. However, it is the student's responsibility to file a request for a refund of fees by the deadline printed in the academic term Class Schedule (https://www.csusb.edu/class-schedule/). Questions regarding refunds should be addressed to the Office of Student Financial Services by calling 909-537-5162 or emailing sfs@csusb.edu.

Withdrawing from Classes

Cancellation of Registration or Withdrawal from the Institution

Students who find it necessary to cancel their registration or to withdraw from all classes after enrolling for any academic term ***are required*** to follow the university's official withdrawal procedures. Failure to follow formal university procedures may result in an obligation to pay fees as well as the assignment of failing grades in all courses and the need to apply for readmission before being permitted to enroll in another academic term. Information on canceling registration and withdrawal procedures is available from the Registration Help Desk at 909-537-7671.

Students who receive financial aid funds ***must consult*** with the Financial Aid & Scholarships Office prior to withdrawing from the university regarding any required return or repayment of grant or loan assistance received for that academic term or payment period. Students who have received financial aid and withdraw from the institution during the academic term or payment period may need to return or repay some or all of the funds received, which may result in a debt owed to the institution.

Withdrawal from classes after Census Date

A course dropped after Census Date is defined as a withdrawal and a grade of "W" will be posted to the student's record if the withdrawal is approved. Beginning Fall 2009, undergraduate students may withdraw from no more than 18 semester units during their entire undergraduate academic career at CSUSB.

Withdrawals after Census Date and through the end of the twelfth week of the term are permitted only for serious and compelling reasons. See the Summer academic term Class Schedule *(*https://www.csusb.edu/class-schedule*/)* for withdrawal dates during the summer terms. The student will be required to submit a petition through the Permission Request process within your myCoyote Student Center. Documentation to support the request to withdraw is required. Poor performance or poor attendance in the course is not an acceptable reason to withdraw from a course during this period.

Withdrawals during this period will require written documentation along with the approval of the instructor, the department chair or school director of the class, and the Dean of the College of the student's major. Courses officially withdrawn during this time period will show a grade notation of "W" (withdrawn) on the student's transcript for the dropped course(s). Students receiving a "W" are still subject to fees for the courses. In certain circumstances, withdrawals after Census Date may qualify for an exemption to the 18 semester unit maximum. Such requests must meet the same standard and be processed in the same manner as described in the next section of this policy.

Withdrawal from classes in weeks thirteen through the last day of instruction shall not be permitted except in cases, such as accident or serious illness, where the cause of withdrawal is due to circumstances clearly beyond the student's control, and the assignment of an Incomplete is not practicable. Withdrawals of this sort may involve total withdrawal from the campus or may involve one or more courses. Before submitting a petition to withdraw from class, students are strongly advised to discuss with their instructor(s) the possibility of receiving an Incomplete. In cases in which sufficient work has been completed to permit an evaluation to be made, a grade and credit or an Incomplete may be assigned to allow the student to retain credit for work which would otherwise be lost due to complete withdrawal.

Requests for permission to withdraw in weeks thirteenth through the last day of instruction must be made by petition with documentation to support the request to withdraw. These requests will be reviewed by the Director of Advising and Academic Services, UH-380. If approved, such withdrawals will not count against the 18 semester units students are allowed to withdraw.

Excessive or Unauthorized Withdrawal

Students who do not officially withdraw or who exceed the 18 semester unit maximum will receive a grade notation of "WU" (withdrawal unauthorized) in the course, which for purposes of grade point averages is equivalent to an "F." Students receiving a "WU" are still subject to fees for the courses. Failure to follow formal university procedures may result in an obligation to pay fees as well as the assignment of failing grades in all courses not officially dropped, and the need to petition for readmission before being permitted to enroll in another academic term.

Term Withdrawal through Census Date

During the Open Enrollment and Schedule Adjustment period (see academic term Class Schedule *(*https://www.csusb.edu/class-schedule*/)* for specific dates) students may withdraw from the university by following the registration instructions detailed in the academic term *Class Schedule* during the first four weeks of the Fall or Spring terms (i.e. from the first day of instruction through Census Date) and will have no record of enrollment listed on their permanent record. A pro-ration of fees may or may not be granted; however, a refund will not be granted if the withdrawal is beyond the refund deadline date. See the academic term *Class Schedule* for specific dates for each term, including Summer and the Winter Intersession.

Term Withdrawal after Census Date

Term Withdrawals after Census Date and through the end of the twelfth week of the term are permitted only for serious and compelling reasons. See the Summer academic term Class Schedule *(*https://www.csusb.edu/class-schedule*/)* for withdrawal dates during the summer and winter intersession terms. The student will be required to submit a petition through the Permission Request process within your myCoyote Student Center. Poor performance or poor attendance in the course(s) is not an acceptable reason to withdraw during this period. All courses officially withdrawn during this time period will show a grade notation of "W" (withdrawn) on the student's transcript for the dropped course(s). Students receiving a "W" are still subject to fees for the courses.

In certain circumstances, withdrawals after Census Date may qualify for an exemption to the 18 semester unit maximum. Such requests must meet the same standard and be processed in the same manner as described in the next section of this policy.

Withdrawal from all classes in weeks thirteen through the last day of instruction shall not be permitted except in cases, such as accident or serious illness, where the cause of withdrawal is due to circumstances clearly beyond the student's control and the assignment of an Incomplete is not practicable.

Requests for permission to withdraw in weeks thirteen through the last day of instruction must be made by petition through the Permission Request process within your myCoyote Student Center. Documentation to support the request to withdraw is required. These requests will be reviewed by the Director of Advising and Academic Services. If approved, such withdrawals will not count against the maximum 18 semester units from which students are allowed to withdraw.

Retroactive Term Withdrawal

Requests for retroactive term withdrawals shall be permitted for serious and compelling reasons, such as accident or serious illness, where the cause of withdrawal was due to circumstances clearly beyond the student's control and an Incomplete was not assigned. Extenuating circumstances must be shown to have prevented withdrawal in a more timely fashion. Documentation is required. Poor performance or poor attendance in the course(s) is not an acceptable reason to withdraw after the term. Employment-related reasons are also unacceptable. Lack of awareness of the withdrawal procedure is not an extenuating circumstance. All courses must be withdrawn and will be noted with a "W" on the permanent record. If approved, such withdrawals will not count against the 18 semester units from which students are allowed to withdraw.

Forms for Retroactive Term Withdrawal by undergraduates are available only in the office of the Director of Advising and Academic Services in UH-380. Partial withdrawal of classes during a term is not permissible unless special circumstances exist and the Dean of the student's major grants approval. Requests for Retroactive Term Withdrawal by unclassified postbaccalaureate students, credential candidates and graduate students must be made in writing to the Dean of Graduate Studies, CH-123.

Leave of Absence

Degree-seeking undergraduate students who plan to be absent from the university for more than one consecutive semester must file a leave of absence to preserve their current catalog rights (Title 5, Article 5, See. 40401). Contact the office of Academic Advising in University Hall, Room 329 for more information.

The leave of absence policy covers both involuntary and voluntary interruptions. In most instances, with an approved leave of absence, a student may be absent from the campus without losing rights to specific degree requirements under an earlier catalog.

Petitions for leaves of absence should be filed in advance of the interruption in enrollment. Each leave commences with the first regular semester of non-attendance. Requests for medical and military leaves may be considered retroactively if supported by individual circumstances, but those requests must be filed no later than Census Date of the second regular semester of non-attendance. Personal and planned educational leaves cannot be retroactive since they constitute an agreement or "contract" which must be set in advance. The maximum duration for any leave is two calendar years, although exceptions to the two-year limit may be granted under extenuating circumstances.

Leaves of absence will not be approved for students subject to disqualification or dismissal due to academic deficiencies or disciplinary action. Other students ineligible for leaves of absence are those who are not completing any degree applicable course work, those who are enrolling only in extension courses or those who are only auditing courses.

Students who do not return to CSU, San Bernardino at the conclusion of their planned leaves and those who enroll elsewhere without permission of the Office of the Registrar will be considered to have withdrawn from the university at the end of their last term of regular enrollment.

International students must submit a copy of the leave of absence petition to the Center for International Studies & Programs. Visa students must be registered as full-time students except when, after two consecutive semesters of regular enrollment, they decide to take a term off. All leave of absence periods must be approved by ISS prior to taking the leave in order to report the students properly to the Bureau of Citizenship and Immigration Services (BCIS). As a general rule, visa students must go back to their home country when applying for a leave of absence, as their primary goal in the U.S. is to obtain an academic degree.

The following Leaves of Absence may be requested:

Medical Leave of Absence

Requests must be accompanied by a statement from a medical doctor explaining why the student must interrupt enrollment. Exceptions to the two-year limit may be granted under extenuating circumstances.

Personal and Planned Educational Leaves of Absence

These leaves are defined as a planned interruption or pause in a student's regular education during which the student temporarily ceases formal studies at CSU, San Bernardino. The student must plan to return to CSU, San Bernardino at the end of the leave. Such activities may be for the purpose of clarifying or enriching educational goals or to allow time to address personal matters and thus enhance the prospect of successful completion of the student's academic program.

Since students on leave maintain their catalog rights, courses completed at other institutions must have received prior approval in order to be transferred back to CSU, San Bernardino. Therefore, a student must also file a concurrent enrollment form (https://www.csusb.edu/registrar/evaluations/concurrent-enrollment/) with the Office of the Registrar to obtain that approval. Failure to file a concurrent enrollment form may result in coursework not being accepted and revised GE and major requirements being required. Official transcripts must be submitted once coursework is completed.

Military Leave of Absence

Short term absences due to military obligation:

California State University, San Bernardino (CSUSB) supports students called to active duty in the U.S. Armed Forces. The policies and procedures described in this document apply to CSUSB students who are U.S. Armed Forces service members that are voluntarily or involuntarily called to active duty including service in the National Guard or Reserves. Short term absence due to military commitment pertains to those who will miss classes for their military service or necessitates withdrawal for a period not to exceed one semester (excluding summer).

For absences within the semester that do not result in a withdrawal from the semester:

Military service members who will miss classes for short-term military service or for training exercises are encouraged to contact their instructors as soon as they become aware of the need for the absence.

- Faculty members may request a copy of orders, letter from a commanding officer, etc.
- Faculty members are encouraged to make academic accommodations or opportunities for students to complete course assignments and/or exams when possible.

For absences that result in withdrawal from a semester and/or no enrollment for up to one semester (excluding summer):

Military service members who were absent from CSUSB for service in the Armed Forces are eligible to return to CSUSB based on the following provisions:

- Absence is due to active service in the Armed Forces, including the National Guard or Reserves, for more than 30 days.
- Students will maintain their program, enrollment and academic status.
- As provided for in the California Education Code 66023, CSUSB will refund fees paid by the student for the term in which he or she was called to active military service.

Based on federal regulations, institutions have the discretion to determine whether a student is prepared to return to his or her program with the same academic status at the point where the student left off, or will not be able to complete the program. CSUSB will make reasonable efforts at no extra cost to the student to help the student become prepared or to enable the student to complete the program with additional assistance such as providing refresher courses at no extra cost to the student and allowing the student to retake a pretest at no extra cost to the student.

Long term absences due to military obligation:

California State University, San Bernardino (CSUSB) supports students called to active duty in the U.S. Armed Forces by providing for tuition relief and refunds, and for reinstatement of students whose documented service in the uniformed services has required their sudden withdrawal or prolonged absence from their enrollment in the institution. Long term absence due to military commitment pertains to those who will miss classes for their military service or necessitates withdrawal for a period that extends more than one semester consecutively (excluding summer). Included is service in the uniformed services whether voluntary or involuntary on active duty in the Armed Forces, including such service by a member of the National Guard or Reserve. When a CSUSB student is under call or ordered to active duty for a period of more than one semester consecutively, the following provisions will apply.

As provided for in the Code of Federal Regulations (CFR) 34, 668.18, California Education Code 66023 and the Federal Register CFR 34, section 668.18, students who leave CSUSB to serve in the Armed Forces of the United States will be promptly readmitted to the same program with the same enrollment and academic status.

Military service members and veterans who were absent from CSUSB for service in the Armed Forces are eligible to return to CSUSB based on the following provisions:

- Absence is due to active duty service in the Armed Forces, including the National Guard or Reserves, for more than 30 days.
- The service member or veteran provides CSUSB Advising & Academic Services with either:
  - Advance notice that the need for a leave of absence is due to military service
    - Students will be asked to submit the Leave of Absence Form (https://live-csusb.pantheonsite.io/sites/default/files/upload/file/Leave%20of%20Absence%205-30-2017.pdf). Or,
  - Documentation that the absence was due to service in the Armed Forces, which the student may provide at the time of return.*
    - Examples of such documentation include a DD214, a copy of orders, etc.
- The service member or veteran notifies the CSUSB Office of the Registrar of the intent to re-enroll within 3 years of completion of military service. A student who is injured during or becomes ill as a consequence of military service must submit his/her intent to re-enroll no later than 2 years after the end of the period that is necessary for recovery from such illness or injury.
  - Students will be required to notify CSUSB of intent to return.
- The cumulative length of all absences for service in the Armed Forces may not exceed five years. This period includes only the time spent actually performing service, not the period before reporting for duty and the time between completing service and returning to the institution.
- Students will return to the same academic program with the same enrollment and academic status as when the absence began. Students will return to the next class or classes in their program after they provide notice of their intent to re-enroll.
- Eligibility of readmission is terminated upon any of the following circumstances:
  - Dishonorable or bad conduct discharge from the Armed Forces.
  - Dismissal as permitted under section 1161(a) of title 10, United States Code.
  - Drop from the rolls pursuant to section 1161(b) of title 10, United States Code.

A service member or veteran who does not meet these criteria is subject to current CSUSB admissions requirements and may apply for readmission by submitting the Cal State Apply application and application fee during the CSU admissions period.

As provided for in the California Education Code 66023, CSUSB will refund fees paid by the student for the term in which he or she was called to active military service.

Based on federal regulations, institutions have the discretion to determine whether a student is prepared to return to his or her program with the same academic status at the point where the student left off, or will not be able to complete the program. CSUSB will make reasonable efforts at no extra cost to the student to help the student become prepared or to enable the student to complete the program with additional assistance such as providing refresher courses at no extra cost to the student and allowing the student to retake a pretest at no extra cost to the student.

*Students who are unable to provide documentation due to military necessity (for example, because of a classified mission, operation or exercise) may sign a statement attesting that the absence was due to military service.

Returning from Approved Leave of Absence

When students plan to return from their leave earlier than requested, a readmission form, available through the Office of the Registrar must be submitted within the filing period for the semester of return. Visit Leave of Absence (https://www.csusb.edu/registrar/records/leave-absence/) for more information on submitting a Return from Leave of Absence.

Nothing is needed to be done if returning the term that was approved. No application fee will be assessed for leaves of absence that meet the terms of the leave agreement. If a student was on an approved educational leave, official transcripts are required.

Final Examinations

Written examinations of two hours duration are held at the close of each term. In courses extending over more than one term, the examination in the concluding term may also cover work done in the preceding term or terms. Examinations may not be taken before or after the scheduled period nor may the time of an examination be changed without authorization by the dean of the appropriate college. Permission to take a final examination with a different section in the same course may be granted by the dean of the appropriate college with the consent of the instructors concerned. Failure to take or to pass any final or other course examinations will result in such deficiencies as instructors may assign.

Final Grade

Final grades will be available to students within two weeks after the last day of each term. Grades are accessed through myCoyote Self Service.

Student Academic Grievance Procedures

A student may appeal a final course grade or a grade on a Comprehensive Examination or a project (e.g., art exhibition) or thesis required for graduation. An appeal may be initiated when a student believes there has been any of the following:

1. Clerical error
2. Capricious or prejudicial evaluation
3. Inconsistent or inequitably applied standards for evaluation

Students may also appeal to other types of academic decisions. These include, but are not limited to:

1. Denial of admission to or dismissal from a course, major, or program
2. Placement on Academic Probation
3. Suspension or dismissal from the university

Every effort should be made to settle the disagreement informally. This document is not intended to limit a student, faculty member, or department from resolving a problem in any informal way they find satisfactory. However; the college-level appeal procedures outlined in Section 2 must be exhausted before a student may initiate the University-level procedures described in Section 3.

The Student Academic Grievance Procedures are available through the Faculty Senate FAM 800-875: Teaching / Research / Students (https://www.csusb.edu/faculty-senate/fam/800-875-teaching-research-students/).

Please contact the Dean's Office of the College of the course, major, or program. Please contact the AVP Office of Academic Success & Undergraduate Advising for university-level inquiries in University Hall, Room 352.

Grades

The grade symbols used at the university are as follows:

Grade symbol	Performance level	Grade points per term hour
A	Excellent	4.0
A-		3.7
B+		3.3
B	Good	3.0
B-		2.7
C+		2.3
C	Satisfactory	2.0
C-		1.7
D+		1.3
D	Passing	1.0
D-		.7
F	Failing	.0
WU	Withdrawal Unauthorized	.0
U	Unauthorized Incomplete	.0
I	Incomplete Authorized	.0
IC	Incomplete Charged	.0
RP	Report in Progress	
SP	Satisfactory Progress	
CR	Credit	
NC	No Credit	
CBE	Credit by Exam	
CBX	Credit by Exam (Remedial Course)	
AU	Audit	
RD	Report Delayed	
W	Withdrawn	
WF	Withdrawn Failing	.0
FW	Failed, Withdrew	.0
UW	Unofficial Withdrawl	.0

All courses, except those specifically designated otherwise, will be graded on the A through F basis.

Grade point averages are computed by dividing the number of grade points earned by the number of units attempted. Only units and grade points earned by a student while enrolled at this university are used to compute the resident grade point average. Grades from courses numbered 1-99 are not computed in this average.

The following administrative grades carry no grade points and are, therefore, not used to determine a student's grade point average. However, it should be pointed out that the Incomplete will be changed to an "IC" (incomplete charged) and calculated as an "F" if not removed within one calendar year from the date it was assigned, unless the instructor assigned an earlier completion date on the Incomplete form.

CBE	Credit by Examination
CBX	Credit by Examination/Remediation
CR	Credit
I	Incomplete (Authorized)
NC	No Credit
RD	Report Delayed
RP	Report in Progress
SP	Satisfactory Progress
W	Withdrawal

Expanded Grade Symbol Definitions

A (Excellent): Meeting course requirements with a superior level of performance. A is recognized to be an honors evaluation.

B (Good): Meeting course requirements with a high level of performance.

C (Satisfactory): Meeting course requirements with an acceptable performance.

D (Passing): Meeting course requirements with minimally adequate performance.

F (Failing): Inadequate performance or not meeting course requirements.

CR (Credit): A satisfactory or better level of performance, equivalent to the grade of "C" (2.0) or better, has been demonstrated in meeting course objective. For graduate courses, equivalent to grade of "B" (3.0) or better.

NC (No Credit): Performance at an unsatisfactory or failing level, equivalent to a grade of "C-" (1.7) or less. For graduate courses, equivalent to a grade of less than "B-" (2.7). Does not award credit for the course or affect grade point average.

CBE (Credit by Exam): This symbol indicates that a student has successfully passed a course through an examination. Awards units earned toward degree. It is not included in the calculation of grade point averages.

CBX (Credit by Exam/Remediation): This symbol indicates that a student has successfully passed a remedial course through an examination. Does not award units earned toward a degree. It is not included in the calculation of grade point average.

I (Incomplete): An Incomplete signifies that a portion of required course work has not been completed and evaluated in the prescribed time period due to unforeseen, but fully justified reasons and that there is still a possibility of earning credit. It is the responsibility of the student to bring pertinent information to the instructor and to reach agreement on the means by which the remaining course requirements will be satisfied. A final grade is assigned when the work agreed upon has been completed and evaluated. Students may not re-enroll in a course for which they have received an "I" until that "I" has been converted to a grade other than "I", e.g., C- through F, IC, or NC.

An Incomplete must be made up within one calendar year immediately following the end of the term in which it was assigned or before graduation unless the instructor assigned an earlier completion date on the Incomplete Grade Agreement. This limitation prevails whether or not the student maintains continuous enrollment. Failure to complete the assigned work will result in an Incomplete being converted to an IC (or an NC if applicable) for grade point average computation, unless a specific grade was assigned on the Incomplete Grade Agreement. Note: In some instances the instructor may have indicated on the Incomplete Grade Agreement a grade to be assigned in the eventuality that the remaining course work is not completed.

Students may not receive an "I" grade in any applicable degree course for the term in which their graduation check is filed. Their graduation check will moved to the term in which the outstanding requirements are fulfilled. An Incomplete in a course not required for the degree must have a final grade assigned at the time of graduation, or the Incomplete will convert to an "IC" (or an "NC" if applicable). At the time of graduation, no Incompletes may remain on a student's record.

IC (Incomplete Charged): The IC symbol is used when a student who received an authorized incomplete "I" has not completed the required course work within the allowed time limit. The "IC" replaces the "I" and is counted as a failing grade for grade point average and progress point computation.

RD (Report Delayed): The RD symbol is used in those cases where a delay in the reporting of a grade is due to circumstances beyond the control of the student. The symbol is assigned by the Office of the Registrar and is replaced by a more appropriate grading symbol as soon as possible. An RD is not included in the calculation of grade point averages.

RP (Report in Progress): The RP symbol (previously "SP") is used in connection with courses that extend beyond one academic term. It indicates work is in progress but that assignment of a final grade must await completion of additional work. Work is to be completed within one year except for graduate degree theses.

Students may not receive an "RP" grade in any applicable degree course for the term in which their graduation check is filed. Their graduation check will moved to the term in which the outstanding requirements are fulfilled. A Report in Progress in a course not required for the degree must have a final grade assigned at the time of graduation, or the "RP" will convert to an "F" (or an "NC" if applicable). At the time of graduation, no Reports in Progress may remain on a student's record.

W (Withdrawal): The symbol W indicates that the student was permitted to withdraw from the course after the 20th day of instruction with approval of the instructor and appropriate campus officials. It carries no connotation of quality of performance and is not used in calculating grade point average. For withdrawal limits, see the class schedule or Academic Advising website (https://www.csusb.edu/advising/). Students who have withdrawn from the maximum 18 semester units allowed will be assigned a "WU" grade for any subsequent withdrawals.

WU (Withdrawal Unauthorized): The symbol WU (previously "U") indicates that an enrolled student did not withdraw from the course and also failed to complete course requirements. It is used when, in the opinion of the instructor, completed assignments or course activities or both were insufficient to make normal evaluation of academic performance possible. A grade of WU will also be assigned to students who have withdrawn from the maximum of 18 allowed semester units. For purposes of grade point average and progress point computation this symbol is equivalent to an "F."

Policy on Nontraditional Grading

All courses are graded on an A through F basis, except those specifically designated as follows:

Credit/No credit

Credit is awarded for grades equivalent to C (2.0) or better. For graduate level courses, credit is awarded for grades equivalent to a grade of B (3.0) or better. No credit is awarded for grades equivalent to C- or less. For graduate level courses, no credit is awarded for grades equivalent to B- or less.

ABC/No credit

Grades awarded are A, A-, B+, B, B-, C+ or C. No credit is awarded for grades equivalent to "C-" or less.

Certain activity courses, independent study projects, and other courses serving special needs are not readily evaluated in the traditional A through F manner. The non-traditional credit/no credit grading allows faculty to

award credit for satisfactory performance in an activity, rather than assign a letter grade when such performance cannot be evaluated traditionally.

Courses graded credit/no credit, whether taken at this or at another institution, may not be used to satisfy requirements for the major, except specific courses designated by the department to be graded credit/no credit.

Students who, because of a change of major or because of transfer from another institution or for any other reason, present courses in the major field which have been graded on a credit/no credit basis may, at the discretion of the department or other appropriate academic unit, be required to pass competency examinations at an acceptable level or to take prescribed alternate courses before being allowed to continue in the major.

A student may offer no more than 24 semester units of work graded credit/no credit in satisfaction of the total units required in the student's baccalaureate degree program at California State University, San Bernardino. This number includes any combination of units graded credit/no credit earned at California State University, San Bernardino and any other institution or institutions, excepting that all units accepted for transfer credit from another institution at the time of the student's admission to the university may be used toward the satisfaction of the total units required for the baccalaureate degree. Acceptance for transfer credit by California State University, San Bernardino of 24 semester units or more graded credit/no credit at another institution or institutions precludes the student from taking courses graded credit/no credit at California State University, San Bernardino, for satisfaction of units required for the baccalaureate degree.

Course grades of credit received under a credit-by-examination program are exempt from the 24 semester unit limitation.

Retention, Academic Probation and Disqualification

For purposes of determining a student's eligibility to remain at the university, quality of academic performance toward the student's objective shall be considered. Such eligibility shall be determined by the use of grade point average. Also see the Student Conduct Code for other regulations governing expulsion, suspension, and probation. This policy is in effect beginning Spring 2009 following the Minimum Requirements for Probation and Disqualification established by Executive Order No. 1038.

Academic Probation

An undergraduate student is subject to academic probation if at any time the cumulative grade point average in all college work attempted or the cumulative grade point average at California State University, San Bernardino falls below 2.0 (Title 5, California Code of Regulations, Section 41300 (a)). The student shall be advised of probation status promptly.

An undergraduate student shall be removed from academic probation when the cumulative grade point average in all college work attempted and the cumulative grade point average at California State University, San Bernardino is 2.0 or higher.

Academic Disqualification

An undergraduate student on academic probation is subject to academic disqualification (as authorized by Section 41300 (b) of Title 5) when:

1. As a freshman (fewer than 30 semester units of college work completed) the student falls below a grade point average of 1.50 in all units attempted or in all units attempted at the campus where enrolled.
2. As a sophomore (30 through 59.9 semester units of college work completed) the student falls below a grade point average of 1.70 in all units attempted or in all units attempted at the campus where enrolled.
3. As a junior (60 through 89.9 semester units of college work completed) the student falls below a grade point average of 1.85 in all units attempted or in all units attempted at the campus where enrolled.
4. As a senior (90 or more semester units of college work completed) the student falls below a grade point average of 1.95 in all units attempted or in all units attempted at the campus where enrolled.

The President (as authorized by Section 41300 (c) of Title 5) has designated the Director of Academic Advising to act to disqualify an individual when the following circumstance exists:

1. At the end of any term, the student has a cumulative grade point average below 1.0, and
2. The cumulative grade point average is so low that in view of the student's overall educational record, it seems unlikely that the deficiency will be removed within a reasonable period, as defined by campus academic policy.

Notice of Disqualification

Students who are disqualified from further attendance at the end of any term under any of the provisions of this policy should be notified before the beginning of the next consecutive regular semester. Students disqualified from further attendance at the beginning of a summer enrollment break should be notified at least one month before the start of the fall term. In cases where a student ordinarily would be disqualified from further attendance at the end of a term, save for the fact that it is not possible to make timely notification, the student may be advised that the disqualification is to be effective at the end of the next term. Such notification should include any conditions which, if met, would result in permission to continue in enrollment. Failure to notify students does not create the right of a student to continue enrollment.

Probation and Disqualification

Probation and Disqualification of postbaccalaureate and graduate students are subject to Section 41300 (d), (e), and (f) of Title 5 and criteria established by the Office of Graduate Studies. See Standards for Graduate Study (http://bulletin.csusb.edu/graduate-degree-programs/graduate-degree-program-requirements/).

Administrative-Academic Probation

An undergraduate or graduate student may be placed on administrative-academic probation by action of appropriate campus officials (as authorized by Section 41300.1 of Title 5) for any of the following reasons:

1. Withdrawal from all or a substantial portion of a program of studies in two successive terms or in any three terms. (Note: A student whose withdrawal is directly associated with a chronic or recurring medical condition or its treatment is not to be subject to Administrative-Academic probation for such withdrawal.)
2. Repeated failure to progress toward the stated degree objective or other program objective, including that resulting from assignment of 15 units with grades of NC, when such failure appears to be due to circumstances within the control of the student.

3. Failure to comply, after due notice, with an academic requirement or regulation, as defined by campus policy, which is routine for all students or a defined group of students (examples: failure to complete a required CSU or campus examination, failure to complete a required practicum, failure to comply with professional standards appropriate to the field of study, failure to complete a specified number of units as a condition for receiving student financial aid or making satisfactory progress in the academic program).

When such action is taken, the student shall be notified in writing and shall be provided with the conditions for removal from probation and the circumstances that would lead to disqualification, should probation not be removed.

Administrative-Academic Disqualification

A student who has been placed on administrative-academic probation may be disqualified from further attendance (as authorized by Section 41300.1 of Title 5) if:

1. The conditions for removal of administrative-academic probation are not met within the period specified.
2. The student becomes subject to academic probation while on administrative-academic probation.
3. The student becomes subject to administrative-academic probation for the same or similar reason for which he has been placed on administrative-academic probation previously, although not currently in such status.

When such action is taken, the student shall receive written notification including an explanation of the basis for the action.

Administrative Contract Appeal and Readmission Process

An undergraduate student placed on academic probation may be required to meet with an academic advisor in the office of Academic Advising. Failure to meet with an academic advisor or meet the Administrative Contract's terms will result in a registration hold that prevents future enrollment. An undergraduate student on academic probation may appeal this action by contacting the Director of Academic Advising.

An undergraduate student subject to disqualification will not be permitted to enroll in any regular term and may be denied admission to other educational programs operated or sponsored by the university. The student must contact the office of Academic Advising at (909) 537-7345 in order to receive the guidelines to petition for readmission.

Repeat of Courses: Undergraduate Students

Undergraduate students may only repeat courses if they earned grades lower than a "C." This policy applies to any grade earned at CSUSB at any time. A maximum of 12 semester units may be repeated for grade forgiveness. An additional 12 semester units may be repeated with both grades averaged into the grade point average calculation. Students are allowed a maximum of two attempts per course (1 original and 1 repeat). Permission to enroll for the third attempt requires approval of Academic Success and Undergraduate Advising. Repeated courses are generally enrolled during the Open Enrollment period, assuming space is available in the course.

Course Repeats with Grade Forgiveness

Grade forgiveness (discounting a grade) follows the current grade forgiveness campus process, with the grade of the last course completed being used for GPA calculations, up to the 12 semester units. Students are allowed a maximum of two attempts per course (1 original and 1 repeat). Permission to enroll for the third attempt requires approval of Academic Success and Undergraduate Advising. Repeated courses may only be enrolled during the Open Enrollment period, assuming space is available in the course. Grade forgiveness is not applicable for courses where the original grade was the result of academic dishonesty. Students are strongly encouraged to speak with an advisor before repeating a course for grade forgiveness to ensure that the student is eligible to repeat that course to discount the grade.

1. Grade forgiveness (or discounting), as used in these guidelines, means that when computing grade point averages required for graduation with a baccalaureate degree, "units attempted," "units passed," and "grade points" for the first attempt shall be excluded. The first attempt will remain on the transcript with the repeat (discount) noted. Course repeats with discounting or "grade forgiveness" are permissible for undergraduate students subject to the following provisions:
   a. Undergraduate students may repeat a maximum of 12 semester units with grade forgiveness. This maximum includes any repeats taken at any time at CSUSB.
   b. Undergraduate students may repeat an individual course for grade forgiveness only one time. In other words, if a student earns a grade of "C-" or lower in a first attempt at a class, the student may repeat that class to replace the grade. No subsequent attempts will be allowed.
   c. Grade forgiveness shall not be applicable to courses for which the original grade was the result of academic dishonesty.

Course Repeats with Grades Averaged

1. Undergraduate students may repeat an additional 12 semester units in which the repeated grade will be averaged with the most recent grade provided the original grade was lower than a "C." These units are in addition to the 12 semester units described above for which grade forgiveness is permitted. In such instances the repeat grade shall not replace the original grade. Units earned will be removed from the first attempt, and both grades shall be calculated into the student's overall grade point average.
2. A course may not be repeated for the purpose of removing an Incomplete. Incompletes that have changed to an "IC" or a letter grade lower than a "C" may be discounted on repeat.
3. If a course which was taken at CSUSB is repeated elsewhere, the grades will be averaged in determining a student's overall grade point average. Repeating a course elsewhere will not affect a student's CSUSB grade point average but will affect the cumulative GPA. Units earned will be removed from the first attempt.
4. Grades for courses taken at one institution (other than CSUSB) and repeated at another institution (other than CSUSB) will be averaged when determining a student's cumulative transfer grade point average. Units earned will be removed from the first attempt.
5. Grades for courses taken at one institution (other than CSUSB) and repeated at CSUSB will be averaged when determining a student's cumulative grade point average. Units earned will be removed from the first attempt.
6. For transfer work, CSUSB will honor the repeat-of-course policy in effect at the institution issuing the transfer transcript.

7. Courses taken for undergraduate credit may not be repeated for discount as a postbaccalaureate student.
8. Unclassified postbaccalaureate students may be permitted to repeat a course taken as an undergraduate. However, the grade earned shall not replace the grade in the undergraduate record.
9. Credit by Examination (CBE) may not be used to discount a course taken previously.
10. Students on approved Leaves of Absence or dismissal may repeat a course through the College of Extended and Global Education's Open University program in order to improve their CSUSB grade point average and petition for grade forgiveness. To take advantage of this provision, the student must first have a Leave of Absence approved by the Office of Advising and Academic Services. Once that is approved, the student must petition to repeat a course with a grade of "C" or better. If that is approved, the student can file a petition for grade forgiveness once the final grade has been posted. These shall count toward the maximum of 12 semester units that can be repeated for grade forgiveness.

Students taking classes during non-state supported summer sessions may also repeat a course in order to improve their CSUSB grade point average and petition for grade forgiveness. If the petition is approved, it will count toward the 12 semester unit maximum allowed for grade forgiveness and toward the 24 semester unit maximum of units applied from Open University. Simultaneous regular enrollment and enrollment through Open University is not permitted.

Contact Advising and Academic Services, UH-380, (909) 537-5034, for questions regarding repeating courses.

Petitions for waivers of this university regulation will only be considered in exceptional cases. Petitions must be made in writing to the Associate Vice President and Dean of Academic Success and Undergraduate Advising.

The foregoing provisions apply only to undergraduate students. Postbaccalaureate and graduate students must report to the Office of Graduate Studies to submit a petition for discounting. Regulations for repeating graduate courses can be found under Graduate Degree and Program Requirements (p. 74).

Academic Renewal

Under certain circumstances, a student may petition to have up to two terms of previous coursework disregarded from all considerations associated with requirements for the baccalaureate degree. In order for this to happen the following conditions must be met:

1. The work to be disregarded must have been completed at least five years before the date of the petition to disregard it.
2. The student has completed all General Education, major and elective requirements with the exception of the cumulative and/or CSUSB grade point average of 2.0. The student must demonstrate that it would be necessary to complete additional units and enroll for one or more additional terms in order to qualify for the baccalaureate if the request were not approved.
3. During the interval since completing the work to be disregarded, the student must have maintained a satisfactory record at CSUSB (15 semester units with at least a 3.0 grade point average; 30 semester units with at least a 2.5 grade point average; or 45 semester units with at least a 2.0 grade point average).

The approval would allow the student to be in good academic standing. Students seeking academic renewal should consult with the Director of Academic Advising in University Hall, Room 329.

Student Conduct

Title 5, California Code of Regulations, § 41301. Standards for Student Conduct

University Community Values

The university is committed to maintaining a safe and healthy living and learning environment for students, faculty, and staff. Each member of the university community should choose behaviors that contribute toward this end. Students are expected to be good citizens and to engage in responsible behaviors that reflect well upon their university, to be civil to one another and to others in the university community and contribute positively to student and university life.

Grounds for Student Discipline

Student behavior that is not consistent with the Student Conduct Code is addressed through an educational process that is designed to promote safety and good citizenship and, when necessary, impose appropriate consequences.

The following are the grounds upon which student discipline can be based:

1. Dishonesty, including:
   a. Cheating, plagiarism, or other forms of academic dishonesty that are intended to gain unfair academic advantage.
   b. Furnishing false information to a university official, faculty member, or university office.
   c. Forgery, alteration, or misuse of a university document, key, or identification instrument.
   d. Misrepresenting one's self to be an authorized agent of the university or one of its auxiliaries.
2. Unauthorized entry into, presence in, use of, or misuse of university property.
3. Willful, material and substantial disruption or obstruction of a university-related activity, or any on-campus activity
4. Participating in an activity that substantially and materially disrupts the normal operations of the University, or infringes on the rights of members of the University community.
5. Willful, material and substantial obstruction of the free flow of pedestrians or other traffic, on or leading to campus property or an off-campus University related activity.
6. Disorderly, lewd, indecent, or obscene behavior at a university related activity, or directed toward a member of the University community.
7. Conduct that threatens or endangers the health or safety of any person within or related to the university community, including physical abuse, threats, intimidation, harassment, or sexual
   a. misconduct.
8. Hazing or conspiracy to haze. Hazing is defined as any method of initiation or pre- initiation into a student organization or student body, whether or not the organization or body is officially recognized by an educational institution, which is likely to cause serious bodily injury to any former, current, or prospective student of any school, community college, college, university or other educational institution in this state (Penal Code 245.6), and in addition, any act likely to cause physical harm, personal degradation or disgrace resulting in physical or mental

harm, to any former, current, or prospective student of any school, community college, college, university or other educational institution. The term "hazing" does not include customary athletic events or school sanctioned events. Neither the express or implied consent of a victim of hazing, nor the lack of active participation in a particular hazing incident is a defense. Apathy or acquiescence in the presence of hazing is not a neutral act and is also a violation of this section.

9. Use, possession, manufacture, or distribution of illegal drugs or drug-related paraphernalia, (except as expressly permitted by law and university regulations) or the misuse of legal pharmaceutical drugs.
10. Use, possession, manufacture, or distribution of alcoholic beverages (except as expressly permitted by law and university regulations), or public intoxication while on campus or at a university related activity.
11. Theft of property or services from the university community, or misappropriation of university resources.
12. Unauthorized destruction or damage to university property or other property in the university community.
13. Possession or misuse of firearms or guns, replicas, ammunition, explosives, fireworks, knives, other weapons, or dangerous chemicals (without the prior authorization of the university president) on campus or at a university related activity.
14. Unauthorized recording, dissemination, or publication of academic presentations (including handwritten notes) for a commercial purpose.
15. Misuse of computer facilities or resources, including:
    a. Unauthorized entry into a file, for any purpose.
    b. Unauthorized transfer of a file.
    c. Use of another's identification or password.
    d. Use of computing facilities, campus network, or other resources to interfere with the work of another member of the University Community.
    e. Use of computing facilities and resources to send obscene or intimidating and abusive messages.
    f. Use of computing facilities and resources to interfere with normal university operations.
    g. Use of computing facilities and resources in violation of copyright laws.
    h. Violation of a university computer use policy.
16. Violation of any published university policy, rule, regulation or presidential order.
17. Failure to comply with directions or, or interference with, any university official or any public safety officer while acting in the performance of their duties.
18. Any act chargeable as a violation of a federal, state, or local law that poses a substantial threat to the safety or well-being of members of the university community, to property within the university community or poses a significant threat of disruption or interference with university operations.
19. Violation of the Student Conduct Procedures, including:
    a. Falsification distortion, or misrepresentation of information related to a student discipline matter.
    b. Disruption or interference with the orderly progress of a student discipline proceeding.
    c. Initiation of a student discipline proceeding in bad faith.
    d. Attempting to discourage another from participating in the student discipline matter.
    e. Attempting to influence the impartiality of any participant in a student discipline matter.
    f. Verbal or physical harassment or intimidation of any participant in a student discipline matte
    g. Failure to comply with the sanction(s) imposed under a student discipline proceeding.
20. Encouraging, permitting, or assisting another to do any act that could subject him or her to discipline.

Procedures for Enforcing This Code

The chancellor shall adopt procedures to ensure students are afforded appropriate notice and an opportunity to be heard before the university imposes any sanction for a violation of the Student Conduct Code (https://calstate.policystat.com/policy/8453518/latest/). [Note: At the time of publication, such procedures are set forth in the California State University Student Conduct Procedures Policy (https://calstate.policystat.com/policy/8453518/latest/) (Revised October 6, 2023).

Application of This Code

Sanctions for the conduct listed above can be imposed on applicants, enrolled students, students between academic terms, graduates awaiting degrees, and students who withdraw from school while a disciplinary matter is pending. Conduct that threatens the safety or security of the university community, or substantially disrupts the functions or operation of the university is within the jurisdiction of this Article regardless of whether it occurs on or off campus. Nothing in this Code may conflict with Education Code Section 66301 that prohibits disciplinary action against students based on behavior protected by the First Amendment.

Title 5, California Code of Regulations, § 41302. Disposition of Fees: University Emergency; Interim Suspension.

The president of the university may place on probation, suspend, or expel a student for one or more of the causes enumerated in Section 41301. No fees or tuition paid by or for such student for the semester, quarter, or summer session in which the student is suspended or expelled shall be refunded. If the student is readmitted before the close of the semester, quarter, or summer session in which the student is suspended, no additional tuition or fees shall be required of the student on account of the suspension.

During periods of emergency, as determined by the president of the individual university, the president may, after consultation with the chancellor, place into immediate effect any emergency regulations, procedures, and other measures deemed necessary or appropriate to meet the emergency, safeguard persons and property, and maintain educational activities.

The president may immediately impose an interim suspension in all cases in which there is reasonable cause to believe that such an immediate suspension is required in order to protect lives or property and to insure the maintenance of order. A student so placed on interim suspension shall be given prompt notice of charges and the opportunity for a hearing within 10 days of the imposition of interim suspension. During the period of interim suspension, the student shall not, without prior written permission of the president or designated representative, enter any of the CSUs other than to attend the hearing. Violation of any condition of interim suspension shall be grounds for expulsion.

Declaring (or Changing) a Major

Work in a major field of study is designed to afford students the opportunity to engage in intensive study of a discipline. Because there

is a strong correlation between having a declared major and persistence at the university, all students are strongly encouraged to declare a major as quickly as possible. Students may declare a major at the time of admission. For some students, there may be a period of time early in their academic careers when they are unsure of the course of study they wish to pursue, and those students may take longer to declare a major. All CSUSB students with fewer than 45 semester units must declare a major by the time they achieve junior class status (60 semester units). Students transferring to CSUSB with 45 or more semester units are strongly encouraged to declare a major when they matriculate. Students are permitted to declare one major and one minor prior to reaching junior status.

In order to declare or change a major, students should submit an online Change of Major via myCoyote Student Center. Before submitting the Change of Major, students should contact an advisor in the new major for advising. Students who declare a major or change from one major to another following admission will be held to either:

1. The current catalog for requirements of the major and to the catalog under which they entered for other college requirements (for example, general education), or
2. The catalog in effect at the time of graduation for all requirements.

Note: Dual concentrations within the same major will require approval from the Department Chair.

Students who are applying to an impacted major must complete the Application for Impacted Majors (http://registrar.csusb.edu/misc/documents/ApplicationforImpactedMajors2015.pdf) form. Impacted majors are noted in the Bulletin of Courses. A complete list is also posted in the Office of the Registrar.

A processing fee will be assessed each time a student files a Change of Major/Minor. (See *Class Schedule* for fee.)

Required Declaration of a major

A non-transfer CSUSB student who has not declared a major will receive a notice from the office of Advising and Academic Services when the student has 45 semester units (this will include work-in-progress). The notice will require that the student come into the office of Advising and Academic Services and meet with an advisor to talk about selecting a major. A registration service indicator hold will be placed on the student's file, and the student will not be allowed to register for a subsequent term until they have come in for that appointment. Advising regarding the selection of a major will be the focus of that appointment leading to referral to an academic department or, in some cases, to the Career Development Center. A student who does not declare a major by the time they have completed 60 semester units will not be allowed to register without the approval of the Director of Advising and Academic Services.

The procedure for transfer students will depend on the total number of units CSUSB counts toward the student's degree. Students who receive credit for fewer than 45 semester units will be held to the same timeline for declaring a major as students who began at CSUSB as first-time freshmen. Students who come in with 45 or more semester units will be required to declare a major after they have completed 15 semester units at CSUSB. If a major is not declared at admission, the transfer student will receive a notice from the Office of Advising and Academic Services. The notice will require that the student come into the office of Advising and Academic Services and meet with an advisor to talk about selecting a major. A registration hold will be placed on the student's file, and the student will not be allowed to register for a subsequent term until he or she has come in for that appointment. Counseling regarding the selection of a major will be the focus of that appointment leading to a referral to an academic department or, in some cases, to the Career Development Center. If a major is not declared by the completion of 15 semester units at CSUSB, a transfer student held to this policy will not be allowed to register without the approval of the Director of Advising and Academic Services.

Election of Graduation Requirements

A student remaining in continuous attendance in regular sessions and continuing in the same major in this university, in any of the California community colleges, or in any combination of California community colleges and campuses of the California State University, may, for purposes of meeting graduation requirements, elect to meet the graduation requirements in effect at this university either at the time of entering the program or at the time of graduation from this university, except that substitutions for discontinued courses may be authorized or required by the proper university authorities. (See the section on Leave of Absence.)

University Honors

University Honors for graduation

To be considered for University Honors for graduation, an undergraduate student must have completed a minimum of 30 semester units of work at CSUSB in courses for which letter grades (A, B, C and D) were received. University Honors for commencement are based on the student's units and GPA through the end of the term prior to commencement (i.e. fall for spring commencement and summer for fall commencement).

- *Summa Cum Laude*: an overall cumulative undergraduate grade point average of 3.9 or above and a grade point average of 3.9 or above in all work attempted at this university.
- *Magna Cum Laude*: an overall cumulative undergraduate grade point average of 3.75 or above and a grade point average of 3.75 or above in all work attempted at this university.
- *Cum Laude*: an overall cumulative undergraduate grade point average of 3.5 or above and a grade point average of 3.5 or above in all work attempted at this university.

In determining eligibility for graduation with University Honors with a second bachelor's degree, all baccalaureate-level coursework completed past high school will be used in the GPA calculation.

Dean's List

An undergraduate student completing 12 or more semester units for which letter grades (A, B, C and D) were received, and who earns a 3.5 or above in any regular academic term will be placed on a Dean's List.

- *Dean's Letter of Recognition*. Any full-time undergraduate student, meeting the above requirements, who earns a 4.0 in any regular academic term will receive a letter of special recognition from the appropriate dean.
- *Presidential Letter of Recognition*. Any full-time undergraduate student, meeting the above requirements, who earns a 4.0 in two consecutive regular academic terms will receive a letter of special recognition from the president of the university.

Departmental Honors

Individual departments may award departmental honors at graduation, recognizing distinguished students majoring in that field. The

requirements to be met to earn honors are specified by the respective departments. Departmental honors are currently awarded in accounting and finance, anthropology, Arabic, art, biology, chemistry, communication, computer engineering, computer science, criminal justice, economics, English, environmental studies, French, geography, geology, health science, history, human development, human services, information and decision sciences, kinesiology, liberal studies, management, marketing, mathematics, music, nursing, philosophy, physics, political science, psychology, public administration, sociology and Spanish.

University Initiated Graduation Requirement Check and Graduation Requirement Check

Undergraduates

A University Initiated Graduation Requirement Check (UIGC) will be filed on behalf of undergraduate students when they have completed 90 semester units towards their degree. Students pursuing a blended degree (such as the BA/MSA in Accountancy) must submit a paper Grad Check form to the Office of the Registrar in UH-171 or by email to graduationinfo@csusb.edu.

Undergraduate students who do not complete the requirements in the term for which the Grad Check was filed, will automatically be re-filed for the next appropriate term.

Graduates

Graduate students who have been advanced to candidacy must request a Grad Check at least one term prior to their expected graduation via their myCoyote Student Center. Graduate students who do not complete the requirements in the term for which the Grad Check was filed must re-file for the next appropriate term in which all degree requirements will be completed through their myCoyote Student Center.

Re-filing and Commencement

No fee will be charged to re-file unless a major/concentration or minor is added after the initial filing. Access to registration in subsequent terms will not be allowed until the Grad Check has been re-filed. Refer to the Office of the Registrar's website for more information on Grad Check fees (https://www.csusb.edu/registrar/evaluations/graduation-requirement-check/). Please note, participation in commencement activities is voluntary. For dates and deadlines please visit commencement.csusb.edu (http://commencement.csusb.edu/).

Degree Completion and Conferral Date

The degree conferral date is the last day of final exams for that term. All coursework must be fully completed by the conferral date in order for graduation to be processed for that term. If a student is scheduled to graduate in a particular term but has coursework with a completion date that is after the conferral date, the student’s graduation must be processed for a subsequent term.

Conferral of Degree Upon Completion of Requirements

The CSU Chancellor has authorized campus presidents to confer degrees upon students as soon as they have completed all degree requirements. To ensure that students do not take unnecessary units beyond those required for the degree, the Office of the Registrar will monitor progress toward the degree based, in part, on units completed. Particular attention will be paid to those students who have completed 120% of the units required for a degree. If it is determined that a student has completed all requirements for a degree and has not filed a graduation check, the student will be notified by the Office of the Registrar that appropriate fees will be assessed and the degree will be conferred.

Students may petition the Associate Vice President and Dean of Academic Success and Undergraduate Advising to delay conferral of the degree. Such petitions must be filed within two weeks of receipt of the notice referred to above. Such petitions will only be considered when there is a compelling academic reason to allow the student additional time. Petitions will not be granted for additional time to improve a GPA, nor will petitions be granted for time beyond one term to complete a second undergraduate degree.

In the event that a student does not petition to delay conferral of the degree within the two-week grace period, the degree will be posted to the student's transcript for the term in which all requirements were completed. In addition, a hold will be placed on the student's record that will prevent the student from registering for classes or obtaining a diploma or enrollment verification. Students enrolled in the subsequent term will be disenrolled from all classes. The student will also be assessed the graduation check fee and any late fees to which they are subject.

Diplomas

Diplomas are issued for a specific degree. Minors are not included on the diploma but are recorded on the student's university transcript.

Commencement

Special Events and Guest Services- Commencement Office
(909) 537-7360

Participation in commencement activities is voluntary.

For dates and deadlines, please visit commencement.csusb.edu (http://commencement.csusb.edu/).

Master's and Doctoral Students

To participate in commencement, candidates completing a master's or doctoral degree must file a grad check AND meet the eligibility requirements specified by their program. For the specific requirements, candidates should consult their program coordinator.

Credential Students

Students who complete a Multiple Subject, Single Subject, Education Specialist Basic credential, Pupil Personnel Services, or Designated Subjects credential can participate in a Credential Recognition Ceremony rather than commencement. The Credential Recognition Ceremony on the San Bernardino campus will be held in May. Specific information can be obtained from the College of Education, Student Services Office, CE-102, (909) 537-5609. The Credential Recognition Ceremony on the Palm Desert Campus will be held in May at PDC. Specific information can be obtained from the Palm Desert Campus College of Education Office at (760) 341-2883.

Postbaccalaureate Credit for Senior Students

Upon approval, senior students who need fewer than 15 semester units to graduate may be permitted to enroll for postbaccalaureate credit during the final term of their senior year. Postbaccalaureate credit is

used to signify courses taken after the baccalaureate degree, but does not necessarily mean graduate credit, i.e., credit applicable toward an advanced degree. Only 3000- to 6000-level courses will be considered. Note: Some 5000- and 6000-level courses require prerequisites and are open only to students classified in a master's program. A petition for this purpose is available in the Office of the Registrar.

Information for Issuance of Transcripts

Official transcripts may be ordered by mail or online through the Transcript Ordering Service (https://www.credentials-inc.com/cgi-bin/dvcgitp.pgm?ALUMTRO001142). More information and the fee schedule are available through the Office of the Registrar (https://www.csusb.edu/registrar/records/request-csusb-transcript/).

If the transcript request specifies inclusion of grades just earned or verification of a degree just awarded, two or three weeks must be allowed beyond the end of the term for a transcript to be issued.

All transcripts will be complete as of the date of issuance showing all work attempted at California State University, San Bernardino.

The university will not issue official transcripts to the student, another educational institution or a third party if there is a transcript service indicator hold in place. The student must contact the Office of the Registrar once the hold has been lifted so that the transcript request can be processed.

Access to Records

All student records, including recommendations, are kept by the university in accordance with the Family Educational Rights and Privacy Act of 1974, which allows students access to their records. Inquiries and concerns about this federal regulation should be directed to the Office of the Associate Vice President for Enrollment Management for further information.

Enrollment Verification

Student enrollment certification is based on the following minimum unit loads for undergraduate students:

Full time	12 units
3/4 time	9-11 units
1/2 time	6-8.5 units

Veterans Enrollment Certification

California State University, San Bernardino, is approved for the training of veterans of the military services and their dependents under educational assistance programs, established by the state and federal governments. Applications for educational benefits may be obtained directly from the veterans certification clerk in the Veterans Success Center.

Student enrollment certification is based on the following minimum unit loads for undergraduates:

Full time	12 semester units
3/4	9-11.5 semester units
1/2 time	6-8.5 semester units

The university will certify course loads to the Veterans Administration based on the criteria above for units which are degree or objective applicable. Veterans enrolled less than half time are eligible for reimbursement of tuition and fees only.

The information below comes from the 2025-26 catalog as the information was not released prior to publication. When new information is released, this page and the version number of the catalog will be updated.

Privacy Rights of Students in Education Records

The federal Family Educational Rights and Privacy Act of 1974 (20 U.S.C. 1232g) (FERPA) and regulations adopted thereunder (34 C.F.R. 99) set out requirements designed to protect students' privacy in their educational records maintained by the university. The statute and regulations govern access to certain student records maintained by the university and the release of those records. FERPA provides that the university must give a student access to most records directly related to the student and must also provide an opportunity to correct the records if the student believes the records are inaccurate, misleading, or otherwise inappropriate. The right to petition to correct a record under FERPA does not include the right to challenge the appropriateness of a grade determined by the instructor. In addition, FERPA generally requires the university obtain a student's written consent before releasing personally identifiable data pertaining to the student. The university has adopted a set of policies and procedures governing the implementation of FERPA and its regulations. Copies of these policies and procedures may be obtained at the Office of the Registrar. Among the information included in the university statement of policies and procedures is:

1. The student records maintained and the information they contain;
2. The university official responsible for maintaining each record;
3. The location of access lists identifying persons requesting or receiving information from the record;
4. Policies for reviewing and expunging records;
5. Student access rights to their records;
6. Procedure for challenging the content of student records; and
7. The student's right to file a complaint with the Department of Education, which enforces FERPA. The Department of Education has established an office and review board to investigate complaints and adjudicate potential FERPA violations. The designated office is: Student Privacy Policy Office, U.S. Department of Education, 400 Maryland Avenue, SW, Washington, D.C. 20202-5920.

FERPA authorizes that the university may release "directory information" pertaining to students. "Directory information" may include the student's name, address, telephone listing, electronic mail address, photograph, date and place of birth, major field of study, participation in officially recognized activities and sports, weight and height of members of athletic teams, dates of attendance, grade level, enrollment status, degrees, honors, and awards received, and the most recent previous educational agency or institution the student attended. The university may release this "directory information" unless the university has received prior written objection from the student specifying the information the student requests not be released. Written objections must be sent to the Office of the Registrar.

FERPA authorizes the university to provide access to student records without prior student consent to university officials, employees and others who have legitimate educational interests in such access. These persons include those with legitimate reasons to access student records to perform the university's academic, administrative or service functions, and those with a reason for accessing student records associated with

their university or other related academic responsibilities. Student records will also be disclosed to the CSU Chancellor's Office to conduct research, to analyze trends, or to provide other administrative services. Student records may also be disclosed without prior student consent to other persons or organizations under certain conditions (e.g., as part of the accreditation or program evaluation, in response to a court order or subpoena, in connection with financial aid, or to other institutions to which the student is transferring).

Student Email Policy

The University intends to replace many of the letters sent to students via the U.S. Postal Service with email communications. As a result, it is strongly recommended that students check their email accounts daily. The consequences of not checking email are the same as those for not checking a U.S. Postal mailbox. Some of these consequences include missing payment deadlines, missing registration deadlines, missing immunization deadlines, missing out on opportunities for financial aid, and missing requirements and deadlines for graduation.

Students are responsible for the consequences of not reading university-related communications sent to their email account. Students have the responsibility to recognize that certain communications may be time-critical. Errors in forwarding email to a personal email address or failure to read emails regularly are not acceptable reasons for missing university deadlines.

Students have the responsibility to monitor their email accounts and avoid emails being rejected due to limited space in their account.

Plagiarism and Cheating

Plagiarism and cheating are violations of the *Standards for Student Conduct* (Title 5, §41301, California Code of Regulations). Definitions and procedures for addressing cheating and plagiarism are found in the CSUSB Faculty Senate Policies and Procedures Concerning Academic Dishonesty (FAM 803.5) (https://www.csusb.edu/sites/default/files/upload/file/%28FSD96-12.R2%29Academic_Dishonesty_0.pdf)and the California State University *Student Conduct Process* (Executive Order 1098) and may be addressed by both the instructor and the Student Conduct Administrator.

Procedures for addressing cheating and plagiarism are described below. Questions about academic dishonesty and the policy should be addressed to the Office of Student Conduct and Ethical Development (student-conduct@csusb.edu).

As described in FAM 803.5, plagiarism is the act of presenting the ideas and writing of another as one's own. Cheating is the act of obtaining or attempting to obtain credit for academic work through the use of any dishonest, deceptive, or fraudulent means.

Cheating includes but is not limited to:

- Copying, in part or in whole, from another's test, software, or other evaluation instrument;
- Submitting work previously graded in another course unless this has been approved by the course instructor or by departmental policy;
- Submitting work simultaneously presented in two courses, unless this has been approved by both course instructors or by the department policies of both departments;
- Using or consulting during an examination sources or materials not authorized by the instructor;
- Altering or interfering with grading or grading instructions;
- Sitting for an examination by a surrogate, or as a surrogate;
- Any other act committed by a student in the course of his or her academic work, which defrauds or misrepresents, including aiding or abetting in any of the actions defined above.

Plagiarism is academically dishonest and subjects the offending student to penalties up to and including expulsion. Students must make appropriate acknowledgements of the original source where material written or compiled by another is used.

Procedure

Allegations of academic dishonesty are initially addressed by the instructor **and must also be referred by the instructor to the Office of Student Conduct and Ethical Development, in accordance with CSUSB FAM 803.5 and California State University *Student Conduct Process* (Executive Order 1098).**

The instructor may employ any of the following sanctions:

- Verbal or written reprimand;
- Assignment of appropriate task or examination;
- Change of grade, including assigning a punitive grade to the work involving the dishonesty, or for the course, project, thesis, or any other summary evaluation of the student's academic work.

If the instructor takes any of the actions described above, the instructor has the following responsibilities:

- To preserve the evidence in support of the allegation;
- To notify the student of the allegation and of the evidence on which it is based;
- To provide the student a reasonable opportunity to challenge or rebut the allegation;
- To notify the student of the action being taken.

If any penalties are assigned by the instructor, the instructor must submit a referral to the Office of Student Conduct and Ethical Development, and may include a recommendation as to whether any further disciplinary action should be taken by the Student Conduct Administrator. If the student does not wish to accept the sanction proposed by the instructor, the student may request and require that the allegation be referred to the Office of Student Conduct and Ethical Development. Once referred to the Office of Student Conduct, the procedures specified under CSU *Student Conduct Process* (Executive Order 1098) of the California State University shall be observed. The instructor shall not impose any sanction other than the sanction(s) imposed through the disciplinary procedure.

Standards for Student Conduct

The Office of Student Conduct and Ethical Development is responsible for upholding the *Standards for Student Conduct* and educating students on their social and ethical responsibilities as members of our University community. The Office investigates student discipline matters in accordance with CSU *Student Conduct Process* (Executive Order 1098). Questions about the student discipline process may be directed to the Office of Student Conduct and Ethical Development via (909) 537-7172 or student-conduct@csusb.edu.

Standards for Student Conduct

Title 5, California Code of Regulations, § 41301, *Standards for Student Conduct.*

1. **Campus Community Values**
   The university is committed to maintaining a safe and healthy living and learning environment for students, faculty, and staff. Each member of the campus community should choose behaviors that contribute toward this end. Students are expected to be good citizens and to engage in responsible behaviors that reflect well upon their university, to be civil to one another and to others in the campus community, and contribute positively to student and university life.

1. **Grounds for Student Discipline**
   Student behavior that is not consistent with the Student Conduct Code is addressed through an educational process that is designed to promote safety and good citizenship and, when necessary, impose appropriate consequences.

The following are the grounds upon which student discipline can be based:

1. Dishonesty, including:
   a. Cheating, plagiarism, or other forms of academic dishonesty that are intended to gain unfair academic advantage.
   b. Furnishing false information to a university official, faculty member, or campus office.
   c. Forgery, alteration, or misuse of a university document, key, or identification instrument.
   d. Misrepresenting one's self to be an authorized agent of the university or one of its auxiliaries.
2. Unauthorized entry into, presence in, use of, or misuse of university property.
3. Willful, material and substantial disruption or obstruction of a University-related activity, or any on-campus activity.
4. Participating in an activity that substantially and materially disrupts the normal operations of the university, or infringes on the rights of members of the university community.
5. Willful, material and substantial obstruction of the free flow of pedestrian or other traffic, on or leading to campus property or an off-campus university related activity.
6. Disorderly, lewd, indecent, or obscene behavior at a University related activity, or directed toward a member of the university community.
7. Conduct that threatens or endangers the health or safety of any person within or related to the university community, including physical abuse, threats, intimidation, harassment, or sexual misconduct.
8. Hazing or conspiracy to haze. Hazing is defined as any method of initiation or pre-initiation into a student organization or student body, whether or not the organization or body is officially recognized by an educational institution, which
   is likely to cause serious bodily injury to any former, current, or prospective student of any school, community college, college, university or other educational institution in this state (Penal Code 245.6), and in addition, any act likely to cause physical harm, personal degradation or disgrace resulting in physical or mental harm, to any former, current, or prospective student of any school, community college, college, university or other educational institution. The term "hazing" does not include customary athletic events or school sanctioned events.
   Neither the express or implied consent of a victim of hazing, nor the lack of active participation in a particular hazing incident is a defense. Apathy or acquiescence in the presence of hazing is not a neutral act, and is also a violation of this section.
9. Use, possession, manufacture, or distribution of illegal drugs or drug-related paraphernalia, (except as expressly permitted by law and university regulations) or the misuse of legal pharmaceutical drugs.
10. Use, possession, manufacture, or distribution of alcoholic beverages (except as expressly permitted by law and university regulations), or public intoxication while on campus or at a university related activity.
11. Theft of property or services from the university community, or misappropriation of university resources.
12. Unauthorized destruction or damage to university property or other property in the university community.
13. Possession or misuse of firearms or guns, replicas, ammunition, explosives, fireworks, knives, other weapons, or dangerous chemicals (without the prior authorization of the campus president) on campus or at a university related activity.
14. Unauthorized recording, dissemination, or publication of academic presentations (including handwritten notes) for a commercial purpose.
15. Misuse of computer facilities or resources, including:
    a. Unauthorized entry into a file, for any purpose.
    b. Unauthorized transfer of a file.
    c. Use of another's identification or password.
    d. Use of computing facilities, campus network, or other resources to interfere with the work of another member of the university community.
    e. Use of computing facilities and resources to send obscene or intimidating and abusive messages.
    f. Use of computing facilities and resources to interfere with normal university operations.
    g. Use of computing facilities and resources in violation of copyright laws.
    h. Violation of a campus computer use policy.
16. Violation of any published university policy, rule, regulation or presidential order.
17. Failure to comply with directions or, or interference with, any university official or any public safety officer while acting in the performance of his/her duties.
18. Any act chargeable as a violation of a federal, state, or local law that poses a substantial threat to the safety or well-being of members of the university community, to property within the university community or poses a significant threat of disruption or interference with university operations.
19. Violation of the Student Conduct Procedures, including:
    a. Falsification distortion, or misrepresentation of information related to a student discipline matter.
    b. Disruption or interference with the orderly progress of a student discipline proceeding.
    c. Initiation of a student discipline proceeding in bad faith.
    d. Attempting to discourage another from participating in the student discipline matter.
    e. Attempting to influence the impartiality of any participant in a student discipline matter.
    f. Verbal or physical harassment or intimidation of any participant in a student discipline matter.
    g. Failure to comply with the sanction(s) imposed under a student discipline proceeding.

20. Encouraging, permitting, or assisting another to do any act that could subject him or her to discipline.

1. **Procedures for Enforcing This Code**
   The chancellor shall adopt procedures to ensure students are afforded appropriate notice and an opportunity to be heard before the university imposes any sanction for a violation of the Student Conduct Code. [Note: At the time of publication, such procedures are set forth in California State University *Student Conduct Process* (Executive Order 1098) available at https://calstate.policystat.com/policy/8453518/latest/.

2. **Application of This Code**
   Sanctions for the conduct listed above can be imposed on applicants, enrolled students, students between academic terms, graduates awaiting degrees, and students who withdraw from school while a disciplinary matter is pending. Conduct that threatens the safety or security of the campus community, or substantially disrupts the functions or operation of the university is within the jurisdiction of this Article regardless of whether it occurs on or off campus. Nothing in this Code may conflict with Education Code Section 66301 that prohibits disciplinary action against students based on behavior protected by the First Amendment.

Title 5, California Code of Regulations, § 41302. Disposition of Fees: Campus Emergency; Interim Suspension.

The president of the campus may place on probation, suspend, or expel a student for one or more of the causes enumerated in Section 41301. No fees or tuition paid by or for such student for the semester, quarter, or summer session in which he or she is suspended or expelled shall be refunded. If the student is readmitted before the close of the semester, quarter, or summer session in which he or she is suspended, no additional tuition or fees shall be required of the student on account of the suspension.

During periods of campus emergency, as determined by the president of the individual campus, the president may, after consultation with the chancellor, place into immediate effect any emergency regulations, procedures, and other measures deemed necessary or appropriate to meet the emergency, safeguard persons and property, and maintain educational activities.

The president may immediately impose an interim suspension in all cases in which there is reasonable cause to believe that such an immediate suspension is required in order to protect lives or property and to insure the maintenance of order. A student so placed on interim suspension shall be given prompt notice of charges and the opportunity for a hearing within 10 days of the imposition of interim suspension. During the period of interim suspension, the student shall not, without prior written permission of the president or designated representative, enter any campus of the California State University other than to attend the hearing. Violation of any condition of interim suspension shall be grounds for expulsion.

Civil and Criminal Penalties for Violation of Federal Copyright Laws

Anyone who is found to be liable for copyright infringement may be liable for either the owner's actual damages along with any profits of the infringer or statutory damages of up to $30,000 per work infringed. In the case of a willful infringement, a court may award up to $150,000 per work infringed. (See 17 U.S.C. §504.) Courts also have discretion to award costs and attorneys' fees to the prevailing party. (See 17 U.S.C. §505.) Under certain circumstances, willful copyright infringement may also result in criminal penalties, including imprisonment and fines. (See 17 U.S.C. §506 and 18 U.S.C.§2319.)

Nondiscrimination Policy and Complaint Procedures

Protected Status: Age, Genetic Information, Marital Status, Medical Condition, Nationality, Race or Ethnicity (including color, caste, or ancestry), Religion or Religious Creed, and Veteran or Military Status.

The California State University does not discriminate on the basis of age, genetic information, marital status, medical condition, nationality, race or ethnicity (including color, caste and ancestry), religion (or religious creed), and veteran or military status – as these terms are defined in the in its programs and activities, including admission and access. Federal and state laws, including Title VI of the Civil Rights Act of 1964 (https://www.justice.gov/crt/fcs/TitleVI/) and the California Equity in Higher Education Act (https://calmatters.digitaldemocracy.org/bills/ca_202320240ab2326/), prohibit such discrimination. Steven Vasquez, Executive Director has been designated to coordinate the efforts of CSUSB to comply with all applicable federal and state laws prohibiting discrimination on these bases. Inquiries concerning compliance may be presented to this person at 5500 University Parkway, SH 103, San Bernardino, CA 92407 and (909) 537-5669. The Interim CSU Nondiscrimination Policy-Student Respondent Procedure (https://www.calstate.edu/csu-system/administration/systemwide-human-resources/civil-rights/titleix/Documents/Superseded-Procedures-Student-Dated-8-1-2024.pdf)s (or any successor procedure) is the systemwide procedure for all complaints or discrimination, harassment or retaliation *made against* other CSU students*.* The Interim CSU Nondiscrimination Policy-Employee or Third-Party Respondent Procedures (https://calstate.policystat.com/policy/17650990/latest/) (or any successor procedure) is the system wide procedure for all complaints of discrimination, harassment or retaliation made against the CSU, a CSU employee or a third party.

Protected Status: Disability

The California State University does not discriminate on the basis of disability (physical and mental) – as this term is defined in the Interim CSU Nondiscrimination Policy (https://www.calstate.edu/csu-system/administration/systemwide-human-resources/civil-rights/titleix/Pages/policies.aspx) – in its programs and activities, including admission and access. Federal and state laws, including sections 504 and 508 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, prohibit such discrimination. Steven Vasquez, Executive Director has been designated to coordinate the efforts of CSUSB to comply with all applicable federal and state laws prohibiting discrimination on the basis of disability. Inquiries concerning compliance may be presented to this person at 5500 University Parkway, SH 103, San Bernardino, CA 92407 and (909) 537-5669. The Interim CSU Nondiscrimination Policy-Student Respondent Procedures (https://calstate.policystat.com/policy/17650729/latest/)(or any successor procedure) is the systemwide procedure for all complaints of discrimination, harassment or retaliation *made against,* other CSU students. The Interim CSU Nondiscrimination Policy-Employee or Third-Party Respondent Procedures (https://calstate.policystat.com/policy/17650990/latest/) (or any successor procedure) is the systemwide procedure for all complaints of

discrimination, harassment or retaliation made against the CSU, a CSU employee or a third party.

Protected Status: Gender (or sex), Gender Identity (including Non-binary and trans-gender), Gender Expression, Pregnancy and Sexual Orientation.

The California State University does not discriminate on the basis of gender (or sex), gender identity (including nonbinary and transgender) gender expression, pregnancy and sexual orientation – as these terms are defined in CSU (https://www.calstate.edu/csu-system/administration/systemwide-human-resources/civil-rights/titleix/Pages/policies.aspx) policy (https://www.calstate.edu/csu-system/administration/systemwide-human-resources/civil-rights/titleix/Pages/policies.aspx)– in its programs and activities, including admission and access. Federal and state laws, including Title IX of the Education Amendments of 1972, prohibit such discrimination. Steven Vasquez, Executive Director has been designated to coordinate the efforts of CSUSB to comply with all applicable federal and state laws prohibiting discrimination on these bases. Inquiries concerning compliance may be presented to this person at 5500 University Parkway, SH 103, San Bernardino, CA 92407 and (909) 537-5669. The California State University is committed to providing equal opportunities to all CSU students in all university programs, including intercollegiate athletics. The Interim CSU Nondiscrimination Policy-Student Respondent Procedures (https://calstate.policystat.com/policy/17650729/latest/) (or any successor policy) are the systemwide procedures for all complaints of discrimination, harassment or retaliation made against other CSU students. The Interim CSU Nondiscrimination Policy-Employee or Third-Party Procedures (https://www.calstate.edu/csu-system/administration/systemwide-human-resources/civil-rights/titleix/Pages/policies.aspx) (or any successor procedure) are the systemwide procedure for all complaints of discrimination, harassment or retaliation made against the CSU, a CSU employee or a third party.

Track 1 (Federal Mandated Hearing Process) applies to Complaints against a Student, Employee, Third Parties, and/or Student-Employees where the alleged conduct:

1. Meets the definition of Sexual Harassment as defined in Article V.B of the Nondiscrimination Policy (also defined in Track 1, Article II.K); and
2. Occurred in the United States; and
3. Occurred in an education program or activity at the university, as defined in Track 1, Article II.E.

As a matter of federal and state law and California State University policy, the following types of conduct are prohibited:

Discrimination

Discrimination is conduct that causes harm to a Complainant based on their actual or perceived Protected Status within the CSU's educational programs, activities, or employment which results in the denial or limitation of services, benefits, or opportunities provided by the CSU. Under the CSU Nondiscrimination Policy, the definition of Discrimination includes:

- Different Treatment Discrimination: Different Treatment Discrimination occurs when the Complainant is: 1) treated less favorably; 2) than other similarly situated individuals under similar circumstances; 3) because of the Complainant's actual or perceived Protected Status; and 4) not for a legitimate, nondiscriminatory reason. Insignificant or trivial actions or conduct not reasonably likely to do more than anger or upset a Complainant do not constitute "Different Treatment Discrimination."
- Under this Nondiscrimination Policy, discrimination in employment includes any adverse employment action or conduct that is reasonably likely to impair the Employee's job performance or prospects for advancement or promotion.
- An allegation that an Employee is receiving unequal pay because of their Protected Status (for example, under the California Equal Pay Act) constitutes a Discrimination Complaint under this Nondiscrimination Policy.

Harassment

Harassment means unwelcome verbal, nonverbal, or physical conduct engaged in because of an individual Complainant's Protected Status. Harassment includes but is not limited to, verbal harassment (e.g., epithets, derogatory comments, or slurs), physical harassment (e.g., assault, impeding or blocking movement, or any physical interference with normal work or movement), and visual forms of harassment (e.g., derogatory posters, cartoons, drawings, symbols, or gestures.). Single, isolated incidents will typically be insufficient to rise to the level of Harassment.

Harassment may occur when:

Submitting to, or rejecting verbal, nonverbal, or physical conduct is explicitly or implicitly a basis for:

- Any decision affecting a term or condition of the Complainant's employment.
- Any decision affecting a Complainant's academic status or progress, or access to benefits and services, honors, programs, or activities available at or through the University.

OR

- The conduct is sufficiently severe or pervasive so that its effect, whether intended or not, could be considered by a reasonable person under similar circumstances and with similar identities, and is in fact considered by the Complainant, as creating an intimidating, hostile, or offensive work or educational environment that denies or substantially limits an individual's ability to participate in or benefit from employment and/or educational, services, activities, or other privileges provided by the CSU.

Whether a hostile environment has been created is a fact-specific inquiry that includes consideration of the following:

- The frequency, nature, and duration of the conduct;
- Whether the conduct was physically threatening;
- Whether the conduct arose in the context of other discriminatory conduct or other misconduct;
- The degree to which the conduct affected the Complainant's ability to access the CSU's educational programs, activities, or employment;
- The Parties' ages, roles within the CSU's educational programs or activities, previous interactions, and other factors about each Party that may be relevant to evaluating the effects of the conduct; and
- Other Harassment in the CSU's educational programs, activities, or employment.

Sexual Harassment

- Sexual Harassment means unwelcome verbal, nonverbal or physical conduct of a sexual nature that includes, but is not limited to, sexual advances, requests for sexual favors, offering employment benefits or giving preferential treatment in exchange for sexual favors, or

any other conduct of a sexual nature. There are two kinds of Sexual Harassment:

- Quid pro quo: Quid pro quo is Latin for "this for that" and occurs when an Employee, agent, or other person in a position of power conditions an employment or educational benefit or service on submission to sexual advances or other conduct based on sex. Quid pro quo harassment exists when submitting to, or rejecting, the verbal, nonverbal or physical conduct is explicitly or implicitly a basis for:
- Any decision affecting a term or condition of the Complainant's employment; or
- Any decision affecting a Complainant's academic status or progress, or access to benefits and services, honors, programs, or activities available at or through the University.

OR

- Hostile environment harassment is unwelcome sex-based conduct that, based on the totality of the circumstances, is subjectively and objectively offensive and so severe, persistent, or pervasive that it limits or denies the Complainant's ability to participate in or benefit from the CSU's educational programs, activities, or employment. Hostile environment harassment must either:
- Create an intimidating, hostile or offensive work environment; or
- Limit a Student's ability to participate in or benefit from the services, activities, or opportunities offered by the University. Whether a hostile environment has been created is a fact-specific inquiry that includes consideration of the following:
- The frequency, nature, and duration of the conduct;
- Whether the conduct was physically threatening;
- Whether the conduct arose in the context of other discriminatory conduct or other misconduct;
- The degree to which the conduct affected the Complainant's ability to access the CSU's educational programs, activities, or employment;
- The Parties' ages, roles within the CSU's educational programs or activities, previous interactions, and other factors about each Party that may be relevant to evaluating the effects of the conduct; and
- Other Sexual Harassment in the CSU's educational programs, activities, or employment. Sexual Harassment could include being forced to engage in unwanted sexual contact as a condition of membership in a student organization or in exchange for a raise or promotion; being subjected to video exploitation or a campaign of sexually explicit content; or frequently being exposed to unwanted images of a sexual nature in a work environment, or in a classroom where the images are unrelated to the coursework. Claiming that the conduct was not motivated by sexual desire is not a defense to a Complaint of Sexual Harassment.

Sexual Misconduct

All sexual activity between members of the CSU community must be based on Affirmative Consent. Engaging in any sexual activity without first obtaining Affirmative Consent to the specific activity is Sexual Misconduct, whether or not the conduct violates any civil or criminal law.

1. Sexual activity includes, but is not limited to:
   - Kissing
   - touching intimate body parts
   - fondling
   - intercourse
   - penetration, no matter how slight, of the vagina or anus with any part or object
   - oral copulation of a sex organ by another person.
2. Sexual Misconduct includes, but is not limited to, the following conduct:
   - an attempt, coupled with the ability, to commit a violent injury on the person of another because of that person's Gender or Sex,
   - the intentional touching of another person's intimate body parts without Affirmative Consent,
   - intentionally causing a person to touch the intimate body parts of another without Affirmative Consent,
   - using a person's own intimate body part to intentionally touch another person's body without Affirmative Consent,
   - any unwelcome physical sexual acts, such as unwelcome sexual touching,
   - using physical force, violence, threat, or intimidation to engage in sexual activity,
   - ignoring the objections of the other person to engage in sexual activity,
   - causing the other person's incapacitation through the use of drugs or alcohol to engage in sexual activity,
   - taking advantage of the other person's incapacitation to engage in sexual activity.
3. Intimate body part means the sexual organ, anus, groin, buttocks, or breasts of any person.
4. Sexual activity between a Minor (a person younger than 18 years old) and a person who is at least 18 and two years older than the Minor always constitutes Sexual Misconduct, even if there is Affirmative Consent to all sexual activity. The existence of Affirmative Consent and/or the type of sexual activity may be relevant to the determination of an appropriate Sanction.
5. Persons of all Genders, Gender Identities, Gender Expressions, and Sexual Orientations can be victims of these forms of Sexual Misconduct. Sexual Misconduct can be committed by an individual known to the victim including a person the Complainant may have just met, i.e., at a party, introduced through a friend, or on a social networking website.

Affirmative Consent

Affirmative Consent means an agreement to engage in sexual activity that is informed, affirmative, conscious, voluntary, and mutual. Affirmative Consent must be given freely and without coercion, force, threats, intimidation, or by taking advantage of another person's incapacitation. It is the responsibility of each person involved in the sexual activity to ensure Affirmative Consent has been obtained from the other participant(s) prior to engaging in the sexual activity.

- Affirmative consent is given by clear words or actions. Affirmative consent includes knowledge and agreement to engage in the specific sexual activity.
- Affirmative Consent must be ongoing throughout a sexual activity and can be withdrawn or revoked at any time, including after sexual activity begins. Once consent is withdrawn or revoked and clearly communicated, the sexual activity must stop immediately.
- Consent to one form of sexual activity or one sexual act does not constitute consent to other forms of sexual activity. Consent given to sexual activity on one occasion does not constitute consent on another occasion.

- Affirmative Consent cannot be inferred from an existing or previous dating, social, or sexual relationship between the Parties.
- Silence does not mean there is Affirmative Consent.
- Lack of protest or resistance does not mean there is Affirmative Consent.
- A request for someone to use a condom or birth control does not, in and of itself, mean there is Affirmative Consent.
- Affirmative Consent cannot be given by a person who is incapacitated. A person is unable to consent when asleep, unconscious, or incapacitated due to the influence of drugs, alcohol, or medication.

Incapacitation: A person is incapacitated if they lack the physical and/or mental ability to make informed, rational decisions about whether or not to engage in sexual activity. A person with a medical or mental disability may also lack the capacity to give consent. Incapacitation exists when a person could not understand the fact, nature, or extent of the sexual activity.

It shall not be a valid excuse that a person affirmatively consented to the sexual activity if the Respondent knew or reasonably should have known that the person was unable to consent to the sexual activity under any of the following circumstances:

- The person was asleep or unconscious;
- The person was incapacitated due to the influence of drugs, alcohol, or medication, so that the person could not understand the fact, nature, or extent of the sexual activity; or
- The person was unable to communicate due to a physical or mental condition.
- It shall not be a valid excuse that the Respondent believed that the person consented to the sexual activity under either of the following circumstances:
- The Respondent's belief in Affirmative Consent arose from the intoxication or recklessness of the Respondent;
- The Respondent did not take reasonable steps, in the circumstances known to the Respondent at the time, to ascertain whether the person affirmatively consented.
- Whether an intoxicated person (as a result of using alcohol, drugs, or medication) is incapacitated will require an individualized determination about the extent to which the alcohol or other drugs impact the person's decision-making ability, awareness of consequences, and ability to make informed judgments. The level of intoxication may change over a period of time based on a variety of individual factors, including the amount of substance consumed, speed of intake, body mass, height, weight, tolerance, food consumption, drinking patterns, and metabolism. A person's own intoxication or incapacitation from drugs or alcohol does not diminish that person's responsibility to obtain Affirmative Consent before engaging in sexual activity.
- Incapacitation due to alcohol, drugs or medication is a state of intoxication that is so severe that it interferes with a person's capacity to make informed and knowing decisions. A person who is incapacitated may not be able to understand where they are, whom they are with, how they got there, or what is happening. Signs that a person may be incapacitated due to the influence of drugs, alcohol, or medication include, but are not limited to, the following:
  - slurred speech or difficulty communicating clearly;
  - clumsiness or lack of physical coordination (e.g., difficulty standing or walking without assistance);
  - impaired motor skills (e.g., eating, drinking, texting);
  - disorientation regarding time and place;
  - difficulty concentrating;
  - vomiting;
  - combativeness or emotional volatility; or
  - sleeping, unconsciousness, or going in and out of consciousness.
- Incapacitation may also include memory impairment or an inability to recall entire or partial events (sometimes referred to as "black-out" or "brown-out"). A person may experience this symptom while appearing to be functioning "normally," including communicating through actions or words that can reasonably and objectively be interpreted as communicating consent to engage in sexual activity. Total or partial loss of memory alone may not be sufficient, without additional evidence, to prove that an individual was incapacitated under this Policy. Whether sexual activity under these circumstances constitutes Prohibited Conduct depends on the presence or absence of the outwardly observable factors indicating that an individual is incapacitated, as described above.
- In evaluating Affirmative Consent in cases involving incapacitation, the CSU considers the totality of available information in determining whether a Respondent knew or reasonably should have known that the Complainant was incapacitated.

Sexual Exploitation means a person taking sexual advantage of another person for the benefit of anyone other than that person without that person's consent, including, but not limited to, any of the following acts:

- The prostituting of another person.
- The trafficking of another person, defined as the inducement of a person to perform a commercial sex act, or labor of services, through force, fraud, or coercion.
- The recording of images, including video or photograph, or audio of another person's sexual activity or intimate parts, without that person's consent.
- The distribution of images, including video or photographs, or audio of another person's sexual activity or private body parts, if the individual distributing the images or audio knows or should have known that the person depicted in the images or audio did not consent to the disclosure. This includes distribution of digitally altered or artificial-intelligence-generated images, video, and audio.
- The viewing of another person's sexual activity or private body parts, in a place where that other person would have a reasonable expectation of privacy, without that person's consent, for the purpose of arousing or gratifying sexual desire.

Dating Violence and Domestic Violence

Dating Violence means physical violence or threat of physical violence committed by a person:

1. Who is or has been in a social relationship of a romantic or intimate nature with the Complainant; and
2. Where the existence of such a relationship shall be determined based on a consideration of the following factors:
   a. The length of the relationship.
   b. The type of relationship.
   c. The frequency of interaction between the persons involved in the relationship.

Domestic Violence means physical violence or threat of physical violence committed by a current or former spouse or intimate partner of the

Complainant, by a person with whom the Complainant shares a child in common, by a person who is cohabitating with or has cohabitated with the Complainant as a spouse or intimate partner, or by a person similarly situated to a spouse of the Complainant. Domestic violence also includes acts against a Minor or adult victim who is protected from those acts under the family or domestic laws of the state.

Stalking

Stalking means engaging in a Course of Conduct directed at a specific person that would cause a reasonable person to fear for the safety of self or others' safety or to suffer Substantial Emotional Distress. For purposes of this definition:

- Course of Conduct means two or more acts, including but not limited to, acts in which one party directly, indirectly, or through third parties, by any action, method, device, or means, follows, monitors, observes, surveils, threatens, or communicates to or about the other party, or interferes with the other party's property.
- Substantial Emotional Distress means significant mental suffering or anguish that may but does not necessarily require medical or other professional treatment or counseling.

Prohibited Consensual Relationships

A Prohibited Consensual Relationship includes consensual sexual or romantic relationships between an Employee and any Student or Employee over whom they exercise direct or otherwise significant academic, administrative, supervisory, evaluative, counseling, or extracurricular authority.

1. A consensual relationship means a sexual or romantic relationship between two individuals who voluntarily enter into such a relationship.
2. While sexual and/or romantic relationships between members of the University community may begin as consensual, they may evolve into situations that lead to Discrimination, Harassment, Retaliation, Sexual Misconduct, Sexual Exploitation, Dating Violence, Domestic Violence, or Stalking subject to this Nondiscrimination Policy.
3. It is a violation of this Nondiscrimination Policy for an Employee to enter into a Prohibited Consensual Relationship.
4. Examples of Prohibited Consensual Relationships include, but are not limited to, a supervisor and an employee in their chain of command; a faculty member and a student enrolled in their class; a counselor and a student they are advising; a resident advisor and a student in their building; a club advisor and club member.

Retaliation

Retaliation is intimidation, coercion, or discrimination against any individual for the purpose of interfering with their exercise of any rights under this Nondiscrimination Policy by:

- Reporting or filing a Complaint;
- Participating or refusing to participate in any manner in any Policy-related investigation or proceeding, including a hearing;
- Opposing conduct which was reasonably and in good faith believed to be in violation of this Nondiscrimination Policy;
- Assisting or participating in an investigation or proceeding under this Nondiscrimination Policy, regardless of whether the Complaint was substantiated; or
- Assisting someone else in reporting or opposing a violation of this Nondiscrimination Policy or assisting someone else in reporting or opposing Retaliation under this Nondiscrimination Policy.
- For purposes of this definition, Retaliation includes conduct that would discourage a reasonable person from reporting or participating in a process provided for in this Policy, including threats, intimidation, coercion, reprisals, discrimination, and adverse employment or educational actions.
- Peer Retaliation, which is defined as Retaliation by one Student against another Student, is also prohibited.
- Retaliation may occur even when there is not a power or authority differential between the individuals involved.
- The exercise of rights protected under the First Amendment does not constitute Retaliation prohibited under this definition.
- Good faith actions lawfully pursued in response to a Complaint, such as gathering evidence, providing Supportive Measures, or disciplining Students or Employees found to be in violation of this Nondiscrimination Policy, without more, are not considered Retaliation.

Track 1 Prohibited Conduct Definitions

1. Sexual Harassment means conduct on the basis of Sex that satisfies one or more of the following:
   a. An Employee conditioning the provision of an aid, benefit, or service of the University on an individual's participation in unwelcome sexual conduct;
   b. Unwelcome conduct determined based on the reasonable person standard to be so severe, pervasive, and objectively offensive that it effectively denies a person equal access to an Education Program or Activity.
2. Sexual Assault includes the following:
   a. Rape is the penetration or attempted penetration, no matter how slight, of the vagina or anus with any body part or object, or oral penetration by a sex organ of another person, without the Affirmative Consent of the Complainant. Rape also includes the attempted penetration, no matter how slight, of the vagina or anus with any body part or object, or oral penetration by a sex organ of another person, without the Affirmative Consent of the Complainant, with the present ability and the intent to commit Rape.
   b. Fondling is the touching of the private body parts of another person for the purpose of sexual gratification, without the Affirmative Consent of the victim, including instances where the Complainant is incapable of giving Affirmative Consent because of their age or because of their temporary or permanent mental incapacity.
   c. Incest is sexual intercourse between persons who are related to each other within the degrees wherein marriage is prohibited by law.
   d. Statutory Rape is sexual intercourse with a person who is under the age of 18 years, the California statutory age of consent. The definition of Affirmative Consent is that under Article VII.A.3 above.
3. Dating Violence means physical violence or threat of physical violence committed by a person:
   a. who is or has been in a social relationship of a romantic or intimate nature with the Complainant; and
   b. where the existence of such a relationship shall be determined based on a consideration of the following factors:
      - The length of the relationship.
      - The type of relationship.

- The frequency of interaction between the persons involved in the relationship.

4. Domestic Violence means physical violence or threat of physical violence committed by a current or former spouse or intimate partner of the Complainant, by a person with whom the Complainant shares a child in common, by a person who is cohabitating with or has cohabitated with the Complainant as a spouse or intimate partner, or by a person similarly situated to a spouse of the Complainant.
5. Stalking means engaging in a course of conduct directed at a specific person that would cause a reasonable person to:
   - fear for their safety or the safety of others; or
   - suffer substantial emotional distress.

See further information in CSUSB sexual violence prevention and education statement, Title IX Notice of Nondiscrimination (which includes facts and myths about sexual violence), and Victim's Rights and Options Notice, at https://www.csusb.edu/institutional-equity-compliance (https://www.csusb.edu/institutional-equity-compliance/).

Whom to Contact If You Have Complaints, Questions or Concerns

Title IX requires the university to designate a Title IX Coordinator to monitor and oversee overall Title IX compliance. The university Title IX Coordinator is available to explain and discuss the university's complaint process, including the investigation and hearing process; the availability of reasonable supportive measures (both on and off campus regardless of whether the person chooses to report the conduct); the right to file a criminal complaint (for example, in cases of sexual misconduct); how confidentiality is handled; and other related matters. *If you are in the midst of an emergency, please call the police immediately by dialing 9-1-1.*

***Steven Vasquez**, Title IX Coordinator & DHR Administrator*
California State University, San Bernardino
5500 University Parkway
Sierra Hall, 131
San Bernardino, CA 92407-2393
Email: *iec@csusb.edu*
Website: https://www.csusb.edu/institutional-equity-compliance (https://www.csusb.edu/institutional-equity-compliance/)
Phone: (909) 537-5669
Regular office hours: Monday-Friday, 8:00 AM-5:00 PM

Title IX requires the university to adopt and publish complaint procedures that provide for prompt and equitable resolution of gender discrimination complaints, including sexual harassment and misconduct, as well as provide training, education and preventive measures related to sex discrimination. Interim CSU Nondiscrimination Policy – Student Respondent Procedure (https://calstate.policystat.com/policy/17650729/latest/) (or any successor procedure) is the systemwide procedure for all complaints of discrimination, harassment or retaliation made against, other CSU students. CSU Nondiscrimination Policy – The Interim CSU nondiscrimination Policy-Employee or Third-Party Respondent Procedures (https://calstate.policystat.com/policy/17650990/latest/) (or any successor procedures) are the systemwide procedures for all complaints of discrimination, harassment or retaliation made against the CSU, a CSU employee or a third party.

Duty to Report

Except as provided below under confidentiality and sexual misconduct, dating violence, domestic violence, and stalking, any university employee who knows or has reason to know of allegations or acts that violate university policy shall promptly inform the Title IX Coordinator. These employees are required to disclose all information including the names of the parties, even where the person has requested that their name remain confidential. The Title IX Coordinator will determine whether confidentiality is appropriate given the circumstances of each such incident. (See confidential reporting options outlined below.)

Regardless of whether an alleged victim of gender discrimination ultimately files a complaint, if the university knows or has reason to know about possible sexual discrimination, harassment or misconduct, it must review the matter to determine if an investigation is warranted. The university must then take appropriate steps to eliminate any gender discrimination/harassment/misconduct, prevent its recurrence, and remedy its effects.

U.S. Department of Education, Office for Civil Rights (OCR):

(800) 421-3481 (National Headquarters); or (800) 877-8339 (TDD) or ocr@ed. (ocr@ed.gove)gov (ocr@ed.gove) (National Headquarters) or (206) 607-1600 (Seattle office for California Complaints), or ocr (ocr.sanfrancisco@ed.gov).seattle@ed.gov (ocr.seattle@ed.gov) (Seattle office)

If you wish to fill out a complaint form online with the OCR, you may do so using the OCR Electronic Complaint Form.

Safety of the University Community is Primary

The university's primary concern is the safety of its university community members. The use of alcohol or drugs never makes the victim at fault for gender discrimination, harassment or sexual misconduct; therefore, victims should not be deterred from reporting incidents of sexual misconduct out of a concern that they might be disciplined for related violations of drug, alcohol or other university policies. Except in extreme circumstances, victims of sexual misconduct shall not be subject to discipline for related violations of the Student Conduct Code.

Information Regarding University, Criminal and Civil Consequences of Committing Acts of Sexual Violence

Individuals alleged to have committed sexual misconduct may face criminal prosecution by law enforcement and may incur penalties as a result of civil litigation. In addition, students may face discipline at the university, up to and including suspension or expulsion and withholding of their degrees. Employees may face sanctions up to and including suspension, demotion or dismissal from employment, pursuant to established CSU policies and provisions of applicable collective bargaining unit agreements.

Students who are found responsible by the university with gender discrimination, harassment or sexual misconduct will be subject to discipline, pursuant to The Interim CSU Nondiscrimination Policy-Student Respondent Procedures (https://calstate.policystat.com/policy/17650729/latest/) for complaints made against a student and the California State University and Student Conduct Procedures (see the Student Conduct Procedures Policy (https://calstate.policystat.com/policy/8453518/latest/), revised on August 14, 2020, or any successor policy) and will be subject to appropriate sanctions. In addition, during any investigation, the university may implement interim measures in order to maintain a safe and non-discriminatory educational environment. Such measures may include but not be limited to: immediate interim suspension from the university; a required move from university-owned or affiliated housing;

adjustments to course schedule; and/or prohibition from contact with parties involved in the alleged incident.

Confidentiality and Sexual Misconduct, Dating Violence, Domestic Violence and Stalking

The university encourages victims of sexual misconduct, dating violence, domestic violence or stalking to talk to someone about what happened – so they can get the support they need, and so the university can respond appropriately.

Privileged and Confidential Communications

Physicians, Psychotherapists, Professional Licensed Counselors, Licensed Clinical Social Workers, and Clergy – Physicians, psychotherapists, professional, licensed counselors, licensed clinical social workers, and clergy who work or volunteer on or off campus, acting solely in those roles or capacities as part of their employment, and who provide medical or mental health treatment or counseling (and those who act under their supervision, including all individuals who work or volunteer in their centers and offices) may not report any information about an incident of sexual misconduct to anyone else at the university, including the Title IX Coordinator, without the victim's consent. A victim can seek assistance and support from physicians, psychotherapists, professional, licensed counselors, licensed clinical social workers and clergy without triggering a university investigation that could reveal the victim's identity or the fact of the victim's disclosure. However, see limited exceptions below regarding when health care practitioners must report to local law enforcement agencies. Health care practitioners should explain these limited exceptions to victims, if applicable.

Sexual Assault and Domestic Violence Counselors and Advocates – Sexual assault and domestic violence counselors and advocates who work or volunteer on or off campus in sexual assault centers, victim advocacy offices, women's centers and health centers (including those who act in that role under their supervision, along with non-professional counselors or advocates who work or volunteer in sexual assault centers, victim advocacy offices, women's centers, gender equity centers, or health centers), may talk to a victim without revealing any information about the victim and the incident of sexual misconduct to anyone else at the university, including the Title IX Coordinator, without the victim's consent. A victim can seek assistance and support from these counselors and advocates without triggering a university investigation that could reveal his/her identity or that a victim disclosed an incident to them. However, see limited exceptions below regarding when sexual assault and domestic violence counselors and advocates must report to local law enforcement agencies. Counselors and advocates should explain these limited exceptions to victims, if applicable.

The university will be unable to conduct an investigation into a particular incident or pursue disciplinary action against a perpetrator if a victim chooses to:

1. Speak only to a physician, professional licensed counselor, licensed clinical social worker, clergy member, sexual assault counselor, domestic violence counselor or advocate; and
2. Maintain complete confidentiality. Even so, these individuals will assist victims in receiving other necessary protection and support, such as victim advocacy, disability services, medical/health or mental health services, or legal services, and will advise victims regarding their right to file a Title IX complaint with the university and a separate complaint with local or university police.

If a victim insists on confidentiality, such professionals, counselors and advocates will likely not be able to assist the victim with: university academic support or accommodations; changes to university-based living or working schedules; or adjustments to course schedules. A victim who at first requests confidentiality may later decide to file a complaint with the university or report the incident to the police, and thus have the incident fully investigated. These counselors and advocates can provide victims with that assistance if requested by the victim. These counselors and advocates will also explain that Title IX includes protections against retaliation, and that the university will not only take steps to prevent retaliation when it knows or reasonably should know of possible retaliation, but will also take strong responsive action if retaliation occurs.

Exceptions

Under California law, any health practitioner employed in a health facility, clinic, physician's office, or local or state public health department or clinic is required to make a report to local law enforcement if the health practitioner provides medical services for a physical condition to a patient/victim who the health practitioner knows or reasonably suspects is suffering from:

1. A wound or physical injury inflicted by a firearm; or
2. Any wound or other physical injury inflicted upon a victim where the injury is the result of assaultive or abusive conduct (including sexual misconduct, domestic violence, and dating violence).

This exception does not apply to sexual assault and domestic violence counselors and advocates. Health care practitioners should explain this limited exception to victims, if applicable.

Additionally, under California law, all professionals described above (physicians, psychotherapists, professional counselors, licensed clinical social workers, clergy, and sexual assault and domestic violence counselors and advocates) are mandatory child abuse and neglect reporters, and are required to report incidents involving victims under 18 years of age to local law enforcement. These professionals will explain this limited exception to victims, if applicable.

Finally, some or all of these professionals may also have reporting obligations under California law to:

1. Local law enforcement in cases involving threats of immediate or imminent harm to self or others where disclosure of the information is necessary to prevent the threatened danger; or
2. To the court if compelled by court order or subpoena in a criminal proceeding related to the sexual misconduct, dating or domestic violence, or stalking incident.

If applicable, these professionals will explain this limited exception to victims.

Reporting to University or Local Police

If a victim reports to local or university police about sexual misconduct crimes, the police are required to notify victims that their names will become a matter of public record unless confidentiality is requested. If a victim requests that their identity be kept confidential, their name will not become a matter of public record. However, even if the victim requests confidentiality of identity, the University Police should specifically ask the victim if the victim's name can be provided to the Title IX Office so that the Title IX Coordinator can contact the victim to discuss supportive measures that can be offered. If a victim gives consent to law enforcement to provide their name to the Title IX Coordinator, their name will not become a matter of public record. Even if a victim does not give the police

permission to provide their name to the Title IX Coordinator, University police will report the facts of the incident itself to the Title IX Coordinator being sure not to reveal to the Title IX Coordinator victim names/identities or compromise their own criminal investigation. The university is required by the federal Clery Act to report certain types of crimes (including certain sex offenses) in statistical reports. However, while the university will report the type of incident in the annual crime statistics report known as the Annual Security Report, victim names/identities will not be revealed.

Reporting to the Title IX Coordinator and Other University Employees

Most university employees have a duty to report incidents of sexual misconduct when they are on notice of it. When a victim tells the Title IX Coordinator or another university employee about an incident of sexual misconduct, the victim has the right to expect the university to take immediate and appropriate steps to investigate what happened and to resolve the matter promptly and equitably. In all cases, the university strongly encourages victims to report incidents of sexual misconduct directly to the university Title IX Coordinator. As detailed above, in the "Privileged and Confidential Communications" section of this policy, all university employees except physicians, licensed professional counselors, licensed clinical social workers, sexual assault counselors and advocates, must report to the Title IX Coordinator all relevant details about any incidents of sexual misconduct of which they become aware. The university will need to determine what happened – and will need to know the names of the victim(s) and the perpetrator(s), any witnesses, and any other relevant facts, including the date, time and specific location of the incident.

To the extent possible, information reported to the Title IX Coordinator or other university employees will be shared only with individuals responsible for handling the university's response to the incident. The university will protect the privacy of individuals involved in a sexual misconduct violence incident except as otherwise required by law or university policy. A report of sexual misconduct may result in the gathering of extremely sensitive information about individuals in the university community. While such information is considered confidential, university policy regarding access to public records and disclosure of personal information may require disclosure of certain information concerning a report of sexual misconduct. In such cases, efforts will be made to redact the records, as appropriate, in order to protect the victim's identity and privacy and the privacy of other involved individuals. Except as detailed in the section on "Privileged and Confidential Communications" above, no university employee, including the Title IX Coordinator, should disclose the victim's identity to the police without the victim's consent or unless the victim has also reported the incident to the police.

If a victim requests of the Title IX Coordinator or another university employee that their identity remain completely confidential, the Title IX Coordinator will explain that the university cannot always honor that request or guarantee complete confidentiality. If a victim wishes to remain confidential or request that no investigation be conducted or disciplinary action taken, the university must weigh that request against the university's obligation to provide a safe, non-discriminatory environment for all students, employees, and third parties, including the victim. Under those circumstances, the Title IX Coordinator will determine whether the victim's request for complete confidentiality and/or no investigation can be honored under the facts and circumstances of the particular case, including whether the university has a legal obligation to report the incident, conduct an investigation or take other appropriate steps. Without information about a victim's identity, the university's ability to meaningfully investigate the incident and pursue disciplinary action against the perpetrator may be severely limited. See the Interim CSU Nondiscrimination Policy (https://www.calstate.edu/csu-system/administration/systemwide-human-resources/civil-rights/titleix/Pages/policies.aspx) (or any successor policy) for further details around confidential reporting, and other related matters.

Additional Resources

CSUSB's sexual misconduct violence prevention and education statement, which includes facts and myths about sexual misconduct violence, at https://www.csusb.edu/institutional-equity-compliance (https://www.csusb.edu/institutional-equity-compliance/).

U.S. Department of Education, regional office
Office for Civil Rights
810 3rd Avenue, Suite 750, Seattle, WA 98104-1627
TDD (877) 8339
ocrcivilrights@seattle.gov

U.S. Department of Education, national headquarters
Office for Civil Rights (800) 421-3481
TDD (800) 877-8339
OCR@ed.gov

VALORUS
1215 K. Street, Suite 1850
Esquire Plaza
Sacramento, CA 95814
(916) 446-2520

VALORUS Website (https://www.valor.us/)

1. Domestic and Family Violence, Office of Justice Programs, United States Department of Justice: Intimate Partner Violence
2. National Institute of Justice: Intimate Partner Violence, Office of Justice Programs, United States Department of Justice
3. National Domestic Violence Hotline Website and phone number 1-800-799-SAFE (7233)
4. Office of Violence against Women, United States Department of Justice
5. Centers for Disease Control and Prevention: Intimate Partner Violence

Institutional Equity & Compliance Office

The office of Institutional Equity & Compliance oversees the Title IX, Whistleblower and DHR (Discriminations Harassments & Retaliation) responsibilities on campus, including *Training to End Sexual Violence*, which is mandatory for every student once per academic year during the fall term. Title IX is a federal civil rights law which serves as a powerful tool to combat campus Sex-based Harassment (including Sexual Harassment, Sexual Violence and Gender-based Harassment), Harassment and Bullying, Pregnant or Parenting Students, Athletic Opportunities and Benefits, and Retaliation.

Training to End Sexual Violence

All California State University, San Bernardino students are required to complete mandatory *End Sexual Violence Training*--one training per academic year, during the fall term. Federal and state laws and the CSU Chancellor's Office Executive Orders mandate this yearly training for all students (including *graduating* students, *online* students and *employees who are also enrolled* students).

Completing one of two options before a deadline each year (updated on our website, on the Training (https://www.csusb.edu/institutional-equity-compliance/training/) page) will ensure a smooth registration process for spring term (or subsequent terms). After the deadline, a registration hold will be placed on the student's account until the training is completed. Choices include:

1. **Attend a qualifying In-Person Event** -- for the current offerings and more information, visit our Events (https://www.csusb.edu/institutional-equity-compliance/outreach-and-education-events/) page. Look for the "ESVT Qualifying Event" and "Let's Get it Done" approval stamp of the events that are sanctioned.
2. **Complete the Online Training Program**, "Not Anymore" -- for login instructions and more information, visit the Not Anymore (https://www.csusb.edu/institutional-equity-compliance/) page. CSUSB has partnered with vendor, Student Success™, for a secure online option.

Status Link

There is a link in myCoyote to check the status of training for each academic year. From myCoyote Home, go to "My Status" and then click "Training Status." Look under the "Academic Year" and the "Training Completed Date" columns to review current and past records. If the current academic year is NOT visible, training has NOT been completed. This training is mandatory once per academic year during the fall term.

Additional Questions

Please email i (titleix@csusb.edu)ec@csusb.edu (iec@csusb.eu).

Campus Services

- CSUSB's Policies (https://www.csusb.edu/policies/) website, for students
- Campus Advocate (https://www.csusb.edu/survivor-advocacy-services/), (909) 537-5040
- Counseling and Psychological Services (https://www.csusb.edu/caps/), 24-Hour Hotline (909) 537-5040; for life threatening situations, **call 911**
- Student Health Center (http://www.csusb.edu/student-health-center/), (909) 537-5241
- Women's Resource Center (https://www.csusb.edu/smsu/resources/womens-resource-center/), (909) 537-7203
- Queer and Transgender Resource Center (https://www.csusb.edu/smsu/resources/queer-and-transgender-resource-center/), (909) 537-5963
- University Ombuds Services (https://www.csusb.edu/ombuds/), (909) 537-5635
- University Police (https://www.csusb.edu/police/), 24-Hour (909) 537-7777; Anonymous Hotline (909) 537-7786

Off-Campus Services

- California Coalition Against Sexual Assault (https://www.cpedv.org/member-service/california-coalition-against-sexual-assault/)
    - Domestic and Family Violence, Office of Justice Programs, United States Department of Justice: Intimate Partner Violence (https://ovc.ncjrs.gov/topic.aspx?topicid=27)
    - National Institute of Justice: Intimate Partner Violence, Office of Justice Programs, United States Department of Justice (http://www.nij.gov/topics/crime/intimate-partner-violence/Pages/welcome.aspx)
    - National Domestic Violence Hotline Website (https://www.thehotline.org/) and phone number 1-800-799-SAFE (7233)
    - Office of Violence against Women, United States Department of Justice (http://www.justice.gov/ovw/)
    - Centers for Disease Control and Prevention: Intimate Partner Violence (https://www.cdc.gov/intimate-partner-violence/about/)
- San Bernardino Police Department, (909) 384-5742; Non-Emergency 24-Hour (909) 383-5311
- Palm Desert Police Department, (760) 836-1600
- Partners Against Violence (https://www.partnersagainstviolence.org/), 24-Hour Crisis Hotlines (800) 656-4673 or (909) 885-8884; Main Office: 444 North Arrowhead Avenue, Suite 101, San Bernardino, CA 92401-1221, (909) 885-8884; Coachella Valley/Indio (760) 568-9071; Morongo Basin/Yucca Valley (760) 369-3353; Redlands (909) 335-8777; Victorville (760) 952-0041; Yucaipa (909) 918-2314
- Riverside County Coalition for Alternatives to Domestic Violence (ADV) (https://aging.networkofcare.org/riverside/services/agency/?pid=RiversideCountyCoalitionforAlternativestoDomesticViolenceShelter_38_1_0) domestic violence help, protective order assistance, counseling, outreach, shelter; Crisis Line—Riverside city & out of the county (951) 683-0829; remainder of Riverside county (800) 339-SAFE (7233)
- House of Ruth (http://houseofruthinc.org), individual/group counseling, phone support, legal advocate, shelter for women and children, domestic violence counseling, food, English/Spanish; 24-Hour Crisis Hotline (877) 988-5559
- Rape Abuse & Incest National Network (https://rainn.org/) (RAINN), 24-Hour Help (800) 656-HOPE (4673)
- Riverside Area Rape Crisis Center (https://rarcc.org/) (RARCC), 1845 Chicago Avenue, Suite A, Riverside, CA 92507; 24-Hour Hotline (951) 686-RAPE (7273) & Toll-Free (866) 686-RAPE (7273)
- Option House (https://www.optionhouseinc.com), temporary domestic violence women's shelters, support/outreach, free support groups, crisis education and self-defense, assistance with protective order paperwork, English/Spanish; 24-Hour Hotline (909) 381-3471
- DOVES of Big Bear Valley (http://www.doves4help.org/), provides women and families domestic violence shelter, individual counseling, support groups (parenting, anger management, women's writing, etc.), legal assistance, protective order help, programs and services for male victims; (909) 866-1546; 24-Hour Hotline (800) 851-7601
- A Better Way Domestic Violence Shelter and Outreach (http://www.abetterwaydomesticviolence.org), 26-bed shelter (90-day maximum stay), TRO (temporary restraining order), outreach programs, opportunity and education support groups, Spanish; Victor Valley, (760) 955-8010, 24-Hour Hotline, Toll-Free (866) 228-2059
- Shelter from the Storm (http://www.shelterfromthestorm.com/), emergency shelter, transitional housing, counseling center, legal clinic, teen dating education; Coachella Valley, (760) 674-0400, 24-Hour Crisis Lines, (760) 328-SAFE (7233) or Toll Free (800) 775-6055
- California Coalition Against Sexual Assault (http://calcasa.org/) (CALCASA) (http://www.calcasa.org/), advocates and supports rape crisis centers on behalf of survivors, system's change, funding needs and policy advocacy; 1215 K. Street, Suite 1850, Sacramento, CA 95814; (916) 446-2520
- National Domestic Violence Hotline (http://www.thehotline.org/), (800) 799-SAFE (7233), TTY For the Deaf (800) 787-3224
- Domestic and Family Violence (https://ovc.ncjrs.gov/topic.aspx?topicid=27), Office of Justice Programs, United States Department of Justice

- National Institute of Justice: Intimate Partner Violence (https://www.nij.gov/topics/crime/intimate-partner-violence/Pages/welcome.aspx), Office of Justice Programs, United States Department of Justice
- Office on Violence against Women (https://www.justice.gov/ovw/), United States Department of Justice
- Defending Childhood (https://www.justice.gov/defendingchildhood/), United States Department of Justice
- Centers for Disease Control and Prevention: Intimate Partner Violence (https://www.cdc.gov/ViolencePrevention/intimatepartnerviolence/)
- Know Your Rights about Title IX (https://www2.ed.gov/about/offices/list/ocr/docs/title-ix-rights-201104.html): Title IX Prohibits Sexual Harassment and Sexual Violence Where You Go to School, Office for Civil Rights, U.S. Department of Education
- Center for Changing our Campus Culture (http://changingourcampus.org/), The White House Task Force to Protect Students from Sexual Assault: Not Alone--Together Against Sexual Assault

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- Department of History (p. 339)
- Department of Political Science (p. 349)
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- Department of Sociology (p. 362)
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College of Arts & Letters

Rueyling Chuang, Dean
Parastou Feizzaringhalam, Associate Dean

University Hall, Room 237
(909) 537-5800 College of Arts & Letters (http://artsletters.csusb.edu/)

Departments

- Art & Design (http://art.csusb.edu/)
- Communication & Media (http://communication.csusb.edu/)
- English (http://english.csusb.edu/)
- Music (http://music.csusb.edu/)
- Philosophy (http://philosophy.csusb.edu/)
- Theatre Arts (http://theatre.csusb.edu/)
- World Languages & Literatures (http://flan.csusb.edu/)
- Liberal Studies Program (http://liberalstudies.csusb.edu/)

Current Faculty

Kelly Dortch, Lecturer in Liberal Studies, Coordinator
M.F.A. 2014, California State University - San Bernardino

Bachelor of Arts

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Minors

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Certificates

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Bachelor of Arts in Liberal Arts

(Program Code: LIBA)

A Bachelor of Arts in Liberal Arts represents a broad, interdisciplinary approach to earning a higher education degree. The Liberal Arts B.A. is designed for students, who might not necessarily desire a career in education, to obtain a multidisciplinary degree that is transferable to many of the needs of the twenty-first century.

All Bachelor of Arts in Liberal Arts students should give special attention to the following points before they begin their course work:

1. Grades in lower division courses (2999 and below) must be a "C-" or better
2. Grades in upper division courses (3000 and above) must be a "C" or better.
3. Some courses can be counted towards multiple requisites so, upon admission and frequently thereafter, be sure to seek consultation from the Liberal Studies Programs Coordinator. Consultation should be obtained at least once a semester.
4. Assessments are a required component of the Bachelor of Arts in Liberal Arts and are found under Culminating Experience. All entering freshmen and transfer students must enroll in CAL 2970 during one of the first two semesters of enrollment at CSUSB. All students must enroll in CAL 5900 and in either CAL 5953 or CAL 3970 in either of their last two semesters before graduation.
5. Please note that students may choose to pursue a second minor and/or a certificate program at CSUSB instead of and as an optional means to fulfill the Focus Field requirement.

All graduating Bachelor of Arts in Liberal Arts students must maintain a grade point average of at least 2.0 ("C").

Degree Requirements (39-52 units)

Total units for graduation: 120

Applied and Acquired Skills, Experience, and Service Requirements (4-17)

Multimodal Approaches to Communication		
One course selected from:		1-4
AH 3210	Visualizing Gender, Performing Identity	
ARAB 1112	Beginning Arabic 2	
ARAB 2111	Arabic Communication	
ARAB 2114	Arabic for Professional Communication	
ARAB 3111	Arab Culture, Media and Identity	
ARAB 3116	Explorations in Arabic Media	
ART 1160	Introduction to Drawing and Life Drawing	
ART 2240	Beginning Imaging and Illustration	
ART 2260	Beginning Photography	
ART 2280	From Teaching Artists to Social Practice: A History	
ART 2290	Beginning Painting	
ART 2320	Beginning Ceramics	
ART 2330	Beginning Glass	
ART 2350	Sculpture I: Introduction to Sculpture	
DES 3001	Innovator's ToolBox - An Introduction to Creative Problem Solving and Design Thinking	
ART 3240	Intermediate Imaging and Illustration	
ART 3260	Intermediate Photography	
ART 3270	Printmaking	
ART 3290	Intermediate Painting	
ART 3320	Intermediate Ceramics	
ART 3330	Intermediate Glass	
AH 1221	Art History Foundations 1	
AH 1222	Art History Foundations 2	
AH 3250	Topics and Themes of Art History and Exhibitions	
ASL 1112	American Sign Language II	
CHIN 1112	College Chinese II	
CHIN 2100	Chinese Culture Through Film	
CHIN 2113	Chinese Calligraphy	
CHIN 4409	Business Chinese	
COMM 1020	Looking at Movies	
COMM 2201	Intercultural Communication	
COMM 2231	Small Group Communication	
COMM 2251	Fundamentals of Interpersonal Communication	
COMM 2393	Practicum in Television Journalism Production: Local Matters	
COMM 2491	Practicum in Strategic Communication: Coyote PR	
COMM 2492	Practicum in Advertising: Coyote Advertising	
COMM 3211	Business and Professional Communication	
COMM 3212	Persuasion	
COMM 3227	Topics in Relational and Organizational Communication	
COMM 3230	Nonverbal Communication	
COMM 3305	Digital Media and Society	
COMM 3335	Visual Communication	
COMM 3372	Publication Design	
COMM 3379	Topics in Journalism	
COMM 3401	Introduction to Strategic Communication	
COMM 3402	Writing for Public Relations	
COMM 3403	Business Literacy for Strategic Communication	
COMM 4102	Ethical Aspects of Communication	
ENG 2400	Writing in the Public Sphere	
ENG 2500	Introduction to Creative Writing Studies	
ENG 3060	Writing as Academic Inquiry	
ENG 3070	Theories of Public and Professional Writing	
ENG 3110	Introduction to Linguistics	
ENG 3210	Language, Thought, and Culture	
ENG 3150	Studies in a Literary Genre	
ENG 3310	Child Language and Literacy Development	

ENG 3320	Second Language Acquisition
ENG 3470	Writing for Performance
ENG 3600	Studies in Writing
ENG 3620	Studies in Rhetoric
ENG 4170	Poetry Writing Workshop
ENG 4180	Fiction Writing Workshop
ENG 5130	Advanced Creative Writing in Specialized Genres
ENG 5430A	Literary Production I
ENG 5430B	Literary Production II
ECON 3900	Writing in Economics
FREN 1112	Beginning French 2
FREN 2112	Introduction to French Media
FREN 3112	From Cannes to Cameroon: Francophone Cinema and Culture
HSCI 3208	Introduction to Professional Development and Communication
HSCI 4205	Advanced Professional Writing in Public Health
JAPN 1112	Beginning Japanese II
JAPN 2100	Japanese Calligraphy
JAPN 3100	Analysis of Japanese Culture through Film
JAPN 3111	Third Year College Japanese A
JAPN 3112	Third Year College Japanese B
JAPN 3113	Business Japanese
JAPN 3900	Voices & Visions from the World of Japanese Anime and Manga
KOR 1112	Beginning Korean 2
MKTG 4200	Marketing Communications
MGMT 3500	Applied Communication
MUS 1969	LGBTQ+ Influences in Music
MUS 2080	Vocal Music Literature
MUS 2090	Instrumental Music Literature
MUS 2266	Creating Digital Media Using Personal Electronic Technology
MUS 3110	Performance Literature
MUS 3705	Music for Elementary Classroom Teachers
MUS 4100	Music in the Elementary Schools
MUS 4110	Teaching Music in Secondary Schools
MUS 4170	Composition for Films and Television
PHIL 2100	Critical Thinking Through Symbolic Logic
PHIL 3580	Philosophy of Language
PHIL 3590	Topics in Metaphysics and Knowledge
SPAN 1112	College Spanish 2
SPAN 4401	Spanish for the Professions
SPAN 4411	Special Topics in Spanish Language Cinema and/or Theatre
TA 1141	Improvisation
TA 2612	Oral Interpretation of Literature
TA 2640	Acting for All Majors
TA 3210	Voice and Movement
TA 3310	Graphic Communication for Theatrical Design
TA 3320	Scenic Design
TA 3330	Costume Design
TA 3340	Sound Design
TA 3350	Lighting Design
TA 3647	Playwriting
Digital Literacies: Acquisition and Use	
One course selected from:	1-4
ART 1130	3D Foundation: Form, Space & Time
ART 1140	Creative Technology for Artists
ART 2240	Beginning Imaging and Illustration
ART 2260	Beginning Photography
ART 3430	Digital Fabrication: Functional Art/ Object Design 1
CSE 1100	Critical Thinking Through Computer Programming
CSE 1110L	Data Analysis Laboratory Using Spreadsheets
CSE 1120L	Scientific Simulation
CSE 1250	Programming Basics
CSE 1300 & 1300L	Introduction to Data Science and Introduction to Data Science Lab
CSE 2010	Computer Science I
CSE 2020	Computer Science II
CSE 4050	Web Application Development
COMM 2391	Practicum in Multimedia Journalism: Coyote Chronicle
COMM 2392	Practicum in Digital Audio and Radio
COMM 2393	Practicum in Television Journalism Production: Local Matters
COMM 3305	Digital Media and Society
COMM 3332	Movies in the Digital Age
COMM 3351	Introduction to Digital Video Editing
COMM 3353	Digital Video Field Production
COMM 3359	Topics in Digital Production
COMM 3361	Digital Audio and Radio Production
COMM 3371	Multimedia Journalism
ECTS 5190	Instructional Technology for Career and Technical Educators
ECTS 5200	Curriculum Development for Career and Technical Programs
ECTS 5410	Topics in Career and technical Education
ENG 5120	Literary and Cultural Criticism in the Public Sphere
GEOG 2250	Introduction to Geographic Information Systems and Cartography
GEOG 4850	Web GIS
HSCI 2202	Software Applications in the Health Sciences
IST 1110	Introduction to Information Technology
IST 2110	Information Technology

MUS 2266	Creating Digital Media Using Personal Electronic Technology
MUS 2660	Electronic Music Production
MUS 2670	Sound Recording
Research Techniques and Methodologies:	
One course selected from:	1-4
ADMN 2100	Applied Business Statistics
AH 1103	Art History Methodologies 1
AH 1104	Art History Methodologies 2
AH 4250	Art History Seminar
ANTH 4601L	Methods in Sociocultural Anthropology
ANTH 4603L	Museum Research and Exhibit Development
BIOL 5010	Ethics in Biological Research
COMM 2391	Practicum in Multimedia Journalism: Coyote Chronicle
COMM 2392	Practicum in Digital Audio and Radio
COMM 2393	Practicum in Television Journalism Production: Local Matters
COMM 3333	Film Analysis
COMM 4101	Communication Research Methodology
COMM 4592	Advanced Practicum in Communication Research
CJUS 3311	Research Methods in Criminal Justice
CJUS 3312	Statistics in Criminal Justice
ENG 3010	Analysis of Poetry and Drama
ENG 3030	Analysis of Fiction and Nonfiction Prose
ENG 3061	Science Writing as Academic Inquiry
ENG 3400	Analysis of Environmental Discourse
ENG 3610	Studies in Literacy
ENG 5100	Teaching English in the Secondary Schools
ENG 5110	Creative Writing in the Secondary Classroom
ENG 5110B	Creative Writing in the Secondary Classroom B
ECON 3500	Tools of Economic Analysis
ECON 4300	Econometrics
ECON 4400	Quantitative Methods in Economics
ECON 4525	Mixed Methods Research
ECON 4550	Advanced Tools of Economic Analysis
ES 3000	Research Methods in Ethnic Studies
GEOG 3018	Geographic Statistics and Research Methods
GEOG 4860	GIS and Socio-Economic Applications
HIST 3012	Historical Archaeology
HIST 3100	Research Opportunity in History
HIST 3180	Introduction to Cultural Resource Management
HSCI 3205	Biostatistics for Health Science
HSCI 3607 & 3607L	Nutrition Counseling, Assessment, and Research Applications and Nutrition Counseling, Assessment, and Research Applications Lab
HSCI 4068	Research Methodology in Health Science
HSCI 4080	Leadership in Health Services Administration
IST 3050	Enterprise Resource Planning
IST 3500	Problem Solving and Decision Making
KINE 3510	Research Seminar in Kinesiology
KINE 3700	Statistics in Kinesiology
MATH 2265	Statistics with Applications
MKTG 3160	Research Methods
MKTG 4160	Marketing Research
NSCI 3010	Introduction to STEM and STEM Research
PHIL 3100	Predicate Logic
PHIL 3110	Alternative Logics
PHIL 3330	Social and Political Philosophy
PHIL 3350	Philosophy of Law
PHIL 3355	Jurisprudence
PHIL 3410	Philosophy of Religion
PHIL 3450	Asian Philosophy
PHIL 3510	Theory of Knowledge
PHIL 3520	Philosophy of Science
PHIL 3550	Metaphysics
PHIL 3560	Philosophy of Logic and Mathematics
PSYC 2210	Psychological Statistics
PSYC 2211	Introduction to Psychological Research
PSYC 2220	Brain and Behavior
SOC 3020	Introduction to Community-Based Research
SOC 3070	Quantitative Analysis & Survey Research
SPAN 4412	Special Topics in Spanish Language Cinema and/or Theatre Activity
TA 3602	Dramatic Analysis and Playwriting for Teachers
TA 3730	Dance Notation
TA 4664	Playful Plays: the Literature of Theatre for and With Young People
Experiential/Service Learning and Community Engagement	
One course selected from:	1-5
AAED 2431	Art in the Classroom
ART 3000	Art and Activism
AAED 4434	Art and Restorative Justice
AAED 3432	Critical Theories in Art Education
ART 3520	Socially-engaged Art
ART 3710	Video Art
ART 3780	Special Topics in Art
ART 4450	Arts in Action: Visual Art
AAED 3431	Art and Human Development
AAED 4433	Leadership and Engagement in the Arts
AAED 4432	Community-based Art Practicum
CAL 1110	Reacting to the Past: Humanities Perspectives
CAL 5751	Internship in Humanities

CAL 5752	Internship in Humanities
CAL 5753	Internship in Humanities
CAL 5754	Internship in Humanities
CAL 5755	Internship in Humanities
CAL 5763	International Experience: Latin American Studies
CAL 5783	International Experience: Asian Studies
CAL 5823	International Experience: European Studies
CAL 5843	International Experience: African Studies
CAL 5951	Independent Study in the Humanities
CAL 5952	Independent Study in the Humanities
CAL 5953	Independent Study in the Humanities
CAL 5954	Independent Study in the Humanities
CAL 5955	Independent Study in the Humanities
COMM 2293	Practicum in Intercollegiate Forensics: Coyote Debate
COMM 2301	Newswriting and Reporting
COMM 2351	Television Studio Production
COMM 2391	Practicum in Multimedia Journalism: Coyote Chronicle
COMM 2392	Practicum in Digital Audio and Radio
COMM 2393	Practicum in Television Journalism Production: Local Matters
COMM 2592	Practicum in Communication Research
COMM 2593	Service Learning in Communication
COMM 3101	Communication, Self, and Others
COMM 3102	Media, Culture, and Society
COMM 3319	Topics in Media Studies
COMM 3331	The Development of Motion Pictures
ECON 5601	Service-Learning in Political Economy
ENG 5010	Media Performance Practicum
ENG 5020	English Study Abroad
ENG 5030	English Practicum
ENG 5140	Community-Based Writing
FREN 3701	Study Abroad
FREN 3702	Study Abroad
FREN 3703	Study Abroad
FREN 3704	Study Abroad
GEOG 5150	Global Governance and the United Nations System
GEOG 5755	Model United Nations Practicum (Fall Semester MUN Team)
GEOG 5756	Model United Nations Practicum (Spring Semester MUN Team)
JAPN 3701	Study Abroad in Japan
JAPN 3702	Study Abroad in Japan
JAPN 3703	Study Abroad in Japan
KINE 3011	Service Learning in Kinesiology
NSCI 1110	Reacting to the Past: Natural Sciences Perspectives
SPAN 4412	Special Topics in Spanish Language Cinema and/or Theatre Activity
TA 3122	Performance Practicum
TA 3123	Performance Practicum
TA 3131	Technical Practicum
TA 3132	Technical Practicum
TA 3410	Theatre in the Classroom
TA 3720	World Dance Traditions
TA 4410	Drama in Education
TA 4420	Touring Practicum
TA 4430	Puppetry
TA 4440	Creative Movement in the Classroom
TA 4450	Arts in Action: Theatre
TA 4451	Arts in Action: Dance
Introductory Experience (3)	
CAL 2970 Liberal Studies: Introduction and Assessment Preparation	3
Required Minor Field within the College of Arts and Letters (18)	
Students must complete one minor offered through the College of Arts and Letters. Minors vary in size and range beginning at 18 units in a single discipline. Minor exceptions must be approved by Liberal Studies Programs Coordinator.	18
Culminating Experience (3)	
CAL 5900 Liberal Studies and Liberal Arts Senior Assessment and Writing Workshop	
To be taken during one of the last two semesters before graduation.	
CAL 5953 Independent Study in the Humanities	3
or CAL 3970 Gateway to Liberal Studies	
Focus Field (9) [1]	**9**
Students must complete nine units of course work from any single discipline other than the discipline chosen for the required minor field. A minimum of six units must be upper-division.	
Total Units	**37-50**

[1] Please note that students may choose to pursue a second minor and/or a certificate program at CSUSB as an optional means to fulfill the Focus Field requirement.

Pathway to Graduation within 120 Semester Units

In order to complete this degree within 120 units, please consult the Liberal Studies Programs Coordinator to know which courses fulfill multiple graduation requirements.

Minor in Asian Studies

Asian Studies Minor is a cohesive and interdisciplinary program that draws on a range of courses focusing on Asian regions and cultures.

Admission to the Program

1. Students must meet general university admission requirements.
2. Students in all majors are eligible to participate in this program.

Requirements for a minor in Asian Studies (18 units)

Core Requirements (6)		
Six units of upper division courses chosen from the following with at least three units being a seminar course.		6
Seminar Courses:		
ANTH 3703R	Anthropology of Asia: Cultures, Communities, and Migration	
CAL 3888	Asian Humanities in a Globalized World	
FIN 3555	Business and Asian Culture	
HIST 4400	History of Modern East Asia	
PHIL 3450	Asian Philosophy	
Experiential Courses		
CAL 5753	Internship in Humanities	
CAL 5783	International Experience: Asian Studies	
CAL 5953	Independent Study in the Humanities	
Electives (12)		
Twelve units from the following courses (may not receive credit as an elective if taken as a core course) with at least 3 units from each of the categories listed below:		12
Group A: Arts and Humanities		
AH 3310	Asian Contemporary Art	
CAL 3888	Asian Humanities in a Globalized World	
CHIN 1112	College Chinese II	
CHIN 2900	Chinese Literature in Translation	
ENG 3250	Asian American Literature	
JAPN 1112	Beginning Japanese II	
JAPN 2900	Japanese Literature in English	
JAPN 3900	Voices & Visions from the World of Japanese Anime and Manga	
KOR 1112	Beginning Korean 2	
KOR 2900	Korean Literature in English	
PHIL 3450	Asian Philosophy	
Group B: Business and Social Behavioral Sciences		
ANTH 3703R	Anthropology of Asia: Cultures, Communities, and Migration	
FIN 3555	Business and Asian Culture	
HIST 4260	Ancient and Early Imperial China	
HIST 4280	Medieval China	
HIST 4290	Modern China I, 1644-1911	
HIST 4310	Modern China II, 1911-Present	
HIST 4330	Modern Chinese History in Fiction and Film	
HIST 4400	History of Modern East Asia	
HIST 4560	Mughal India and the Early Modern World	
HIST 4570	Modern India at the Crossroads of Empire	
HIST 4580	Gandhi: Life and Legacy	
HIST 4590	Media Cultures of the Indian Subcontinent	
PSCI 3050	East Asian Politics	
Total Units		**18**

Minor in Disability Studies

The Minor in Disability Studies provides an introduction to the fast-growing field of Disability Studies, an interdisciplinary field that centers the knowledge, contributions, experiences, histories, and cultures of people with disabilities. The minor can prepare students for careers in medicine, social work, public service, and teaching, in which they may serve people with disabilities, but more importantly, it encourages all students to celebrate disabled joy, creation, and community while promoting social justice for people with disabilities. The Minor's requirements make it easy to integrate with a student's General Education courses or the student's major.

Minor Requirements (18 units)

Nine units chosen from the following:		9
COMM 2451	Communicating Disability Studies	
ENG 3280	Disability Literature	
HIST 3791	Disability History	
PHIL 3026	Philosophy of Disability	
Electives (9)		
Nine units chosen from the following. One class may be an internship, practicum, or service course.		9
ASL 1111	American Sign Language I	
ASL 1112	American Sign Language II	
ENG 1210	Diversity Literature and Social Justice	
HSCI 2200	Introduction to Public Health	
KINE 3050	Disability, Society and Physical Activity	
KINE 3100	Introduction to Adapted Physical Activity	
HIST 3790	The History of Madness	
PSYC 3340	Stereotyping, Prejudice and Discrimination	
SOC 4530	Citizenship, Status, and Inequality	
ESPE 3350	Introduction to Special Populations for General Education Teachers	
Internships, Practicums, and Service Learning (0)		
To apply these courses toward the minor, the topic is restricted to those related to disability studies. Talk to your advisor in your major to find out more. Possible 3-unit electives for this experience include:		
ANTH 5753	Internship in Anthropology	
ART 5753	Internship in Art	
CJUS 5753	Internship in Criminal Justice	
COMM 5793	Internship in Communication	
DES 5590	Design Internship	
ENG 5753	Internship in English	
HIST 5750	Internship in History	
HSCI 5754	Internship in Environmental Health	
MUS 4700	Music Therapy Practicum	
PHIL 5753	Internship in Philosophy	
PSCI 5753	Internship in Political Science	
PSYC 5575	Internship	
SOC 5753	Internship and Practicum	

SPAN 4443	Internship Project	
SSCI 5750	Social Science Internship	
TA 5753	Internship in Theatre Arts III	
Community Service Courses (0)		
This program encourages outreach and community activism. Because issues around disability identity, rights, and access reach across many disciplines, you can apply the concepts from the disability studies minor to a practicum or internship experience in your major.		
COMM 2593	Service Learning in Communication	
ENG 3993	Community Service Project	
HIST 3990C	Community-Based Project	
HSCI 5213	Community Service Project in Public Health	
WLL 3893	Community Service Project	
Total Units		**18**

Minor in Entrepreneurship in the Arts

This interdisciplinary Entrepreneurship in the Arts minor will service all of the College of Arts and Letters students who are seeking to blend their primary area of study in arts and humanities with entrepreneurship. Specifically, the goal of this minor is to educate students as to the nature and accessibility of entrepreneurship, to celebrate, explore, and capitalize on their inherent creativity as students of the arts and humanities, and to teach them the practical entrepreneurial skill sets that they will need to be able to blend their area of expertise with entrepreneurship as they look toward further developing their careers post-graduation.

Requirements for a minor in Entrepreneurship in the Arts (18 units)

CAL 4000	The Artist Entrepreneur: Innovation and Leadership in the Arts	3
CAL 4100	The Artist Entrepreneur's Toolkit	3
CAL 4200	Venture Ideation, Analysis, and Development in the Arts	3
CAL 4300	The Artist Entrepreneur Launch	3
Six units chosen in consultation with the Entrepreneurship in the Arts minor program advisor, from coursework from the following departments: Art, Communication Studies, English, Entrepreneurship, Music, Philosophy, Theatre Arts, World Languages		6
Total Units		**18**

In addition to the grade point average requirements stated in Program Requirements for a Bachelor's Degree, students must earn a grade of "C" (2.0) or better in all courses required to fulfill the Minor in Entrepreneurship in the Arts.

Minor in Latin American Studies

Admission to the Program

1. Students must meet general university admission requirements;
2. Students should discuss this minor with their academic advisors. All majors are eligible to participate in this minor.
3. Students must complete SPAN 1112 or PORT 1112 prior to beginning the program.

Requirements for Graduation

1. Minors can only be granted for the same term in which students graduate;
2. CSUSB will not consider for transfer credit coursework from an institution that will not accept that coursework in its own degree program.

Requirements for a minor in Latin American Studies (18 units)*

Introductory course (3)		
LAS 2000	Introduction to Latin American Studies (Core course)	3
Core courses (choose 3 courses) (9)		**9**
AH 3350	Contemporary Art and Culture of the Americas	
SPAN 3900	Voices & Visions from the Hispanic World	
SPAN 3309	Cultures of Spanish America	
PSCI 3060	Latin American Politics	
PHIL 3320	Latin American Philosophy	
SOC 4420	The Latino Experience in the U.S.	
ANTH 3701R	Cultures of Mexico and Central America	
ANTH 3702R	Anthropology of South America	
GEOG 4055	US-Mexico Border Region	
HIST 3900	History of Modern Mexico	
HIST 4650	Modern Central America	
HIST 4700	Modern Latin America	
Elective courses (choose 2 courses) (6)		**6**
SPAN 2111	Intermediate Spanish Ist. Semester	
SPAN 2112	Intermediate Spanish 2nd. Semester	
SPAN 2251	Intermediate Healthcare Spanish I	
SPAN 2252	Intermediate Healthcare Spanish II	
SPAN 3051	Culture, Health, and Food in Latin America	
SPAN 2261	Intermediate Criminal Justice Spanish I	
SPAN 2262	Intermediate Criminal Justice Spanish II	
SPAN 3061	Criminal Justice and Cultures of Spain and Latin America	
PSCI 5400	Seminar in Comparative Politics	
PSCI 5920	Seminar in Government	
SOC 1100	Latino Communities, Wellness, and Life Skills	
SOC 3420	The Latino Family	
SOC 4530	Citizenship, Status, and Inequality	

SOC 4510	Sociology of Migration
SOC 5250	Indian Nations and Native America
SOC 5450	Indigenous Peoples
GEOG 4060	Emerging World Regions
HSCI 4212	Topics about Special Populations
HSCI 4210	Cultural Competency
HIST 4660	Foreign Relations of Latin America
HIST 4670	Latin American History Through Film
HIST 4690	Colonial Latin America
COMM 4302	Latinx, Media, and Cultures
TA 3720	World Dance Traditions
TA 4663	Dramatic Literature of Identity
ADMN 5955	Independent Study
MGMT 4050	Managing Across Borders
MKTG 4700	International Marketing
PA 5900	Special Topics in Public Administration
Total Units	**18**

* **Note**: Students may not receive credit for more than 2 courses per Department and more than 4 courses per College.

** **Note**: Spanish courses are taught in Spanish.

Foreign Language Requirement for Spanish or Portuguese

The following rules apply to challenging a language course for credit in this minor:

1. Only courses at the 1112-level or higher may be challenged.
2. Students whose language of instruction in secondary school was Spanish or Portuguese may satisfy this category by submitting official academic transcripts showing that either language was, indeed, the medium of instruction in the school from which they graduated.
3. Providing documentation of significant foreign language experience such as the successful completion of two years of Peace Corps experience in a Spanish- or Portuguese-speaking country.
4. Results from Spanish AP exams may satisfy this requirement.

1.

Minor in Immersive Storytelling, Design, & Innovative Marketing Communication

The art of the story is evolving as media becomes more participatory and more immersive. Creators must utilize immersive technologies like mixed and virtual reality, 360-degree technology, and video games to excel in developing and marketing their ideas, products and services. This 15-unit minor prepares any major to become an adept creator of immersive stories. Students will synthesize the disciplines of theater, design, visual art, creative writing, computer science, data science, marketing, business, and communications, into concepts of storytelling. Then, through four courses and a capstone project, students will merge their ideas with creative technology platforms to build a portfolio of immersive work, launching them into this dynamic field.

Requirements (15 units)

CSE 1300	Introduction to Data Science	3
CAL 3000	Foundations and Theoretical Concepts of Immersive Storytelling and Emerging Technologies	3
CAL 3010	Extended Reality, Storytelling, and World Building	3
CAL 3020	Story-driven Game Design	3
CAL 3030	Immersive Storytelling, Product Design, and Integrated Marketing Communication	3
Total Units		**15**

Certificate in Asian Studies

The certificate in Asian Studies is a cohesive and interdisciplinary program that draws on a range of courses focusing on Asian regions and cultures. The certificate in Asian Studies consists of 12 units.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (12 units)

Core Requirements (3)		
Three units chosen from:		3
ANTH 3703R	Anthropology of Asia: Cultures, Communities, and Migration	
CAL 3888	Asian Humanities in a Globalized World	
FIN 3555	Business and Asian Culture	
HIST 4400	History of Modern East Asia	
PHIL 3450	Asian Philosophy	
Elective Requirements (9)		
Nine units from the following courses (may not receive credit as an elective if taken as a core course):		9
AH 3310	Asian Contemporary Art	
CAL 3888	Asian Humanities in a Globalized World	
CAL 5753	Internship in Humanities	
CAL 5953	Independent Study in the Humanities	
CAL 5783	International Experience: Asian Studies	
CHIN 1112	College Chinese II	
CHIN 2900	Chinese Literature in Translation	
ENG 3250	Asian American Literature	
JAPN 1112	Beginning Japanese II	
JAPN 2900	Japanese Literature in English	
JAPN 3900	Voices & Visions from the World of Japanese Anime and Manga	
KOR 1112	Beginning Korean 2	
KOR 2900	Korean Literature in English	
PHIL 3450	Asian Philosophy	
ANTH 3703R	Anthropology of Asia: Cultures, Communities, and Migration	
FIN 3555	Business and Asian Culture	
HIST 4400	History of Modern East Asia	
HIST 4330	Modern Chinese History in Fiction and Film	
HIST 4590	Media Cultures of the Indian Subcontinent	
PSCI 3050	East Asian Politics	
Total Units		**12**

Certificate in Disability Studies

The Certificate in Disability Studies provides an introduction to the fast-growing field of Disability Studies, an interdisciplinary field that centers the knowledge, contributions, experiences, histories, and cultures of people with disabilities. The certificate can prepare students for careers in medicine, social work, public service, and teaching, in which they may serve people with disabilities, but more importantly, it encourages all students to celebrate disabled joy, creation, and community while promoting social justice for people with disabilities.

Minor Requirements (23-24 units)

Choose nine units from the following		
COMM 2451	Communicating Disability Studies (Choose nine units from the following)	9
ENG 3280	Disability Literature	
HIST 3791	Disability History	
PHIL 3026	Philosophy of Disability	
Choose nine units from the following:		9
ASL 1111	American Sign Language I	
ASL 1112	American Sign Language II	

ENG 1210	Diversity Literature and Social Justice	
HSCI 2200	Introduction to Public Health	
KINE 3050	Disability, Society and Physical Activity	
KINE 3100	Introduction to Adapted Physical Activity	
HIST 3790	The History of Madness	
PSYC 3340	Stereotyping, Prejudice and Discrimination	
SOC 4530	Citizenship, Status, and Inequality	
ESPE 3350	Introduction to Special Populations for General Education Teachers	
Internships, Practicums, and Service Learning (3)		**3**
This program encourages outreach and community activism. Because issues around disability identity, rights, and access reach across many disciplines, you can apply the concepts from the disability studies certificate to a practicum or internship experience in many fields. To apply these courses toward the certificate, the topic is restricted to those related to disability studies. Talk to an advisor in the chosen field to find out more. Possible 3-unit electives for this experience include:		
ANTH 5753	Internship in Anthropology	
ART 5753	Internship in Art	
CJUS 5753	Internship in Criminal Justice	
COMM 5793	Internship in Communication	
DES 5590	Design Internship	
ENG 5753	Internship in English	
HIST 5750	Internship in History	
HSCI 5754	Internship in Environmental Health	
MUS 4700	Music Therapy Practicum	
PHIL 5753	Internship in Philosophy	
PSCI 5753	Internship in Political Science	
PSYC 5575	Internship	
SOC 5753	Internship and Practicum	
SPAN 4443	Internship Project	
SSCI 5750	Social Science Internship	
TA 5753	Internship in Theatre Arts III (Community Service Courses)	
Community Service Courses (2-3)		**2-3**
COMM 2593	Service Learning in Communication	
ENG 3993	Community Service Project	
HIST 3990C	Community-Based Project	
HSCI 5213	Community Service Project in Public Health	
WLL 3893	Community Service Project	
Total Units		**23-24**

Certificate in Immersive Storytelling, Design, & Innovative Marketing Communication

The art of the story is evolving as media become more participatory and more immersive. Creators must utilize immersive technologies like mixed and virtual reality, 360-degree technology, and video games to excel in developing and marketing their ideas, products and services. This 15-unit certificate prepares any major to become an adept creator of immersive stories. Students will synthesize the disciplines of theater, design, visual art, creative writing, computer science, data science, marketing, business, and communications, into concepts of storytelling. Then, through four courses and a capstone project, students will merge their ideas with creative technology platforms to build a portfolio of immersive work, launching them into this dynamic field.

Core Requirements (15 units)

CSE 1300	Introduction to Data Science	3
CAL 3000	Foundations and Theoretical Concepts of Immersive Storytelling and Emerging Technologies	3
CAL 3010	Extended Reality, Storytelling, and World Building	3
CAL 3020	Story-driven Game Design	3
CAL 3030	Immersive Storytelling, Product Design, and Integrated Marketing Communication	3
Total Units		**15**

Department of Art and Design

Accredited by the National Association of Schools of Art and Design

Visual Arts Center, Room 105
(909) 537-5802 Department of Art & Design website (http://art.csusb.edu)

CSUSB's Department of Art & Design offers outstanding teaching in Art History, Design, Art Education, and Studio Art at both undergraduate and postgraduate levels. Housed within the 100,000 sq. ft. Visual Arts Building at the San Bernardino Campus, the department has some of the best art and design making facilities in the CSU system.

The following bachelor's degrees are offered: the BA in Art History & Global Cultures, the BA in Design Studies, the BFA in Design (with concentrations in 3D, Interface Design, Motion Graphics, and Marketing), the BA in Visual Art Studies, the BA in Art (with concentrations in Studio Art & Art Education), and the BFA in Art (with a concentration in Studio Art).

We also offer an MA in Art and an MFA in Studio Art. The MA in Art is a 30-unit degree for those interested in further development of their studio practice. The MFA in Art, a 3-year, 60-unit degree, is the terminal degree for the field, and requires the mounting of an exhibition of artwork as the culminating experience. Those with an MFA can also teach at the University level.

In the studio arts degrees, we have specialized workshops and studios for painting, drawing, ceramics, glassmaking, photography, sculpture, illustration, wood, and furniture design, as well as printmaking and digital electronic fabrication.

The design degrees cover a broad range of design sub-disciplines, including graphic design (also known as interface design), web design, UX/UI (user-experience/user-interface) design, 3D modelling, virtual and augmented reality design, motion graphics and video editing design, or students can study design in tandem with marketing. The design studios and workshops are equipped with iMacs and digital electronic fabrication tools (such as large-scale color printers, plotters, 3D printers,

3D scanners, laser cutters, and CNC routers) to prepare students for the diverse and rapidly changing design universe.

The art history degree is for those students wishing to move into careers in museums, galleries, archives and other arts organizations or to pursue graduate study. The art history classes also feed into all our other teaching, bringing rigorous research, analysis and contextualization skills to every artist and designer in our department to help develop all types of scholarly and creative professional practices.

A long-standing collaboration with the College of Education on campus also sees the art education area creating innovative, skilled, and thoughtful K-12 teachers for our community as well as a whole host of other collaborations with community partners, giving our students the opportunity to become life-long educators, community leaders, and arts activists.

The Department of Art & Design also has a long partnership with RAFFMA, the campus museum, which hosts a year end, juried student exhibition of art and design work. Students can also opt to exhibit their work and curate exhibitions in some of the galleries and exhibition spaces throughout the Visual Arts Building.

Students in our department also benefit from access to The Visual Resource Center (room VA208, and online at Visual Resource Center website (https://www.csusb.edu/visual-resource-center/)). The VRC has a wealth of study materials for the study of art and design, both in hard copy form and many more online resources specially chosen for the department's curricula. Also, the VRC is home to the Innovative Materials Collection, from which students can learn about new materials for art and design making of any kind by handling and researching the samples of materials.

Studio and design courses meet typically for five hours per week, while art history courses meet for three hours per week. The workshops and studios are open from 8am to 10pm through the week, and for 6 hours on Saturdays, so students can continue working on their projects outside of class time. Field trips are mandatory in most art history courses and many studio art and design courses. Materials fees are required in all courses in the department.

Departmental Honors

To be awarded Honors in Art & Design, a student must:

1. Achieve a university grade point average of 3.25;
2. Achieve a grade point average of 3.5 in the major;
3. In special circumstances, the department may grant honors to students who fail to meet some or all the above requirements but have in some other way demonstrated exceptional achievement in the field of art & design. In these cases, the student must be recommended by three faculty, at least one of whom is in their area of specialization.

Students who meet criteria #1 and 2 will automatically be notified that they will be receiving an honors designation. For those interested in receiving honors who do not meet criteria #1 and 2, the student must initiate the process by making a formal application to the Department of Art & Design prior to their final term of study.

Current Faculty

Francis Almendarez, Assistant Professor of Art and Design
B.F.A. 2013
M.F.A. 2016, Goldsmiths, University of London

Jane Chin Davidson, Professor of Art and Design
B.A. 2001, Reed College
Ph.D. 2007, University of Manchester

John V. Decemvirale, Assistant Professor of Art and Design
Ph.D. 2021, University Of California-Santa Barbara

Rafael Duffie, Assistant Professor of Art and Design
B.S. Art Institute of California, Los Angeles
M.F.A. 2020, Academy of Art University, San Francisco

Edward Gomez, Professor of Art and Design
B.F.A. 1999, Arizona State University
M.F.A. 2003, Otis College of Art and Design

Katherine Gray, Professor of Art and Design, Chair, Chair
B.A. 1989, Ontario College of Art
M.F.A. 1991, Rhode Island School of Design

Taylor Moon, Associate Professor of Art and Design
B.A. 2018, UC Santa Barbara
M.F.A. 2019, University of Oxford

Andrew Oakes, Professor of Art and Design
B.A. 1997, California State University, San Bernardino
M.F.A. 2014, Azusa Pacific Univeristy

Matthew Poole, Professor of Art and Design, Interim Chair, Interim Chair
B.F.A. 1996, Ruskin School of Fine Art, University of Oxford
M.F.A. 1997, University of Northumbria, Newcastle-upon-Tyne

Alison Ragguette, Professor of Art and Design
B.F.A. 1997, Concordia University
M.F.A. 2004, California College of the Arts

Robert Ray, Associate Professor of Art and Design
B.A. 2006, Northeastern Illinois University
M.A. 2010, Ransselaer Polytechnic Institute - Troy NY

Nicole Scalissi, Assistant Professor of Art and Design
B.A. 2009, Ph.D. 2019, University of Pittsburgh
M.A. 2013, Pennsylvania State University

Brad Spence, Professor of Art and Design
B.A. 1990, University of Florida
M.F.A. 1996, California Institute of the Arts

Beth Steffel, Associate Professor of Art and Design
B.F.A. 2004, University of Akron
M.F.A. 2006, University of Cincinnati

Injeong Yoon-Ramirez, Assistant Professor of Art and Design
Ph.D. 2017, University of Arizona

Emeriti

Kurt Collins

Leo G. Doyle

Robert R. Harrison

Julius D. Kaplan

Sant K. Khalsa

Roger Lintault

George McGinnis

Thomas McGovern

Billie P. Sessions

William Warehall

Don Woodford

Bachelor of Arts

- Art (p. 160) with concentrations in:
  - Art Education
  - Studio Art
- Art History and Global Cultures (p. 161)
- Design Studies (p. 162)
- Visual Art Studies (p. 162)

Bachelor of Fine Arts

- Art (p. 163) with a concentration in:
  - Studio Art
- Design (p. 164) with concentrations in:
  - Graphic Design
  - Interface Design
  - 2D Animation & Motion Graphics
  - 3D
  - Marketing

Bachelor of Science

- Design (p. 165) with concentrations in:
  - Interface Design
  - Motion
  - 3D
  - Marketing

Graduate Degree

Master of Arts in Art (p. 157)

Master of Fine Arts

- Studio Art (p. 158)

Minors

- Animation & Illustration (p. 166)
- Art History (p. 166)
- Digital Arts (p. 166)
- Photography & Video (p. 167)
- Studio Art (p. 166)

Certificates

- Art and Restorative Justice (p. 168)
- Arts and Entrepreneurship (p. 167)
- Video and Photography (p. 168)

Master of Arts in Art

(*Program Code: ARSA)*

The Master of Arts is designed to provide opportunities for further study in one or more of the various studio areas within the Department of Art and Design. The objectives of the program are to foster the artistic growth and competence of the individual, to provide the preparation for a professional career in the visual arts, and to provide a basis for further graduate study in the field.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate standing are:

1. A baccalaureate degree from an accredited institution with a minimum of 30 semester units of upper-division art courses comparable to those required of a major in art at this university. The Department of Art and Design determines which courses are comparable.
2. Completion of a minimum of 12 semester units of upper-division studio art.
3. Completion of a minimum of 9 semester units in art history with a minimum of 3 that are upper-division units.
4. A grade point average of 3.0 ("B") or better in all art courses taken.
5. Admission to the program will additionally be based upon evaluations by the Department of Art and Design graduate committee of the following items:
   a. A portfolio displaying a comprehensive body of work with strong technical abilities and potential for a clear direction in graduate study. A portfolio consists of 15 images of the applicant's artwork in the form of a single PDF. The portfolio needs to be accompanied by a typed list of artworks with the applicant's name, and title, medium, size and date for each artwork.
   b. A 500 word "Statement of Purpose" describing the conceptual and technical aspects of the artwork and the applicant's reason for seeking graduate studies in art. This statement should also demonstrate applicant's knowledge of historical and contemporary art in relation to their work. This statement should be carefully crafted and will also be used to evaluate the student's writing ability and critical thinking skills.
   c. Optional three letters of recommendation supporting the student's application. Letters should be from professionals and/or educators in the field able to assess the student's competence and to make relevant comments on the student's likely success in a graduate art program.

Applicants who have satisfied the general requirements for admission, but who have deficiencies in prerequisite preparation which can be met by specified additional preparation may be admitted to the program with conditionally classified standing. Deficiencies must be made up as early in the program as possible, normally within the first 9 units after conditional admission.

Applications to the M.A. in Studio Art program are reviewed once a year. Contact the Department of Art and Design Graduate Coordinator for further information.

Advancement to Candidacy

Candidacy denotes that the student is fully qualified to complete the final stages of the Master of Arts program in Art, and complete their Master's

Project in the form of a culminating portfolio submission. To be formally advanced to candidacy, the student must have:

1. Completed 12 units of graduate coursework, with a GPA of 3.0 (B) or better.
2. Successfully completed an advancement review conducted by the Department of Art and Design Graduate Coordinator in consultation with the Department Graduate Committee.

Requirements for Graduation

1. A minimum of 30 semester units of approved graduate-level work, with at least 21 completed at this university;
2. A GPA of at least 3.0 ('B') in all courses taken;
3. Submission of a portfolio and documentation of the project approved by the Department of Art and Design Graduate Coordinator and the Department Graduate Committee.
4. Any general requirements not cited above and noted in Graduate Degree and Program Requirements (p. 74).

Degree Requirements (30 units)

6 units each of:		12
ART 6610	MA Graduate Studio in Art	
ART 6612	MA Graduate Critique	
ART 6630	Graduate Seminar in Professional Practices	3
ART 6685	Master's Project in Art- MA	3
Six units of upper division Art History (AH) coursework.		6
Six units of electives and/or independent study appropriate to the student's goals. Courses may be chosen from upper-division and graduate offerings of any department in the university subject to prior approval by the Department of Art & Design Department Graduate Coordinator.		6
Total Units		**30**

The Culminating Experience is expressed by the Master's Project, a submission of a portfolio and documentation of the project approved by the Department of Art and Design Graduate Coordinator.

Current Faculty

Francis Almendarez, Assistant Professor of Art and Design
B.F.A. 2013
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George McGinnis

Thomas McGovern

Billie P. Sessions

William Warehall

Don Woodford

Master of Fine Arts in Studio Art

The Master of Fine Arts in Studio Art provides rigorous study for students with a strong direction and focus in art and a high level of technical proficiency. The program provides advanced study and practice in preparation for professional careers in studio art or teaching in higher

education. Graduates will be prepared to take their place in the visual arts community and make significant contributions to our visual culture. The program focuses on creative studio work, supplemented by art history and theory, professional and critical writing, graduate studio critiques, professional development, studio electives and/or independent study.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate standing are:

1. A baccalaureate degree from an accredited institution with a minimum of 30-semester units of upper-division art courses comparable to those required of a major in art at this university. The Art Department determines which courses are comparable.
2. Completion of a minimum of 14-semester units of upper-division studio art.
3. Completion of a minimum of 14-semester units in art history; a minimum of 5 should be upper-division units, and at least one course that is equivalent to AH 4250 and/or AH 5250.
4. A grade point average of 3.0 ("B") or better in all art courses taken.
5. Admission to the program will additionally be based upon evaluations by the Art Department graduate committee of the following items:
   a. A portfolio displaying a comprehensive body of work with strong technical abilities and potential for a clear direction in graduate study. A portfolio consists of 15 images of the applicant's artwork in the form of a single PDF. The portfolio needs to be accompanied by a typed list of artworks with the applicant's name, and title, medium, size, and date for each artwork.
   b. A 500-word "Statement of Purpose" describing the conceptual and technical aspects of the artwork and the applicant's reason for seeking graduate studies in art. This statement should also demonstrate the applicant's knowledge of historical and contemporary art in relation to their work. This statement should be carefully crafted and will be used to evaluate the student's writing ability and critical thinking skills.
   c. Three letters of recommendation to support the student's application. Letters should be from professionals and/or educators in the field able to assess the student's competence and to make relevant comments on the student's likely success in a graduate art program.

Applicants who have satisfied the general requirements for admission, but who have deficiencies in prerequisite preparation that can be met by specified additional preparation may be admitted to the program with conditionally classified standing. Deficiencies must be made up as early in the program as possible, normally within the first 8 units after conditional admission.

They will be advanced to classified standing when the Art Department graduate coordinator certifies that they have satisfied all appropriate requirements.

Applications to the M.F.A. in Studio Art program are reviewed annually for Fall admission. There are two admission applications, one to the University (primary application) and one to the Art Department (secondary application). The secondary application deadline is January 15. Please note that this may differ from University application deadlines. The secondary application, when the portal is live, can be submitted here:

https://csusb.inforeadv4.com/CompetitionSpace/#homePage

Contact the Art Department graduate coordinator for further information.

Graduate Teaching Assistantships

Students interested in university teaching are encouraged to apply for a Graduate Teaching Assistantship. This competitive program offers first and second-year students teaching assistant opportunities with professors in the lower-division studio and foundation courses. After the practicum (and ART 6630) is successfully completed, the second and third-year students have the opportunity for a paid position as a Teaching Associate, pending adequate enrollment.

Advancement to Candidacy

Candidacy denotes that the student is fully qualified to complete the final stages of the Master of Fine Arts in Studio Art program and is thus eligible to enroll in ART 6695 Master's Project in Studio Art. To be formally advanced to candidacy, the student must have:

1. Completed the Writing Requirement for Graduate Candidacy (WRGC) which is the successful completion of ART 6617 with a grade of 'B' or better.
2. Achieved classified status.
3. Been accepted by an advisor to supervise the course of study.
4. Completed, with the approval of the Art Department graduate coordinator, at least 20-semester units of applicable course work at this university, and achieved a minimum grade point average of "B" (3.0) or better.
5. Successfully completed an advancement review conducted by the Department of Art graduate committee and graduate coordinator.
6. Filed a program of graduate course work prepared in consultation with the student's advisor and approved by the Art Department graduate coordinator.

Requirements for Graduation

1. A minimum of 60-semester units of approved graduate-level work, with at least 42 completed at this university.
2. A GPA of at least 3.0 ("B") in all courses taken to satisfy the Master of Fine Arts degree requirements.
3. Completion and exhibition of an acceptable project, and submission of a report and documentation of the project approved by the student's graduate committee and the Art Department graduate coordinator.
4. The Graduation Writing Assessment Requirement is met upon successful completion of the extensive written artist statement that is developed in ART 6630 and that accompanies the Master's Project in ART 6695.
5. Any general requirements not cited above for graduate degrees and noted in Graduate Degree and Program Requirements (p. 74).

Degree Requirements (60 units)

(Program Code: STAR)

ART 6604	Graduate Studio in Art	15
ART 6620	Graduate Studio Critique	15
ART 6617	Graduate Seminar in Critical Theory and Methodology	3
ART 6618	Graduate Seminar in Contemporary Art Issues and Practices	3

ART 6630	Graduate Seminar in Professional Practices	3
ART 5951	Independent Study	3
Required Art History Electives (to be approved by the graduate coordinator.)		6
Nine units of electives appropriate to the student's goals. Courses may be chosen from upper-division offerings of any department in the university subject to prior approval by the student's area advisor and the Art Department graduate coordinator.		9
Culminating Experience		3
Total Units		**60**

Culminating Experience (3 units)

ART 6695	Master's Project in Studio Art	3
Total Units		**3**

Bachelor of Arts in Art

A liberal arts degree based in a broad program of general studies with 2 areas of concentration: Art Education and Studio Art. The Art Education concentration is designed for students who wish to pursue teaching at the K-12 level, art activism, nonprofit leadership, and community arts. The concentration in Studio Art offers a breadth of artistic exposure and experiences for the student with a strong professional interest in art who may wish to pursue graduate studies.

Degree Requirements (65-66 units)

Total units required for graduation:120

Lower-division requirements (30)

Foundation Requirements:		12
ART 1120	2D Foundation: Line, Color and Composition	
ART 1130	3D Foundation: Form, Space & Time	
ART 1140	Creative Technology for Artists	
ART 1160	Introduction to Drawing and Life Drawing	
Art History. 6 units of lower division Art History.		6
Choose one course from:		
AH 1103	Art History Methodologies 1	
AH 1104	Art History Methodologies 2	
And choose one from:		
AH 1221	Art History Foundations 1	
AH 1222	Art History Foundations 2	
Beginning Studio Courses. Choose 2 courses from Group A and 2 courses from Group B:		12
Group A:		
ART 2240	Beginning Imaging and Illustration	
ART 2260	Beginning Photography	
ART 2290	Beginning Painting	
Group B:		
ART 2320	Beginning Ceramics	
ART 2330	Beginning Glass	
ART 2350	Sculpture I: Introduction to Sculpture	

Upper Division Requirements (21)

ART 5500	Undergraduate Professional Practices	3
Choose 2 courses from the following 3:		6
AH 3250	Topics and Themes of Art History and Exhibitions	
AH 3350	Contemporary Art and Culture of the Americas	
AH 4250	Art History Seminar	
Choose 3 intermediate level studio courses:		9
ART 3000	Art and Activism	
ART 3160	Intermediate Drawing and Life Drawing	
ART 3240	Intermediate Imaging and Illustration	
ART 3260	Intermediate Photography	
ART 3270	Printmaking	
ART 3290	Intermediate Painting	
ART 3320	Intermediate Ceramics	
ART 3330	Intermediate Glass	
ART 3350	Intermediate Sculpture	
ART 3370	Woodworking and Furniture Design	
ART 3700	Public Art	
ART 3710	Video Art	
ART 3720	Performance Art	
ART 3730	Installation Art	
ART 3780	Special Topics in Art	
Choose 1 advanced level studio course:		3
ART 4160	Advanced Drawing and Life Drawing	
ART 4240	Advanced Imaging and Illustration	
ART 4260	Advanced Photography/Video Studio	
ART 4270	Advanced Printmaking	
ART 4290	Advanced Painting	
ART 4320	Advanced Ceramics	
ART 4330	Advanced Glass	
ART 4350	Sculpture II: Studio Practices	
ART 4370	Advanced Woodworking and Furniture Design	
Concentration (14-15)		
Students must satisfy the requirements of one of the concentrations listed below.		14-15
Total Units		**65-66**

Concentrations (14-15 units)

Art Education Concentration (14-15 units)

(Program Code: AAED)

AAED 2431	Art in the Classroom	3
AAED 3431	Art and Human Development	3
AAED 3432	Critical Theories in Art Education	3
AAED 5431	Curriculum Theories and Methodologies in Art Education	3
Choose at least 2 units from:		2-3
AAED 2432	From Teaching Artists to Social Practice: A History	
AAED 3432	Critical Theories in Art Education	

AAED 4432	Community-based Art Practicum	
AAED 4433	Leadership and Engagement in the Arts	
AH 3210	Visualizing Gender, Performing Identity	
AH 3310	Asian Contemporary Art	
AH 3350	Contemporary Art and Culture of the Americas	
AH 4250	Art History Seminar	
ART 4450	Arts in Action: Visual Art	
ART 4500	Advanced Art Laboratory	
ART 5750	Internship in Art - Reflection Component	
ART 5751	Internship in Art	
ART 5752	Internship in Art	
ART 5753	Internship in Art	
Total Units		**14-15**

Studio Art Concentration (14 units)

(Program Code: ASTA)

Upper Division Studio Art requirements (14)		
Choose 4 Upper Division studio art courses:		12
ART 3000	Art and Activism	
ART 3160	Intermediate Drawing and Life Drawing	
ART 3240	Intermediate Imaging and Illustration	
ART 3260	Intermediate Photography	
ART 3270	Printmaking	
ART 3290	Intermediate Painting	
ART 3320	Intermediate Ceramics	
ART 3330	Intermediate Glass	
ART 3350	Intermediate Sculpture	
ART 3370	Woodworking and Furniture Design	
ART 3520	Socially-engaged Art	
ART 3700	Public Art	
ART 3710	Video Art	
ART 3720	Performance Art	
ART 3730	Installation Art	
ART 3780	Special Topics in Art	
ART 4160	Advanced Drawing and Life Drawing	
ART 4240	Advanced Imaging and Illustration	
ART 4260	Advanced Photography/Video Studio	
ART 4270	Advanced Printmaking	
ART 4290	Advanced Painting	
ART 4320	Advanced Ceramics	
ART 4330	Advanced Glass	
ART 4350	Sculpture II: Studio Practices	
ART 4370	Advanced Woodworking and Furniture Design	
ART 5750	Internship in Art - Reflection Component	
ART 5751	Internship in Art	
ART 5752	Internship in Art	
ART 5753	Internship in Art	
ART 4500	Advanced Art Laboratory	2
Total Units		**14**

Bachelor of Arts in Art History and Global Cultures

(Program Code: AHGC)

The study of art history equips and empowers students with acute visual literacy, tools for intellectual discovery, and deep understanding and mastery of the political and social significance of art in the global and historical context (including contemporary art and design produced in diverse cultures) through introduction and implementation of research and scholarship.

The BA in Art History & Global Cultures prepares and qualifies students for meaningful and rewarding careers after university, in such areas as gallery and museum occupations, archives and libraries of the visual arts, non-profit arts organizations, governmental and NGO arts funding bodies, arts journalism and communications, advertising and marketing industries, as well as preparing many students for post-graduate study in art history and related fields.

Requirements (48-50 units)

Total units required for graduation: 120

Requirements for the B.A. in Art History & Global Cultures

(Program Code: AHGC)

Lower-Division Requirements: (18)		
AH 1103	Art History Methodologies 1	3
AH 1104	Art History Methodologies 2	3
AH 1120	Globalization, Art, and Visual Culture	3
AH 1221	Art History Foundations 1	3
AH 1222	Art History Foundations 2	3
ART 2260	Beginning Photography	3
Choose one course from: (3)		**3**
ART 1120	2D Foundation: Line, Color and Composition	
ART 1130	3D Foundation: Form, Space & Time	
ART 1160	Introduction to Drawing and Life Drawing	
ART 1140	Creative Technology for Artists	
Or, one Beginning-level Studio Art course		
ART 2240	Beginning Imaging and Illustration	
ART 2290	Beginning Painting	
ART 2320	Beginning Ceramics	
ART 2330	Beginning Glass	
ART 2350	Beginning Sculpture	
Upper-Division Requirements: (27-29)		
AH 3250	Topics and Themes of Art History and Exhibitions	3
AH 3310	Asian Contemporary Art	3
AH 3350	Contemporary Art and Culture of the Americas	3
AH 4250	Art History Seminar	3
AH 5250	Art History Capstone Research Seminar	3

AH 5270	Art History Capstone Research Methodology	3
AH 5290	Art History Conference	3
Two language instruction courses in a single language other than English from the Department of World Languages and Literatures.		6-8
Total Units		**48-50**

Bachelor of Arts in Design Studies

The Bachelor of Arts in Design Studies is a flexible program that teaches students how to use design for communication and problem-solving. This degree allows students to explore other subjects they're interested in alongside design.In this program, students learn to create meaningful design work in different areas, such as branding, graphic design, illustration, animation, 3D design, and user interface/user experience (UI/UX) design.

Students can choose from various design courses to shape their education. They learn both the theory and practice of design, as well as its history and cultural impact. This degree prepares students for many different careers and helps them develop design skills that can be useful in other jobs. Students learn to think critically, be creative, and design responsibly in today's changing world. Graduates of this program understand how design works in society. They can use their skills to solve problems and communicate ideas effectively in many fields.

Degree Requirements (42 units)

Total units required for graduation: 120 units

(Program Code: DEST)

Lower-Division Requirements (24)		
ART 1160	Introduction to Drawing and Life Drawing	3
DES 1100	Digital Applications Basics	3
DES 1103	Social History of Design	3
DES 1104	Design Theory in Context	3
DES 1110	Fundamental Design Principles	3
DES 1125	Design Thinking - Problem Solving & Critical Thinking in Visual Studies	3
DES 2005	Typography and Layout	3
DES 2600	Digital 3D and Time-Based Media	3
Upper-Division Requirements (18)		
Eighteen units chosen from:		18
DES 3020	Branding and Brand Identity Design	
DES 3130	Junior Design Topics	
DES 3205	Web and Application Design	
DES 3300	Digital Illustration	
DES 3500	Business of Creativity	
DES 3600	Digital Motion Graphics	
DES 3650	Experimental Animation	
DES 3615	Video Editing	
DES 3700	Infographic and Data Visualization Design	
DES 3715	User Interface and User Experience Design	
DES 3800	Advanced Modeling	
DES 3835	Character Design	
DES 3840	3D Rigging	
DES 4100	Design Center - Collaborative Project-Based Learning	
DES 4015	Advertising and Promotion Design	
DES 4130	Senior Design Topics	
DES 4195	Design Portfolio	
DES 4300	Application Programming for Designers	
DES 4600	Advanced 2D Animation and Motion Graphics	
DES 4625	Storyboarding	
DES 4800	Physical Product Design	
DES 4815	Interaction Design Futures	
DES 4825	3D Animation	
DES 4855	Real-Time Rendering	
DES 5590	Design Internship	
MKTG 3050	Marketing Principles	
MKTG 3160	Research Methods	
MKTG 4200	Marketing Communications	
MKTG 5400	Digital Marketing	

Bachelor of Arts in Visual Art Studies

This program is designed for students with a general interest in the studio arts, who may want to also pursue coursework in other areas.

Requirements (36)

Total units required for graduation: 120

Requirements for the B.A. in Visual Art Studies

(Program Code: VAST)

Lower Division Studio Requirements (21)		
Choose three foundation courses from the following list:		9
ART 1120	2D Foundation: Line, Color and Composition	
ART 1130	3D Foundation: Form, Space & Time	
ART 1140	Creative Technology for Artists	
ART 1150	Language of Art	
ART 1160	Introduction to Drawing and Life Drawing	
Choose 2 beginning courses for a total of 6 units:		6
ART 2240	Beginning Imaging and Illustration	
ART 2260	Beginning Photography	
ART 2290	Beginning Painting	
ART 2320	Beginning Ceramics	
ART 2330	Beginning Glass	
ART 2350	Beginning Sculpture	

Art History. Choose two lower-division Art History course from:		6
AH 1103	Art History Methodologies 1	
AH 1104	Art History Methodologies 2	
AH 1120	Globalization, Art, and Visual Culture	
AH 1221	Art History Foundations 1	
AH 1222	Art History Foundations 2	
Upper Division Studio Requirements: (12)		
Choose 2 core intermediate level courses.		6
ART 3160	Intermediate Drawing and Life Drawing	
ART 3240	Intermediate Imaging and Illustration	
ART 3260	Intermediate Photography	
ART 3290	Intermediate Painting	
ART 3320	Intermediate Ceramics	
ART 3330	Intermediate Glass	
ART 3350	Intermediate Sculpture	
Choose 2 upper division level courses; one must be 4000 level.		6
ART 3000	Art and Activism	
ART 3270	Printmaking	
ART 3370	Woodworking and Furniture Design	
ART 3430	Digital Fabrication: Functional Art/ Object Design 1	
ART 3520	Socially-engaged Art	
ART 3700	Public Art	
ART 3710	Video Art	
ART 3720	Performance Art	
ART 3730	Installation Art	
ART 3740	Visiting Artist Residency: Collaborative Production & Exhibition Practice	
ART 3760	Border Art	
ART 3780	Special Topics in Art	
ART 4160	Advanced Drawing and Life Drawing	
ART 4240	Advanced Imaging and Illustration	
ART 4260	Advanced Photography/Video Studio	
ART 4270	Advanced Printmaking	
ART 4290	Advanced Painting	
ART 4320	Advanced Ceramics	
ART 4330	Advanced Glass	
ART 4350	Advanced Sculpture	
ART 4370	Advanced Woodworking and Furniture Design	
ART 4430	Digital Fabrication: Functional Art/ Object Design 2	
Senior Capstone (3)		
ART 5500	Undergraduate Professional Practices	3
Total Units		**36**

Bachelor of Fine Arts in Art

The Bachelor of Fine Arts is a degree that allows for protracted and thorough creative study and practice in the art studio. Students will be exposed to a broad repertoire of contemporary art practices and have the option of specializing in certain studio art areas. The degree is designed for those wanting to develop a professional practice in the studio art. The culminating experience is an exhibition of artwork.

All incoming majors will be enrolled in the BA in Art. If students are interested in enrolling in the BFA in Art degree, they should contact a full-time faculty member to make arrangements for a portfolio review in their third year, or in their first semester of residency for transfer students, after the student has successfully completed all lower division requirements (or its equivalent) with a GPA of 3.0 or better. Once accepted into the BFA in Art, a *Change of Major* will be filed with the Office of the Registrar.

Requirements (77)

Total units required for graduation: 132

Requirements for the B.F.A. in Art

Lower Division requirements: (36)		
Foundation Requirements		
ART 1120	2D Foundation: Line, Color and Composition	3
ART 1130	3D Foundation: Form, Space & Time	3
ART 1140	Creative Technology for Artists	3
ART 1160	Introduction to Drawing and Life Drawing	3
Art History. Two lower division art history courses.		
Choose one from:		3
AH 1103	Art History Methodologies 1	
AH 1104	Art History Methodologies 2	
And choose one from:		3
AH 1221	Art History Foundations 1	
AH 1222	Art History Foundations 2	
Studio Art lower division requirements. Choose 5 from the following lower division studio courses:		15
ART 2240	Beginning Imaging and Illustration	
ART 2260	Beginning Photography	
ART 2290	Beginning Painting	
ART 2320	Beginning Ceramics	
ART 2330	Beginning Glass	
ART 2350	Beginning Sculpture	
Plus, choose one of the following:		3
ART 2329	Xicanx Art	
ART 3760	Border Art	
Upper Division requirements: (41)		
AH 3250	Topics and Themes of Art History and Exhibitions	3
AH 4250	Art History Seminar	3
ART 4500	Advanced Art Laboratory	2
ART 5500	Undergraduate Professional Practices	3
ART 5510	BFA Project	3
Choose 5 intermediate level studio art courses:		15
ART 3000	Art and Activism	
ART 3160	Intermediate Drawing and Life Drawing	
ART 3240	Intermediate Imaging and Illustration	
ART 3260	Intermediate Photography	
ART 3270	Printmaking	

ART 3290	Intermediate Painting	
ART 3320	Intermediate Ceramics	
ART 3330	Intermediate Glass	
ART 3350	Intermediate Sculpture	
ART 3370	Woodworking and Furniture Design	
ART 3430	Digital Fabrication: Functional Art/ Object Design 1	
ART 3520	Socially-engaged Art	
ART 3700	Public Art	
ART 3710	Video Art	
ART 3720	Performance Art	
ART 3730	Installation Art	
ART 3740	Visiting Artist Residency: Collaborative Production & Exhibition Practice	
ART 3780	Special Topics in Art	
Choose 4 advanced level studio art courses (all 4000 level courses are repeatable):		12
ART 4160	Advanced Drawing and Life Drawing	
ART 4240	Advanced Imaging and Illustration	
ART 4260	Advanced Photography/Video Studio	
ART 4270	Advanced Printmaking	
ART 4290	Advanced Painting	
ART 4320	Advanced Ceramics	
ART 4330	Advanced Glass	
ART 4350	Advanced Sculpture	
ART 4370	Advanced Woodworking and Furniture Design	
ART 4430	Digital Fabrication: Functional Art/ Object Design 2	
Total Units		**77**

Bachelor of Fine Arts in Design

This program is for students with strong professional interest in design; desire to select a concentration and specialize in either Interface Design, 2D Animation & Motion Graphics, Graphic Design, 3D, or Marketing; and desire to complete a capstone thesis project in design. Please note that this is a mandatory five-year program.

Degree Requirements (69 units)

Total units required for graduation: 121 units

Lower-Division Core (24)		
ART 1160	Introduction to Drawing and Life Drawing	3
DES 1100	Digital Applications Basics	3
DES 1103	Social History of Design	3
DES 1104	Design Theory in Context	3
DES 1110	Fundamental Design Principles	3
DES 1125	Design Thinking - Problem Solving & Critical Thinking in Visual Studies	3
DES 2005	Typography and Layout	3
DES 2600	Digital 3D and Time-Based Media	3
Upper-Division Core (24)		
DES 3020	Branding and Brand Identity Design	3
DES 3100	Junior Portfolio Review	0
DES 3130	Junior Design Topics	3
DES 3205	Web and Application Design	3
DES 3300	Digital Illustration	3
DES 3500	Business of Creativity	3
DES 4100	Design Center - Collaborative Project-Based Learning	3
DES 4130	Senior Design Topics	3
Choose one from the following:		3
DES 4195	Design Portfolio	
DES 5590	Design Internship	
Capstone Courses (6)		
DES 5110	Design Capstone Thesis: Research	3
DES 5125	Design Capstone Thesis: Project	3
Concentration (15)		
Complete five courses in one of the concentrations listed below.		15
Total Units		**69**

** Some concentration titles are pending Office of the Chancellor approval*

Concentrations (15 units)

Graphic Design Concentration (15 units)

DES 3600	Digital Motion Graphics	3
DES 3615	Video Editing	3
DES 3700	Infographic and Data Visualization Design	3
DES 3715	User Interface and User Experience Design	3
DES 4015	Advertising and Promotion Design	3
Total Units		**15**

Interface Design Concentration (15 units)

(Program Code: DSID)

DES 3700	Infographic and Data Visualization Design	3
DES 3715	User Interface and User Experience Design	3
DES 4300	Application Programming for Designers	3
DES 4800	Physical Product Design	3
DES 4815	Interaction Design Futures	3
Total Units		**15**

2D Animation & Motion Graphics Concentration (15 units)

(Program Code: DSMO)

DES 3600	Digital Motion Graphics	3
DES 3615	Video Editing	3
DES 3650	Experimental Animation	3
DES 4600	Advanced 2D Animation and Motion Graphics	3

DES 4625	Storyboarding	3
Total Units		**15**

3D Concentration (15 units)

(Program Code: DDDD)

DES 3800	Advanced Modeling	3
DES 3835	Character Design	3
DES 3840	3D Rigging	3
DES 4825	3D Animation	3
DES 4855	Real-Time Rendering	3
Total Units		**15**

Marketing Concentration (15 units)

(Program Code: DSMK)

Marketing Concentration (15)		
DES 4015	Advertising and Promotion Design	3
MKTG 3050	Marketing Principles	3
MKTG 4100	Consumer Behavior	3
MKTG 4200	Marketing Communications	3
MKTG 5400	Digital Marketing	3
Total Units		**15**

Bachelor of Science in Design

This program is for students with strong professional interest in design; desire to select a concentration and specialize in either Interface Design, 2D Animation & Motion Graphics, Graphic Design, 3D, or Marketing.

Degree Requirements (63 units)

Total units for graduation: 120

Lower-Division Core (24)		
ART 1160	Introduction to Drawing and Life Drawing	3
DES 1100	Digital Applications Basics	3
DES 1103	Social History of Design	3
DES 1104	Design Theory in Context	3
DES 1110	Fundamental Design Principles	3
DES 1125	Design Thinking - Problem Solving & Critical Thinking in Visual Studies	3
DES 2005	Typography and Layout	3
DES 2600	Digital 3D and Time-Based Media	3
Upper-Division Core (24)		
DES 3020	Branding and Brand Identity Design	3
DES 3100	Junior Portfolio Review	0
DES 3130	Junior Design Topics	3
DES 3205	Web and Application Design	3
DES 3300	Digital Illustration	3
DES 3500	Business of Creativity	3
DES 4100	Design Center - Collaborative Project-Based Learning	3
DES 4130	Senior Design Topics	3
Choose one from the following:		3
DES 4195	Design Portfolio	
DES 5590	Design Internship	
Concentration (15)		
Complete five courses in one of the concentrations listed below.		15
Total Units		**63**

Concentrations (15 units)

Graphic Design Concentration (15 units)

DES 3600	Digital Motion Graphics	3
DES 3615	Video Editing	3
DES 3700	Infographic and Data Visualization Design	3
DES 3715	User Interface and User Experience Design	3
DES 4015	Advertising and Promotion Design	3
Total Units		**15**

Interface Design Concentration (15 units)

DES 3700	Infographic and Data Visualization Design	3
DES 3715	User Interface and User Experience Design	3
DES 4300	Application Programming for Designers	3
DES 4800	Physical Product Design	3
DES 4815	Interaction Design Futures	3
Total Units		**15**

2D Animation & Motion Graphics Concentration (15 units)

DES 3600	Digital Motion Graphics	3
DES 3615	Video Editing	3
DES 3650	Experimental Animation	3
DES 4600	Advanced 2D Animation and Motion Graphics	3
DES 4625	Storyboarding	3
Total Units		**15**

3D Concentration (15 units)

DES 3800	Advanced Modeling	3
DES 3835	Character Design	3
DES 3840	3D Rigging	3
DES 4825	3D Animation	3
DES 4855	Real-Time Rendering	3
Total Units		**15**

Marketing Concentration (15 units)

DES 4015	Advertising and Promotion Design	3
MKTG 3050	Marketing Principles	3
MKTG 4100	Consumer Behavior	3
MKTG 4200	Marketing Communications	3

MKTG 5400	Digital Marketing	3
Total Units		**15**

Minor in Animation and Illustration

Students will learn the various ways that imagery can be used for illustrative or editorial ends, and/or be made to be kinetic, either in two dimensions or three. A range of analog, digital and experimental techniques will be offered.

Choose 3 courses from the following: (9)		**9**
ART 1160	Introduction to Drawing and Life Drawing	
ART 1130	3D Foundation: Form, Space & Time	
ART 1140	Creative Technology for Artists	
ART 2240	Beginning Imaging and Illustration	
DES 1100	Digital Applications Basics	
DES 2600	Digital 3D and Time-Based Media	
Choose 5 courses from the following list: (15)		**15**
ART 3160	Intermediate Drawing and Life Drawing	
ART 3240	Intermediate Imaging and Illustration	
ART 3780	Special Topics in Art (when the topic is Experimental Animation)	
DES 3300	Digital Illustration	
DES 3600	Digital Motion Graphics	
DES 3800	Advanced Modeling	
DES 3835	Character Design	
ART 4160	Advanced Drawing and Life Drawing	
ART 4240	Advanced Imaging and Illustration	
DES 4625	Storyboarding	
DES 4825	3D Animation	
Total Units		**24**

Minor in Art History

Requirements for a minor in Art History (18 units)

Lower-division requirements (9)		**9**
AH 1103	Art History Methodologies 1	
AH 1104	Art History Methodologies 2	
AH 1221	Art History Foundations 1	
Upper-division requirements (9)		**9**
AH 3210	Visualizing Gender, Performing Identity	
AH 3250	Topics and Themes of Art History and Exhibitions	
AH 5270	Art History Capstone Research Methodology	
Total Units		**18**

Minor in Digital Arts

This minor helps prepare students for careers in digital illustration, digital fabrication, computer-aided design, animation and character modeling and development.

Requirements for a minor in Digital Arts (24 units)

Lower Division Requirements		
Foundation and Beginning Courses		
Choose three courses from:		9
ART 1120	2D Foundation: Line, Color and Composition	
ART 1140	Creative Technology for Artists	
ART 1160	Introduction to Drawing and Life Drawing	
ART 2240	Beginning Imaging and Illustration	
DES 1100	Digital Applications Basics	
DES 2600	Digital 3D and Time-Based Media	
Upper Division Requirements		
Choose 5 courses from the list below:		15
ART 3160	Intermediate Drawing and Life Drawing	
ART 3240	Intermediate Imaging and Illustration	
ART 3430	Digital Fabrication: Functional Art/ Object Design 1	
ART 3710	Video Art	
ART 3780	Special Topics in Art	
*ART 3780 when topic is Experimental Animation		
ART 4160	Advanced Drawing and Life Drawing	
ART 4240	Advanced Imaging and Illustration	
ART 4430	Digital Fabrication: Functional Art/ Object Design 2	
DES 3300	Digital Illustration	
Total Units		**24**

Minor in Studio Art

The Minor in Studio Art offers students with a strong interest in art to pursue coursework in the different studio areas while working towards a degree in another major.

Requirements for a minor in Studio Art (24 units)

Lower-division requirements (15)		
Choose two foundation courses from the following.		6
ART 1120	2D Foundation: Line, Color and Composition	
ART 1130	3D Foundation: Form, Space & Time (Three foundation level courses chosen from:)	
ART 1140	Creative Technology for Artists	
ART 1150	Language of Art	
ART 1160	Introduction to Drawing and Life Drawing	

Choose two lower-division studio courses chosen from:		6
ART 2240	Beginning Imaging and Illustration	
ART 2260	Beginning Photography	
ART 2290	Beginning Painting	
ART 2320	Beginning Ceramics	
ART 2330	Beginning Glass	
ART 2350	Beginning Sculpture	
Art History. One lower division art history course.		3
Upper-division requirements (9)		
Two courses chosen from:		6
ART 3330	Intermediate Glass	
ART 3160	Intermediate Drawing and Life Drawing	
ART 3260	Intermediate Photography	
ART 3290	Intermediate Painting	
ART 3350	Intermediate Sculpture	
ART 3320	Intermediate Ceramics	
One course chosen from:		3
ART 3780	Special Topics in Art	
ART 4160	Advanced Drawing and Life Drawing	
ART 4240	Advanced Imaging and Illustration	
ART 4290	Advanced Painting	
ART 4260	Advanced Photography + Video Art	
ART 4320	Advanced Ceramics	
ART 4330	Advanced Glass	
ART 4350	Advanced Sculpture	
Total Units		**24**

Minor in Photography & Video

The Minor in Photography and Video provides students the technical, creative, and analytical skills to develop original photography and video work for fine art and/or commercial applications. Students will develop skills in photo/video production, studio lighting, editing, printing, publishing, and other forms of presentation and distribution. This minor will be of interest to students interested in producing photographic content and entering the fields of photography, videography, editing, audiovisual communication, and other related fields. Students from other disciplines such as the performing arts, anthropology, entrepreneurship, marketing, and communications may also benefit from the skills offered in this program.

Total units required: 36

Core Requirements: (18)		
ART 2260	Beginning Photography	3
ART 3260	Intermediate Photography	3
ART 3265	Special Topics in Photo/Video (When the topic is Lighting Studio)	3
ART 3710	Video Art	3
ART 4260	Advanced Photography/Video Studio	3
MUS 2670	Sound Recording	3
Choose two courses from one pathway: (6)		**6**
Photography Pathway		
ART 2240	Beginning Imaging and Illustration	
ART 3265	Special Topics in Photo/Video (When the topic is Art & Publication)	
ART 3265	Special Topics in Photo/Video (When the topic is Alternative Processes)	
ENTR 3000	Entrepreneurship and Innovation	
MUS 2266	Creating Digital Media Using Personal Electronic Technology	
TA 3141	The Improvisational Mind	
Audiovisual Pathway		
COMM 2351	Television Studio Production	
COMM 3351	Introduction to Digital Video Editing	
COMM 3353	Digital Video Field Production	
COMM 4355	Digital Filmmaking I	
COMM 4356	Digital Filmmaking II	
DES 3615	Video Editing	
ENTR 3000	Entrepreneurship and Innovation	
MUS 2266	Creating Digital Media Using Personal Electronic Technology	
MUS 2660	Electronic Music Production	
MUS 4670	Advanced Studio Recording Techniques	
TA 3141	The Improvisational Mind	
Total Units		**24**

Certificate in Arts and Entrepreneurship

This Certificate program will support learning about the integration of arts practice and entrepreneurship, including how to start an independent arts business and bringing creativity to the process of entrepreneurship. It will serve the needs of students in the College of Arts and Letters and the Jack H. Brown College of Business and Public Administration. Art students will benefit from knowledge about entrepreneurship and Business students will benefit from increased creativity. The Certificate entails 24 units.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (24 units)

COMM 3211	Business and Professional Communication	3
ENTR 3000	Entrepreneurship and Innovation	3
ENTR 4420	Small Business Management	3
ENTR 5980	Reflective Essay	0
MKTG 3050	Marketing Principles	3
TA 3141	The Improvisational Mind	3
Choose one of the the following: (3)		**3**
DES 3500	Business of Creativity	
ENTR 5430	Ideation and Creative Problem Solving	
Choose one from the following: (3)		**3**
ART 2260	Beginning Photography	
ART 2290	Beginning Painting	
ART 2240	Beginning Imaging and Illustration	
ART 2320	Beginning Ceramics	
ART 2330	Beginning Glass	
ART 2350	Beginning Sculpture	
Choose one from the following: (3)		**3**
ART 3240	Intermediate Imaging and Illustration	
ART 3260	Intermediate Photography	
ART 3290	Intermediate Painting	
ART 3330	Intermediate Glass	
ART 3270	Printmaking	
ART 3320	Intermediate Ceramics	
ART 3370	Woodworking and Furniture Design	
ART 3430	Digital Fabrication: Functional Art/ Object Design 1	
Total Units		**24**

Certificate in Art and Restorative Justice

This certificate will explore the integration of the arts and restorative justice from a multidisciplinary perspective. This will serve the needs of students in multiple colleges and departments, including Art, Criminal Justice, Psychology, Anthropology, and Sociology by providing a prescribed set of courses to explore the intersections of the arts and humanities with social justice. Students will gain experience in a growing field through the practice of research, theory, and applied practice. The certificate is comprised of 24 units.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (24 units)

Required: (18)		**18**
ANTH 1002	Understanding Cultural Diversity	
ART 3000	Art and Activism	
ART 3331	Art and Restorative Justice	
PSYC 3300	Positive Psychology	
SOC 3500	Criminology	
SOC 4900	Crime, Desistance, and Reentry	
Choose Two: (6)		**6**
ART 2280	From Teaching Artists to Social Practice: A History	
ART 2329	Xicanx Art	
ART 3520	Socially-engaged Art	
ART 3760	Border Art	
ART 4520	Leadership and Engagement in the Arts	
Total Units		**24**

Certificate in Video and Photography

The key objective of the Certificate in Video & Photography is for students to development creative, analytical, and technical skills that enable them to create and communicate using original videos and photography for art and commercial applications, as well as enter the field of video editing and other related fields.

This certificate will be of interest to students interested in: making video art and photography; all students whose field of study would benefit from photography/video production skills (art, anthropology, entrepreneurship, marketing, communications, for example); those who want to enter the fields of photography, videography, and/or video editing with either a creative/art perspective or for commercial purposes.

Total units required: 25

Core Requirements: (19)		
ART 2260	Beginning Photography	3
ART 3260	Intermediate Photography	3
ART 3710	Video Art	3
ART 4260	Advanced Photography + Video Art	3

COMM 3331	The Development of Motion Pictures	3
COMM 3353	Digital Video Field Production	4

Choose 2 electives from: (6) **6**

AH 3210	Visualizing Gender, Performing Identity
AH 3250	Topics and Themes of Art History and Exhibitions
AH 4250	Art History Seminar
ART 1140	Creative Technology for Artists
ART 2240	Beginning Imaging and Illustration
COMM 3354	Fundamentals of Screenwriting
DES 2600	Digital 3D and Time-Based Media
ENTR 3000	Entrepreneurship and Innovation
MUS 2266	Creating digital Media Using Personal Electronic Technology
TA 3141	The Improvisational Mind

Department of Communication & Media

University Hall, Room 018
(909) 537-5815 Department of Communication & Media website (http://communication.csusb.edu)

Defined as "the creation, transmission and evaluation of messages," communication is a multifaceted discipline combining both academic and professional interests.

Through courses in communication, students learn to describe, interpret and evaluate the communication processes as they occur within and among individuals, groups, organizations and societies. Students explore problems in diverse media (platform, conference, print, radio, television, film, digital media), settings (family, industrial, professional, governmental) and contexts (racial, cultural, international).

The educational objectives established for the degree program in communication are the following terminal competencies: understand relationships between symbols and culture, discover information from its sources, describe characteristics of potential audiences, translate information into an audience's conceptual framework, transmit information/messages clearly in media appropriate to the audience, evaluate messages and their effects on audiences and appreciate the ethics of communication.

By the mid-1980s more than half of the country's gross national product was spent on information products and services. Communication is the means by which information is shared. The growth of communication studies reflects, in part, a growing technology permitting spoken language to move from the forum of Greece to the surface of the moon and around the planet in mere moments.

Communication majors enter careers in business and industry, government and social services, education, media and the professions in positions of public relations, marketing, teaching, sales, media production, writing, personnel, on-air media, advertising and training. Men and women across the ages have testified how the study of communication aided their personal and professional lives, whether they be persuaders, conciliators, diplomats, teachers and scholars, or researchers.

In today's world of changing and integrated communications technology, the department's curriculum reflects the belief that communication should be studied as a single discipline integrated into the liberal arts. Practica and internships support but do not substitute for a sound theoretical base. Internships are available on and off campus in the full range of communication professions.

Departmental Honors

Students majoring in communication are eligible to receive honors in communication at graduation if the following conditions are met:

1. At least one-half of the course work required by the major is completed at this university;
2. At least a 3.5 grade point average in the major;
3. An overall grade point average of 3.5 or better;
4. An independent study course that culminates in a research presentation to the department;
5. Recommendation for departmental honors by the Communication Studies faculty.

Students interested in this recognition must file a formal application with the department and enroll in an Independent Study at least one semester prior to graduation.

JournalismUndergraduate Degree

Bachelor of Arts

- Communication (p. 172) with concentrations in: (p. 172)
  - Relational and Organizational Communication
  - Media Studies
  - Strategic Communication
  - Specialized
- Journalism (p. 174)
- Leadership Communication (p. 175)

Graduate Degree

Master of Arts

- Communication Studies (p. 170)

Minors

- Communication (p. 176)
- Digital Filmmaking (p. 176)
- Film Studies (p. 177)
- Media Studies (p. 176)
- Relational & Organizational Communication
- Strategic Communication (p. 178)

Certificate

- Arts and Entrepreneurship (p. 167)
- Social Media Entrepreneurship and Innovation (p. 178) (offered online through the College of Extended Learning (http://cel.csusb.edu/))

Master of Arts in Communication Studies

The Master of Arts in Communication Studies is designed for students who wish to advance from this degree to further graduate work and for those wishing to apply advanced communication perspectives, methodologies, and competencies in their careers.

Admission to the Program

Applicants must fulfill all the general requirements for admission to graduate studies at this University. The program welcomes applications from international students and advises them to review the program's English language proficiency requirements (see D. below).

To be admitted to the graduate program in Communication Studies:

The applicant must submit to the Graduate Admissions Office (in addition to all other required materials):

A. 1. Three letters of recommendation attesting to the applicant's character, academic aptitude, accomplishments, and potential for success at the graduate level.Applicants are encouraged to secure letters of recommendation from former faculty. Letters from other individuals who can attest to the applicant's potential for success in graduate school are also welcome.
   2. A 5- to 10-page sample of academic or professional writing; and
   3. A one- to two-page, single-spaced essay describing: the applicant's interests in Communication Studies; their motivation for pursuing a Master's degree; why they are applying to CSUSB's M.A. in Communication Studies, specifically; and how graduate study will help them achieve their personal and/or professional goals.
      Note: If the applicant wishes to be considered for a Graduate Teaching Associateship, the applicant must also submit:
      1. a curriculum vitae or resume; and
      2. a one-page statement of intent outlining related experience along with the other application material.

B. The applicant must have completed 6-semester units of undergraduate classes in communication theory and communication research methods, or their equivalents

C. The applicant must have earned an undergraduate grade point average of 3.0 overall and/or 3.0 for the last 60 semester units or 90 quarter units of undergraduate work. In exceptional cases, students with a GPA below 3.0 will be considered. Please contact the graduate coordinator.

D. International students must have received a minimum score of: 550 on the TOFEL Paper-Based Exam; 79 on TOFEL iBT; or 6.0 on IELTS Indicator Overall.

Applicants may also be asked to interview with the program coordinator or graduate committee.

Successful applicants are admitted to the program as conditionally classified graduate students. Advancement to classified status is conditional upon the completion of all prerequisites, as well as completion (after admission) of the following course with a grade of "B-" or higher:

COMM 6000	Introduction to Graduate Study	3

Graduate Associateships

A limited number of graduate associateships are available, on a competitive basis, for students who wish to pursue the degree full-time. Interested applicants should contact the graduate coordinator in the Department of Communication Studies for further information.

Advancement to Candidacy

1. During the first semester of enrollment, the student shall, with the consent of the faculty member chosen and the approval of the graduate coordinator, select an advisor.
2. Prior to completion of 12 units, the student and advisor shall form the student's graduate advisory committee. The committee shall consist of the advisor and two faculty members, one of whom may be from a related discipline. The committee shall function to:
   a. approve the student's program of study;
   b. compose and evaluate the student's comprehensive examination (if applicable); and
   c. evaluate and approve the student's thesis or project (if applicable).
3. Upon establishing the committee, and prior to completion of 15 units, the student shall forward for the committee's approval a plan of study listing coursework to be taken and the culminating experience chosen to complete the degree. The plan of study should reflect some unifying theme.
4. Upon approval of the plan by the advisory committee, the program of study shall be sent to the graduate coordinator for departmental approval resulting in advancement to candidacy.

Requirements for Graduation

1. Students must complete an approved program of 30 units with a minimum overall grade point average of 3.0 at this university.
2. Students must receive a "B-" or higher in all required courses.
3. No more than 6 units at the 4000- or 5000-level may count towards the degree. Courses at the 1000, 2000, and 3000 level may not count toward the degree.
4. No course may be counted for which a grade of "C-" or less was received.
5. The student is responsible for fulfilling all other requirements for graduation established by the Graduate Studies Office.

Degree Requirements (30 units)

(Program Code: COMS)

Note: Students must receive a grade of "B-" or higher in all required courses.

Required/Core Courses (12)		**12**
COMM 6000	Introduction to Graduate Study	
COMM 6001	Theoretical Perspectives in Communication Studies	
COMM 6002	Quantitative Research Methods in Communication Studies	
COMM 6003	Qualitative Research Methods in Communication Studies	
Electives (12-15)		**12-15**

Students choose from the following elective courses. Those completing a Master's thesis or graduate project as their culminating experience choose 12 elective units. Those completing a comprehensive examination choose 15 elective units.

Students choose their elective courses with the advice and approval of their advisory committee and the graduate coordinator. In doing so, all parties are strongly encouraged to include 6000-level Communication Studies courses in the student's plan of study, if feasible and appropriate. These courses have been specifically developed for graduate students pursuing the Master of Arts in Communication Studies.

Students may, with the approval of the advisory committee and the graduate coordinator, substitute up to six total units of course work from disciplines other than Communication Studies. Students cannot apply to this degree any course previously applied to another degree or track.

COMM 5222	Mediation Theory and Practice
COMM 5267	Advanced Topics in Relational and Organizational Communication
COMM 5280	Culture and Ethnicity in Language
COMM 5301	Media Sex and Violence
COMM 5302	Communication Law and Policy
COMM 5303	Muslim Women in Media and Society
COMM 5311	Fundamentals of Social Media Management
COMM 5312	Political Economy of Social Media Communication
COMM 5313	Audience Analysis in Social Media
COMM 5314	Social Media for Social Good
COMM 5319	Advanced Topics in Media Studies
COMM 5339	Advanced Topics in Film Studies
COMM 5359	Advanced Topics in Digital Production
COMM 5379	Advanced Topics in Multimedia Journalism
COMM 5401	Crisis Communication
COMM 5419	Advanced Topics in Strategic Communication
COMM 5892	Communication Teaching Shadowship
COMM 6009	Digital Cultures
COMM 6010	Digital Methods in Communication Research
COMM 6011	Political Economy of Communication
COMM 6012	Special Topics in Film/Cinema Studies
COMM 6013	Special Topics in Gender and Communication
COMM 6014	Special Topics in Applied Communication
COMM 6030	Instructional Communication
COMM 6070	Special Topics in Conflict and Conflict Resolution
COMM 6071	Global Communication
COMM 6075	Strategic Communication
COMM 6090	Special Topics in Organizational Communication
COMM 6091	Special Topics in Public Relations
COMM 6092	Special Topics in Interpersonal Communication
COMM 6093	Special Topics in Media Studies
COMM 6094	Special Topics in Intercultural Communication
COMM 6752	Graduate Internship in Communication
COMM 6753	Graduate Internship in Communication
COMM 6754	Graduate Internship in Communication
COMM 6951	Graduate Independent Study
COMM 6952	Graduate Independent Study
COMM 6953	Graduate Independent Study
COMM 6954	Graduate Independent Study
Culminating Experience Preparation/Proposal (3)	**3**
COMM 6084	Comprehensive Examination Preparation
or COMM 6085	Thesis or Project Proposal
Culminating Experience (0-3)	**0-3**
Total Units (30)	**30**

Culminating Experience (0-3 units)

Students will choose one of the following culminating experiences to complete their program.

Comprehensive Examination Option (0 units)

Students may, with the approval of their advisory committee and graduate coordinator, fulfill the culminating experience requirement through a comprehensive examination. The examination tests the student's mastery of perspectives and competencies in the core curriculum as well as those associated with the individual student's program of study. The examination will be developed and evaluated by the student's advisory committee, administered during the student's final semester in residence, and carry **no academic credit**. Students choosing this option must take 15 units of electives and register for:

COMM 6980	Comprehensive Examination	0

Thesis Option (3 units)

Students may, with the approval of their advisory committee and the graduate coordinator, fulfill the culminating experience requirement by developing and executing an original research project designed to extend or apply our understanding of communication in important and unique ways. The proposal must be approved by the advisory committee, and filed with the Graduate Coordinator. The student will make a public defense of the thesis during the last semester of residence. The completed thesis must be approved by the advisory committee and the Dean of the Graduate School. Students choosing this option must take 12 units of electives and register for:

COMM 6973	Thesis	3

Project Option (3 units)

Students may, with the approval of their advisory committee and the graduate coordinator, fulfill the culminating experience requirement by developing and executing a project with a significant written component. The project shall be developed between the student and the advisor. The proposal must be approved by the advisory committee, and filed with the

Graduate Coordinator. The written component of the project must follow specified guidelines, be approved by the advisory committee, and will be presented publicly during the student's last semester in residence. The completed project must be approved by the advisory committee and the Dean of Graduate Studies. Students choosing this option must must take 12 units of electives and register for:

COMM 6963	Graduate Project	3

Bachelor of Arts in Communication

Communication and media shape the ways we understand and interact in our social worlds. The 45-unit Bachelor of Arts in Communication degree helps students develop valuable communication understandings and skills through a deep, practical, timely, and relevant curriculum. Five core courses expose students to major communication institutions and processes, theoretical perspectives and research techniques for studying those phenomena, and career pathways and ethical considerations for communication professionals. Students deepen these understandings and sharpen their skills by specializing in one of three concentrations: Relational and Organizational Communication, Media Studies, and Strategic Communication. Further, a wide range of Experiential Learning courses gives students hands-on experience in communication and media practices to prepare them for their careers. Together, this mix of theory and practice prepares students for a lifetime of personal, civic, and professional communication, including careers in various fields, such as: human resources, training and development; journalism, broadcasting, and filmmaking; digital/social media strategy and management; strategic communication for corporations, non-profits, and government entities; and many others.

Requirements (45 units)

Total units required for graduation: 120

Requirements for the B.A. in Communication

Core course requirements (15)		
COMM 2101	Introduction to Communication Studies	3
COMM 3101	Communication, Self, and Others	3
COMM 3102	Media, Culture, and Society	3
COMM 4101	Communication Research Methodology	3
COMM 4102	Ethical Aspects of Communication	3
Experiential Learning requirements (6)		
Students choose six units from at least two of the following experiential learning courses. In these courses, students apply Communication theories and practices in supervised, "hands-on" activities, and they reflect on those experiences.		6
Students can only apply six experiential learning units toward the B.A. in Communication; however, additional experiential learning units may contribute to a minor (where applicable), or to a student's general graduation requirements (120 units).		
Experiential learning courses may not be used as elective units, either in the B.A. in Communication or its respective concentrations.		
COMM 2291	Practicum in Relational and Organizational Communication	
COMM 2292	Practicum in Mentoring	
COMM 2293	Practicum in Intercollegiate Forensics: Coyote Debate	
COMM 2391	Practicum in Multimedia Journalism: Coyote Chronicle	
COMM 2392	Practicum in Digital Audio and Radio	
COMM 2393	Practicum in Television Journalism Production: Local Matters	
COMM 2491	Practicum in Strategic Communication: Coyote PR	
COMM 2492	Practicum in Advertising: Coyote Advertising	
COMM 2592	Practicum in Communication Research	
COMM 2593	Service Learning in Communication	
COMM 4291	Advanced Practicum in Relational and Organizational Communication	
COMM 4292	Advanced Practicum in Mentoring	
COMM 4293	Advanced Practicum in Intercollegiate Forensics: Coyote Debate	
COMM 4391	Advanced Practicum in Multimedia Journalism: Coyote Chronicle	
COMM 4392	Advanced Practicum in Digital Audio and Radio: Coyote Radio	
COMM 4393	Advanced Practicum in Television Journalism Production: Local Matters	
COMM 4491	Advanced Practicum in Strategic Communication: Coyote PR	
COMM 4492	Advanced Practicum in Advertising: National Student Advertising Competition team	
COMM 4592	Advanced Practicum in Communication Research	
COMM 5792	Internship in Communication	
COMM 5793	Internship in Communication	
COMM 5794	Internship in Communication	
COMM 5892	Communication Teaching Shadowship	
Electives (6)		
In addition to the Communication core, experiential learning, and concentration coursework, students choose six elective units in COMM coursework to broaden and deepen their understandings of communication processes.		6
Students can only apply six elective units toward the B.A. in Communication; however, additional elective units may contribute to a minor (where applicable), or to a student's general graduation requirements (120 units).		
Elective courses should be chosen in consultation with an advisor and, in the case of non-departmental electives, the approval of the chair. COMM 1000, 1002, 1006, and 1007 may not be applied toward the B.A. in Communication.		
Three of the six elective units must be upper division.		
Concentration (18)		
A minimum of 18 units from one of the following concentrations below to be chosen in consultation with an advisor.		18
Total Units		**45**

Note: Transfer students from a California community college who earned an appropriate Associate Degree for Transfer (AA-T or AD-T) in communication may complete the B.A. in Communication by selecting any of the three concentrations.

Concentrations (18 units)

Relational and Organizational Communication Concentration (18 units)

(Program Code: CMRO)

Core (9)		
Note: Twelve of the 18 units in this concentration must be upper division.		
COMM 2201	Intercultural Communication	3
COMM 4202	Relational Communication	3
COMM 4203	Organizational Communication	3
Electives (9)		
Nine units chosen from:		9
COMM 2231	Small Group Communication	
COMM 2251	Fundamentals of Interpersonal Communication	
COMM 3211	Business and Professional Communication	
COMM 3212	Persuasion	
COMM 3227	Topics in Relational and Organizational Communication	
COMM 3230	Nonverbal Communication	
COMM 3231	Communication for Training Programs	
COMM 3236	Health Communication	
COMM 4211	Communication and Gender	
COMM 4222	Communication and Conflict	
COMM 4231	Classroom Communication	
COMM 4241	Interviewing	
COMM 5222	Mediation Theory and Practice	
COMM 5267	Advanced Topics in Relational and Organizational Communication	
COMM 5280	Culture and Ethnicity in Language	
COMM 5952	Independent Study	
COMM 5953	Independent Study	
COMM 5954	Independent Study	
Total Units		**18**

Media Studies Concentration (18 units)

(Program Code: CMMS)

Core (9)		
COMM 3301	Media Institutions in Context	3
COMM 3305	Digital Media and Society	3
COMM 2301	Newswriting and Reporting	3
or COMM 3354	Fundamentals of Screenwriting	
Electives (9)		
Nine units chosen from any of the following areas:		9
Media Studies		
COMM 3319	Topics in Media Studies	
COMM 4301	Gender, Race, and Class in Media	
COMM 4302	Latinx, Media, and Cultures	
COMM 4303	Global Communication	
COMM 4304	Media Effects	
COMM 4305	Advertising as Social Communication	
COMM 5301	Media Sex and Violence	
COMM 5302	Communication Law and Policy	
COMM 5303	Muslim Women in Media and Society	
COMM 5319	Advanced Topics in Media Studies	
Film Studies		
COMM 3331	The Development of Motion Pictures	
COMM 3332	Movies in the Digital Age	
COMM 3333	Film Analysis	
COMM 3334	Global Cinema	
COMM 3339	Topics in Film Studies	
COMM 5339	Advanced Topics in Film Studies	
Digital Production		
COMM 2351	Television Studio Production	
COMM 3335	Visual Communication	
COMM 3351	Introduction to Digital Video Editing	
COMM 3353	Digital Video Field Production	
COMM 3354	Fundamentals of Screenwriting [1]	
COMM 3359	Topics in Digital Production	
COMM 3361	Digital Audio and Radio Production	
COMM 4355	Digital Filmmaking I	
COMM 4356	Digital Filmmaking II	
COMM 5359	Advanced Topics in Digital Production	
Multimedia Journalism		
COMM 2301	Newswriting and Reporting [1]	
COMM 3371	Multimedia Journalism	
COMM 3372	Publication Design	
COMM 3379	Topics in Multimedia Journalism	
COMM 5379	Advanced Topics in Multimedia Journalism	
COMM 5952	Independent Study	
COMM 5953	Independent Study	
COMM 5954	Independent Study	
Total Units		**18**

[1] If not already completed as a concentration core course.

Strategic Communication Concentration (18 units)

(Program Code: CMSC)

Core Requirements (15)		
COMM 2301	Newswriting and Reporting	3
COMM 3401	Introduction to Strategic Communication	3
COMM 3402	Writing for Public Relations	3
COMM 4401	Strategic Communication Campaigns	3
COMM 5401	Crisis Communication	3
Electives (3)		

Three units chosen from:		3
ADMN 1500	Introduction to Administration	
COMM 3211	Business and Professional Communication	
COMM 3212	Persuasion	
COMM 3236	Health Communication	
COMM 3372	Publication Design	
COMM 3403	Business Literacy for Strategic Communication	
COMM 3419	Topics in Strategic Communication	
COMM 5302	Communication Law and Policy	
COMM 5419	Advanced Topics in Strategic Communication	
ECON 2201	Principles of Microeconomics	
ENTR 3000	Entrepreneurship and Innovation	
MGMT 3900	Principles of Strategy	
MKTG 3050	Marketing Principles	
Total Units		**18**

Specialized Concentration (18 units)

(Program Code: CMSP)

Students may propose a unique, individualized and specialized 18-unit concentration if the proposed concentration is viable and if it fulfills objectives that cannot be met through one of the other Communication Studies concentrations (e.g., Media Studies, Relational and Organizational, and Strategic Communication). To be eligible for the Specialized Concentration, students must complete a proposal (pre-generated questions) for their program plan, including all the communication courses that they intend to take in the concentration and a rationale for the course of study. The proposal will be reviewed by a Communication Studies faculty advisor before a student can be approved for this concentration. Before declaring this concentration, a student must have completed the following core classes: COMM 2101, COMM 3101, and COMM 3102. Only 9 units of Communication Studies course work completed prior to such approval can be applied toward the specialized concentration. Importantly, not intended to bypass normal graduation requirements or to avoid certain requirements of a regular concentration offered by the department.

The Specialized Concentration Proposal Form can be located on the Department of Communication Studies website under FAQs: https://www.csusb.edu/communication-studies/graduate/frequently-asked-questions-0 (https://www.csusb.edu/communication-studies/graduate/frequently-asked-questions-0/)

Bachelor of Arts in Journalism

Pending Office of the Chancellor approval

The journalism degree program prepares students with vital skills in news reporting, digital storytelling, and media ethics essential for the evolving communication professions, journalism, and multimedia landscape. The curriculum of this program combines theoretical foundations, hands-on practice, and interdisciplinary journalism studies, which are grounded in digital literacy, awareness of cultural diversity, and media's political and economic impact. Courses will cover areas including news writing, multimedia reporting, community reporting, investigative and data journalism, photojournalism, video and magazine publishing, digital storytelling, media law, and communication ethics, equipping graduates with versatile skills for various careers in journalism and beyond. By engaging with local communities and examining national journalism practices as well as global trends, students will develop an understanding of the role of journalism in diverse societies. Graduates will emerge ready to contribute to society as critical thinkers, ethical journalists, and proactive media creators prepared to lead in the rapidly changing media and communication industry.

Degree Requirements (31 units)

Total units required for graduation: 120

Journalism Core Requirements (12)		
COMM 2301	Newswriting and Reporting (Journalism Core Requirements)	3
COMM 3301	Media Institutions in Context	3
COMM 3371	Multimedia Journalism	3
COMM 4378	Media and Journalism Ethics	3
Journalism Practica (4)		
Choose two units from:		2
COMM 2391	Practicum in Multimedia Journalism: Coyote Chronicle	
COMM 4391	Advanced Practicum in Multimedia Journalism: Coyote Chronicle	
Choose two units from:		2
COMM 2392	Practicum in Digital Audio and Radio	
COMM 2393	Practicum in Television Journalism Production: Local Matters	
COMM 4393	Advanced Practicum in Television Journalism Production: Local Matters	
COMM 5391	Advanced Practicum in Journalism	
COMM 5792	Internship in Communication	
COMM 5793	Internship in Communication	
COMM 5794	Internship in Communication	
Up to 2 units in addition to required practica courses above (4 units) could be counted toward electives.		
Journalism Electives (9)		
Choose nine units from:		9
COMM 2351	Television Studio Production	
COMM 3361	Digital Audio and Radio Production	
COMM 3379	Topics in Journalism	
COMM 5376	Data Journalism	
COMM 5377	AI in Journalism and Media	
COMM 5378	Community & Investigative Journalism	
COMM 5379	Advanced Topics in Journalism	
Communication & Media Electives (6)		
Choose six units from:		6
COMM 2451	Communicating Disability Studies	
COMM 3102	Media, Culture, and Society	
COMM 3319	Topics in Media Studies	
COMM 3333	Film Analysis	
COMM 3335	Visual Communication	
COMM 3351	Introduction to Digital Video Editing	
COMM 3353	Digital Video Field Production	
COMM 3354	Fundamentals of Screenwriting	

COMM 3372	Publication Design
COMM 3373	Risk Communication
COMM 3359	Topics in Digital Production
COMM 4101	Communication Research Methodology
COMM 4241	Interviewing
COMM 4301	Gender, Race, and Class in Media
COMM 4302	Latinx, Media, and Cultures
COMM 4222	Communication and Conflict
COMM 4303	Global Communication
COMM 4304	Media Effects
COMM 4305	Advertising as Social Communication
COMM 4355	Digital Filmmaking I
COMM 4356	Digital Filmmaking II
COMM 4401	Strategic Communication Campaigns
COMM 4543	Environmental Communication
COMM 5302	Communication Law and Policy
COMM 5311	Fundamentals of Social Media Management
COMM 5312	Political Economy of Social Media Communication
COMM 5313	Audience Analysis in Social Media
COMM 5314	Social Media for Social Good
COMM 5319	Advanced Topics in Media Studies
COMM 5952	Independent Study
COMM 5953	Independent Study
COMM 5954	Independent Study
COMM 5359	Advanced Topics in Digital Production
Total Units	**31**

Bachelor of Arts in Leadership Communication

Pending Office of the Chancellor approval

The Bachelor of Arts in Leadership Communication is an applied program that prepares students to become strategic thinkers, effective communicators and global leaders across various organizational settings. Students gain core knowledge and practical skills to address and solve communication challenges within and beyond the workplace. With this degree, students are well-prepared for leadership roles in business, nonprofit, government, and public sector organizations. Graduates leave equipped with the applied communication and leadership skills needed to manage teams, network, improve workplace culture, support change initiatives, and guide ethical and strategic decision making from within. The program focuses on how organizations align members, processes, structures, and purposes through effective leadership and communication strategies. It also emphasizes key organizational functions, including team building, decision making, problem solving, conflict resolution, and structured communication practices, which facilitate the exchange of information across all levels of an organization. Students will also learn how to assess communication contexts including interpersonal conflict, organizational culture, and multisystem goals; analyze, establish, and navigate organizational networks; and lead communication initiatives rooted in theory and practice.

Drawing from multiple areas of the communication field—including interpersonal, organizational, health, group, instructional, and research analytics—this major empowers students to develop and implement long-range communication and leadership strategies that support organizational missions and goals.

Degree Requirements (43 units)

Total units required for graduation: 120

Core Requirements (18)		
COMM 2105	Foundations for Leadership Communication	3
COMM 3211	Business and Professional Communication	3
COMM 4203	Organizational Communication	3
COMM 4101	Communication Research Methodology	3
COMM 4102	Ethical Aspects of Communication	3
COMM 4107	Leadership Communication Capstone	3
Competencies (9)		
Choose nine units from the following:		9
COMM 2231	Small Group Communication	
COMM 3212	Persuasion	
COMM 4535	Organizational Listening	
COMM 4222	Communication and Conflict	
COMM 4241	Interviewing	
COMM 5542	Policy Communication: Contexts, Processes, & Consequences	
Contexts (12)		
Choose 12 units from the following:		12
COMM 3231	Communication for Training Programs	
COMM 3236	Health Communication	
COMM 4202	Relational Communication	
COMM 4211	Communication and Gender	
COMM 4231	Classroom Communication	
COMM 4401	Strategic Communication Campaigns	
COMM 4543	Environmental Communication	
COMM 5401	Crisis Communication	
COMM 5532	Political Communication	
COMM 5536	The Dark Side of Communication	
COMM 5537	Dangerous Liaisons	
Experiential Learning (4)		
Choose four units from the following:		4
COMM 2291	Practicum in Relational and Organizational Communication	
COMM 2292	Practicum in Mentoring	
COMM 2491	Practicum in Strategic Communication: Coyote PR	
COMM 2592	Practicum in Communication Research	
COMM 2593	Service Learning in Communication	
COMM 4291	Advanced Practicum in Relational and Organizational Communication	
COMM 4292	Advanced Practicum in Mentoring	
COMM 4491	Advanced Practicum in Strategic Communication: Coyote PR	
COMM 4592	Advanced Practicum in Communication Research	

COMM 5792	Internship in Communication	
COMM 5793	Internship in Communication	
COMM 5794	Internship in Communication	
COMM 5892	Communication Teaching Shadowship	
Total Units		**43**

Minor in Digital Filmmaking

The Minor in Digital Filmmaking provides students with the theory and practice of television studio production, digital video editing, screenwriting, and single-camera digital filmmaking. Students in the minor will gain a deep understanding of how to write, produce, direct, and edit the moving image. While the focus is digital filmmaking, these skills easily translate into other sound/image practices such as television and online technologies. Digital Filmmaking students typically pursue careers in film, television, multimedia journalism, and public relations.

Requirements for a minor in Digital Filmmaking (20 units)

Required courses (17)		
COMM 2351	Television Studio Production	4
COMM 3351	Introduction to Digital Video Editing	3
COMM 3353	Digital Video Field Production	4
COMM 4355	Digital Filmmaking I	3
COMM 4356	Digital Filmmaking II	3
Elective course (3)		**3**
COMM 3335	Visual Communication	
or COMM 3354	Fundamentals of Screenwriting	
Total Units		**20**

Minor in Media Studies

In the Minor in Media Studies, students gain understandings and skills for navigating and participating and working in our increasingly mediated social and cultural worlds. Media Studies students develop media literacies, theoretical and critical competencies, aesthetic and ethical sensibilities, and media production skills.The Minor's focus is on four main areas of theory and practice: (1) media studies, including media institutions, representations, uses, and effects; (2) film studies, including motion picture history, film aesthetics and analysis, and global cinema studies; (3) digital production, including digital filmmaking, and television and radio production; and (4) multimedia journalism, including newswriting and reporting, and the integrative use of audio, video, photography, text, and interactive tools for storytelling. In addition to using media for personal, social, and civic purposes, Media Studies students typically pursue careers in journalism, broadcasting, filmmaking, or digital/social media, or they continue their education in graduate programs.

Requirements for a minor in Media Studies (18 units)

Core requirements (6)		
COMM 3102	Media, Culture, and Society	3
COMM 3301	Media Institutions in Context	3
Elective requirements (12)		
Twelve units chosen from any of the following:		12
Media Studies:		
COMM 3305	Digital Media and Society	
COMM 3319	Topics in Media Studies	
COMM 4301	Gender, Race, and Class in Media	
COMM 4302	Latinx, Media, and Cultures	
COMM 4303	Global Communication	
COMM 4304	Media Effects	
COMM 4305	Advertising as Social Communication	
COMM 5301	Media Sex and Violence	
COMM 5302	Communication Law and Policy	
COMM 5303	Muslim Women in Media and Society	
COMM 5319	Advanced Topics in Media Studies	
Film Studies:		
COMM 3331	The Development of Motion Pictures	
COMM 3332	Movies in the Digital Age	
COMM 3333	Film Analysis	
COMM 3334	Global Cinema	
COMM 3335	Visual Communication	
COMM 3339	Topics in Film Studies	
COMM 5339	Advanced Topics in Film Studies	
Digital Production:		
COMM 2351	Television Studio Production	
COMM 3351	Introduction to Digital Video Editing	
COMM 3353	Digital Video Field Production	
COMM 3354	Fundamentals of Screenwriting	
COMM 3359	Topics in Digital Production	
COMM 3361	Digital Audio and Radio Production	
COMM 4355	Digital Filmmaking I	
COMM 4356	Digital Filmmaking II	
COMM 5359	Advanced Topics in Digital Production	
Multimedia Journalism:		
COMM 2301	Newswriting and Reporting	
COMM 3371	Multimedia Journalism	
COMM 3372	Publication Design	
COMM 3379	Topics in Multimedia Journalism	
COMM 5379	Advanced Topics in Multimedia Journalism	
Total Units		**18**

Minor in Communication

The Minor in Communication provides students with a broad understanding of the field through core courses in relational and organizational communication, theories of media, and ethical aspects of communication. Students then choose an additional 6 units in any area of communication and media studies that interest them: relational and organizational communication; media studies; film studies; digital media production; multimedia journalism; or strategic communication.

Requirements for a minor in Communication (18 units)

Lower-division requirement (3)		
COMM 2101	Introduction to Communication Studies	3
Upper-division requirements (9)		

COMM 3101	Communication, Self, and Others	3
COMM 3102	Media, Culture, and Society	3
COMM 4102	Ethical Aspects of Communication	3
Electives (6)		
Six additional units in Communication Studies. COMM 1000, COMM 1002, COMM 1006, and COMM 1007 may not be applied toward the minor.		6
Total Units		**18**

Minor in Film Studies

The Minor in Film Studies is ideal for students interested in learning about both film studies and digital media production. Students have the flexibility to take courses that focus on film aesthetics, history, and critical analysis of representation, and those that involve hands-on creation of moving image digital media. Each student can tailor the balance between film studies courses and digital production courses to their own interests. Requires 21 to 25 units.

Requirements for a minor in Film Studies (21-25 units)

Lower-division requirements (3-4)		**3-4**
Three or four units chosen from:		
ART 2260	Beginning Photography	
COMM 1020	Looking at Movies	
COMM 2351	Television Studio Production	
TA 1160	World Drama	
Upper-division requirements (18-21)		
Six units chosen from:		6
COMM 3331	The Development of Motion Pictures	
COMM 3335	Visual Communication	
ENG 3150	Studies in a Literary Genre ((when the topic is Film and Literature))	
Three units chosen from:		3
COMM 3332	Movies in the Digital Age	
COMM 3333	Film Analysis	
COMM 3339	Topics in Film Studies	
(when the topic is Contemporary Cinema and Society)		
Nine to twelve units chosen from the following two categories:		9-12
Film and Digital Media Theory and Criticism:		
COMM 3102	Media, Culture, and Society	
COMM 3301	Media Institutions in Context	
COMM 3334	Global Cinema	
COMM 3336	Queer Cinema	
ENG 3010	Analysis of Poetry and Drama	
FREN 3112	From Cannes to Cameroon: Francophone Cinema and Culture	
SPAN 4411	Special Topics in Spanish Language Cinema and/or Theatre	
TA 3602	Dramatic Analysis and Playwriting for Teachers	
Digital Media Production:		
ART 3710	Video Art	
COMM 3351	Introduction to Digital Video Editing	
COMM 3353	Digital Video Field Production	
COMM 3354	Fundamentals of Screenwriting	
COMM 3371	Multimedia Journalism	
DES 3600	Digital Motion Graphics	
TA 4242	Acting for the Camera	
Total Units		**21-25**

Minor in Relational and Organizational Communication

The minor in Relational and Organizational Communication enables students to engage in focused study of specific areas of communication studies including interpersonal, family, organizational, conflict, and intercultural communication. Students will complete nine units of core courses (Intercultural, Relational, and Organizational Communication), and will select nine units of concentration electives. The electives introduce students to both communication theory and praxis while preparing them for the professional world. This minor may be appropriate for students interested in honing their communication skills and deepening their understanding of relational and organizational communication.

Minor Requirements (18 units)

Core Courses (9)		
COMM 2201	Intercultural Communication	3
COMM 4202	Relational Communication	3
COMM 4203	Organizational Communication	3
Elective Courses (9)		
Nine units selected from the following:		9
COMM 2231	Small Group Communication	
COMM 2251	Fundamentals of Interpersonal Communication	
COMM 2291	Practicum in Relational and Organizational Communication	
COMM 2293	Practicum in Intercollegiate Forensics: Coyote Debate	
COMM 3211	Business and Professional Communication	
COMM 3212	Persuasion	
COMM 3227	Topics in Relational and Organizational Communication	
COMM 3230	Nonverbal Communication	
COMM 3231	Communication for Training Programs	
COMM 3236	Health Communication	
COMM 4211	Communication and Gender	
COMM 4222	Communication and Conflict	
COMM 4231	Classroom Communication	
COMM 4241	Interviewing	
COMM 4291	Advanced Practicum in Relational and Organizational Communication	
COMM 4293	Advanced Practicum in Intercollegiate Forensics: Coyote Debate	
COMM 5222	Mediation Theory and Practice	
COMM 5267	Advanced Topics in Relational and Organizational Communication	
COMM 5280	Culture and Ethnicity in Language	
No more than 4 Experiential Learning units (i.e. units from COMM 2291, COMM 2293, COMM 4291, or COMM 4293) may be applied toward the minor in Relational and Organizational Communication. In addition, Experiential Learning units that applied toward a major in Communication Studies may not count toward the minor in Relational and Organizational Communication.		
Total Units		**18**

Minor in Strategic Communication

Strategic communication involves the identification, establishment, and maintenance of mutually beneficial relationships between an organization and the various publics on whom it depends. The Minor in Strategic Communication prepares students in both traditional and digital communication skills, thereby readying them for careers in the global workforce.

Requirements for a minor in Strategic Communication (18 units)

Required Courses (15)		
COMM 2301	Newswriting and Reporting	3
COMM 3401	Introduction to Strategic Communication	3
COMM 3402	Writing for Public Relations	3
COMM 4401	Strategic Communication Campaigns	3
COMM 5401	Crisis Communication	3
Elective Course (3)		
Three units chosen from:		3
COMM 3403	Business Literacy for Strategic Communication	
COMM 3419	Topics in Strategic Communication	
COMM 5419	Advanced Topics in Strategic Communication	
ECON 2201	Principles of Microeconomics	
MKTG 3050	Marketing Principles	
ADMN 1500	Introduction to Administration	
ENTR 3000	Entrepreneurship and Innovation	
MGMT 3900	Principles of Strategy	
Total Units		**18**

Certificate in Social Media Entrepreneurship and Innovation

Requirements (24 units)

Offered online through the College of Extended Learning

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or

3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (18 units)

COMM 3305	Digital Media and Society	3
COMM 5302	Communication Law and Policy	3
COMM 5311	Fundamentals of Social Media Management	3
COMM 5312	Political Economy of Social Media Communication	3
COMM 5313	Audience Analysis in Social Media	3
COMM 5314	Social Media for Social Good	3
Total Units		**18**

Department of English

University Hall, Room 334
(909) 537-5824 Department of English website (http://english.csusb.edu)

Like English departments in most colleges and universities, the English Department at California State University, San Bernardino is devoted to the study of literature and language. The major in English consists of a common core and five concentrations. The core provides background for more advanced courses, with offerings in English literature, American literature, analysis of particular genres, writing studies, creative writing, literary theory, and introduction to linguistics.

The Creative Writing Concentration gives students the opportunity to study and create work in a range of genres and across a variety of platforms. The Linguistic Concentration enables students to understand human language in its many facets: its history, its structure, its variation, its relationship with society and culture, and how it is acquired by children and adults.The Literature Concentration offers courses focused on particular themes, genres, authors, topics, and periods. The Rhetoric and Writing Studies Track offers students opportunities to study and practice rhetoric, writing, teaching, and literacy from a variety of theoretical perspectives and in a range of academic, public, and professional contexts. The Self-Directed Study Concentration allows students, working with a faculty advisor and with departmental approval, to combine courses into a unique program of study.

The English Department also sponsors *The Pacific Review*, a literary journal mingling professional and student contributions. Work on this journal provides excellent training for students in editorial work.

As language and culture are understood best in a global context, the English Department encourages students to participate in the California State University's International Programs (p. 14).

Departmental Honors

Students majoring in English are eligible to receive honors in English at graduation if they have:

1. Completed at least one-half of the course work required in the major at this university;
2. Earned a grade point average of at least 3.5 in all courses attempted in the major at this university;
3. Earned an overall undergraduate grade point average of at least 3.0;
4. Successfully completed ENG 5170. Honors Project.

Current Faculty

Taofeeq Adebayo, Assistant Professor of English
B.A. 2013, Obafemi Awolowo University, Ile-Ife
M.A. 2019, Ph.D. 2022 Tulane University, New Orleans

Jennifer L. Andersen, Professor of English
B.A. 1988, University of California, Los Angeles
M.A. 1991, Ph.D. 1996, Yale University

David Carlson, Professor of English
B.A. 1992, Colgate University
M.A. 1994, Ph.D. 2000, Indiana University

Alexandra Cavallaro, Associate Professor of English
B.A. 2008, Kutztown University Of Pennsylvania
M.A. 2009, Ph.D. 2015, University Of Illinois, Urbana

Alicia Escobedo, Assistant Professor of English
Ph.D. 2024, University of San Diego

Miriam Fernandez, Associate Professor of English
B.A. 2007, University of California-Los Angeles
M.A. 2013, California State University, Fresno
Ph.D. 2018, Washington State University

Thomas Girshin, Professor of English
B.A. 2003, University of Albany
M.A. 2006, Binghamton University
Ph.D. 2012, Binghamton University

Erin Hall, Associate Professor of English
M.S. 2006, University of British Columbia
M.A. 2012, University of Toronto
Ph.D. 2020, University of Toronto

Sung-Heh Hyon, Professor of English
B.A. 1989, University of California, San Diego
Ph.D. 1995, University of Michigan

Jasmine Lee, Associate Professor of English
B.A. 2008, UC San Diego
M.A. 2011, Cal State San Bernardino
Ph.D. 2018, UC Irvine

Chad Luck, Professor of English
B.A. 1994, University of Washington
M.A. 2001, Ph.D. 2006, Indiana University

Jessica Luck, Professor of English, Chair, Chair
B.A. 1996, M.S. 1997, University of Tennessee
M.A. 1999, Wake Forest University
Ph.D. 2006, Indiana University

David Marshall, Professor of English
B.A. 1993, College of the Holy Cross
M.A. 1998, University of York

Ph.D. 2007, Indiana University

Vanessa Ovalle Perez, Associate Professor of English
B.A. 2010, Cornell University
M.A. 2017, University of Southern California
Ph.D. 2019, University of Southern California

Angela Penaredondo, Associate Professor of English
B.A. 2007, San Francisco State
M.F.A. 2013, University of California, Riverside

Luz Ramirez, Professor of English
B.A. 1991, Tulane University
M.A. 1994, Ph.D. 1998, University of Texas, Austin

Jonathan Robinson Anthony, Assistant Professor of English
B.A. 2013, California State University, East Bay
B.S. 2014, Utah State University
M.S. 2016, San Francisco State University
Ph.D. 2022, San Diego State University/University of California San Diego Joint Doctoral Program

Karen Rowan, Professor of English
B.A. 1996, Guilford College
Ph.D. 2005, State University of New York at Albany

Kate Simonian, Assistant Professor of English
B.A. 2010, University of Sydney
M.A. 2012, Fiction CUNY - Brooklyn College
Ph.D. 2020, Texas Tech University

Robert Kyriakos Smith, Assistant Professor of English
B.A. 2003, Occidental College
M.A. 2009, Loyola Marymount University
Ph.D. 2020, University of California, Los Angeles

J. Chad Sweeney, Professor of English
B.A. 1993, University of Oklahoma Norman Campus
M.F.A. 2006, California State University, San Francisco
Ph.D. 2011, Western Michigan University

Maxine Van Doren, Assistant Professor of English
Ph.D. 2024, University of San Diego

Caroline H. Vickers, Professor of English
B.A. 1994, University of Georgia
M.S. 1997, Georgetown University
Ph.D. 2004, University of Arizona

Izzy Wasserstein, Assistant Professor of English
B.A. 2003, Washburn University of Topeka
M.F.A. 2006, University of New Mexico

Emeriti

James Brown

Rong Chen

J. Milton Clark

Juan Delgado

Margaret S. Doane

Bertram Fairchild, Jr.

Ellen Gil-Gomez

Bruce Golden

Charles V. Hartung

Carol P. Haviland

Holly Henry

Robert A. Lee

Loralee MacPike

Clark Mayo

Susan Meisenhelder

Theron Pace

E. Phillip Page

Elinore H. Partridge

Renee Pigeon

Jacqueline R. Rhodes

Treadwell Ruml, II

Peter R. Schroeder

Wendy Smith

Edward M. White

Salaam Y. Yousif

Undergraduate Degree

Bachelor of Arts

- English (p. 186) with concentrations in:
  - Creative Writing
  - Linguistics
  - Literature
  - Rhetoric and Writing Studies
  - Self-Directed Study
- Speech-Language Pathology (p. 188)

Bachelor of Science

- Computational Linguistics and Artificial Intelligence (p. 189)

Graduate Degree

Master of Arts

- English and Writing Studies (p. 181) with concentrations in:
  - Applied Linguistics and Teaching English as a Second Language
  - Composition and Rhetoric
  - Literature
  - Pedagogy
  - Public and Professional Writing
- Speech-Language Pathology (p. 184)

Minors

- Border Studies (p. 190)
- Creative Writing (p. 191)
- English (p. 191)
- English Teacher Preparation (p. 193)
- Linguistics (p. 193)
- Multimedia Storytelling (p. 193)
- Speech-Language Pathology

Certificates

Creative Writing (p. 194)

Speech-Language Pathology Master's Preparatory

Teaching English as a Second Language (p. 195)

Teaching Writing (p. 196)

Writing: Public and Professional Writing (p. 196)

Master of Arts in English and Writing Studies

The Master of Arts in English and Writing Studies is designed for students interested in pursuing advanced studies in the related fields of linguistics, literature, composition and rhetoric, as well as English pedagogy and public and professional writing.

With its firm grounding in theory, research, and pedagogy, the M.A. in English and Writing Studies prepares students to excel as scholars, as writers, and as teachers of writing, literature, linguistics, and English as a second language. The mission of the graduate program is to engage students in an exploration of how written and spoken texts work rhetorically and stylistically, as well as how historical, cultural, and social conditions affect the ways in which speakers, writers, and readers construct meaning. In addition, the program provides students with a strong foundation for pursuing a Ph.D. degree. The M.A. enables students, whatever their career path, to become socially committed, rhetorically flexible scholars, teachers and writers, well-prepared to make significant contributions in their chosen fields and communities, both local and global.

The Graduate Committee, under the leadership of the graduate coordinators, has general supervision of the program and the work of students. Students are required to consult regularly with the graduate coordinators for advising. Petitions for waiver of requirements must be approved by the graduate coordinators and the Dean of Graduate Studies when appropriate.

The B.A. in English + M.A. in English and Writing Studies 4+1 Option is a possible pathway for students who wish to complete both degrees. The B.A. in English + M.A. in English and Writing Studies provides an accelerated, time intensive pathway to the completion of the graduate degree by allowing undergraduate students to take 4 graduate level courses (12 units) while in undergraduate status. These 12 graduate level units can double count toward both the undergraduate and graduate degree requirements. Admission to the B.A. in English + M.A. in English and Writing Studies is open only to students who have a cumulative undergraduate GPA of 3.0 or an average GPA of 3.0 in undergraduate coursework in English completed at the time of the application. Students who have a lower GPA than 3.0 may still apply and will be evaluated based on the strength of their other supporting materials. Admission must be approved by the Department of English following the C.A.P.E Scholars Program policies and procedures (Coyote Accelerated Postbaccalaureate Education). Furthermore, students who do not maintain a 3.0 GPA upon completion of the B.A. in English will not be permitted to move to graduate status and will graduate with the B.A.

Students in the B.A. in English + M.A. in English and Writing Studies 4+1 program may choose from the following three concentrations for the BA and MA.

- BA in English – Linguistics Concentration + MA in English & Writing Studies – Applied Linguistics and TESL Concentration
- BA in English – Literature Concentration + MA in English & Writing Studies – Literature Concentration
- BA in English – Rhetoric & Writing Studies Concentration + MA in English & Writing Studies – Composition and Rhetoric Concentration

Admission to the Program

The Graduate Committee cannot act on applications until they have been reviewed by the Office of Admissions and Student Recruitment and have met university admissions requirements. Please check the MA in English and Writing Studies website and/or the office of Graduate Studies for the specific schedule of application due dates for each year. The program admits students in both Fall and Spring semesters.

A student who meets all entrance requirements except one or more course prerequisites or the minimum grade requirements may be admitted to the program as a conditionally classified graduate student. Conditionally classified students must fulfill certain conditions (such as taking or retaking prerequisite courses) within a specified period of time. Prerequisite courses are not be counted toward the units required for the master's degree.

The specific requirements for admission as a classified graduate student in the English Department are:

1. Typically, a grade point average of 3.0 ("B") in all undergraduate English upper-division courses. However, a student's undergraduate GPA or score on a test does not always predict their potential for success and should not exclude them from consideration. Therefore, the MA in English and Writing Studies takes a holistic approach to the admissions process, considering a broad range of candidate qualities, including a student's personal attributes, past experiences, and future goals, and how those might contribute to a good fit with our program and its values and objectives. Moreover, we do not require or consider GRE scores for admission.
2. For applicants who do not possess a bachelor's degree from a postsecondary institution in a country where English is the principal language of instruction, the program suggests a minimum score of 575 (computer-based score of 233 or internet-based score of 90) on the Test of English as a Foreign Language (TOEFL), or a minimum score of 6.5 on the International English Language Testing System (IELTS), in order to be successful. If an applicant does not meet that score, they may request an interview for individual assessment.
3. Two letters of recommendation supporting the student's application. Letters should be from people able to make relevant comments on the student's likely success in English and Writing Studies with a Concentration in Composition and Rhetoric; Literature; Linguistics; Pedagogy; or Public and Professional Writing.

4. A one-page personal statement giving a sense of who the student is and their particular interests and goals in pursuing a graduate degree. See the M.A. in English and Writing Studies website for potential prompts and tips for writing the personal statement.
5. A 5-10 page writing sample that showcases the student's ability to think critically and articulate their ideas in writing.

The M.A. in English and Writing Studies welcomes all applicants regardless of previous field of study or work. To ensure students are prepared for the rigor of graduate work in English and Writing Studies, students may be admitted "conditionally." Students who do not have an undergraduate degree in a relevant field, such as English, Linguistics, Literature, Rhetoric/Composition, TESL, Creative Writing, or Writing Studies, may take prerequisite coursework to prepare them for the program. These prerequisite courses are specified at the time of admission by the graduate coordinator and can be taken by students as they begin the MA program.

Admission to the 4+1 Option (blended) Program

In addition to the general requirements of the university, specific requirements for being invited into the English BA/MA 4+1 Option (blended) are:

1. Invitee must be a CSUSB undergraduate student with at least a junior year academic standing with at least 60 units completed;
2. Invitee must apply before the completion of 90-105 semester units;
3. Invitee must have completed at least three courses from a concentration within the Bachelor of Arts in English program with a GPA of 3.0 or higher across all three courses;
4. Invitee's overall CSUSB grade point average (GPA) should be 3.0 or higher or an average GPA of 3.0 in undergraduate coursework in English. Students who have a lower GPA than 3.0 may still apply and will be evaluated based on the strength of their other supporting materials.
5. Invitee should submit two letters of recommendation supporting their application. Letters should be from people able to make relevant comments on the student's ability to succeed in an accelerated BA/MA blended program in their chosen concentration.
6. Invitee should submit a one-page personal statement giving a sense of who the student is and their particular interests and goals in pursuing a graduate degree.
7. Invitee should submit a 5-10 page writing sample that showcases the student's ability to think critically and articulate their ideas in writing.

Students who accept invitation into the English BA/MA 4+1 program shall be designated as CAPE undergraduates until the BA is conferred. Then they will move to CAPE graduate status.

Advancement to Candidacy

To be advanced to candidacy, the student must have:

1. Achieved classified status;
2. Completed at least 12 units of coursework required by the program with a grade point average of at least 3.0 ("B");
3. Filed a program plan approved by the Graduate Coordinator.

Requirements for Graduation

1. A minimum of 30 semester units of acceptable graduate-level coursework (5000-level and 6000-level) in the formal program, with no fewer than 21 units completed at CSUSB and no fewer than 24 units completed in 6000-level courses.
2. Advancement to candidacy;
3. A grade point average of at least 3.0 ("B") in all graduate coursework fulfilling the requirements of the student's concentration, and grades of "C" (2.0) or better in all courses in the program;
4. For students in all concentrations, demonstrated minimal competence in a language other than English. Can be fulfilled by one of the options below, but note that a course taken to fulfill the language requirement cannot be applied toward any graduate degree unit requirements. After completing one of these options, students will write a brief reflection (400-500 words) about the experience and submit the reflection to their coordinator.
   a. One semester of college course work (with a grade of A, B, C, or CR) studying a language other than English;
   b. Attesting to fluency in a language other than English;
   c. Meaningfully incorporating multilingual texts in the thesis project.
5. The graduation writing requirement is met upon successful completion of the thesis or comprehensive examination;
6. The program must be completed within a seven-year period. No more than seven years may elapse between the time of registration for the earliest course listed on the program and the completion of all requirements for the degree. Students who have taken any required or elective course that expires because it exceeds this seven-year limitation will be required to retake the course or its equivalent as designated by the graduate coordinator, regardless of the grade originally earned. Petitions to waive this requirement will not be approved.

Note: Students interested in pursuing dual concentrations should contact their graduate coordinator about dual concentration requirements.

Degree Requirements (30 units)

Before enrolling in courses, students should consult the course descriptions for course prerequisites.

ENG 6000	Critical Approaches to Literature	3
ENG 6090	Cultures of Research in English & Writing Studies	3
ENG 6120	Contemporary Composition and Discourse Theory	3
ENG 6150	Discourse, Cognition, and Society	3
ENG 6620	Sites of Praxis	3
Culminating Experience (3)		**3**
Concentration (12)		
Students must satisfy the requirements of one of the concentrations listed below		12
Total Units		**30**

Culminating Experience (3 units)

Students select either the Thesis Option or the Comprehensive Examination Option. Successful completion of either option satisfies the graduation writing requirement.

Thesis Option (3 units)

ENG 6973	Thesis Preparation	3
ENG 6970	Thesis Completion	0

Students electing the Thesis option must select from among two thesis project models (A or B) and are required to complete a thesis project appropriate to their concentration: applied linguistics and teaching English as a second language; composition and rhetoric; literature; pedagogy; or public and professional writing. Dual concentration students may devise a project in either of their concentrations.

A. Traditional Thesis

The first thesis model option is a traditional thesis: an independent project that demonstrates mastery of both the subject matter and the written discourse of the discipline and results in an original manuscript of approximately 60 pre-formatted pages plus bibliography.

To pursue this option, students develop an acceptable thesis project and prepare a 1000-word proposal in accordance with program guidelines.

To develop a thesis proposal for this project and obtain approval of it, students carry out the following steps:

1. Gain the support of a committee of two English Department faculty members (the thesis reading committee).
2. Submit the Thesis Proposal to the coordinator of the student's concentration(s) for approval.

The student will then be given permits to add ENG 6973 and ENG 6970 to complete the thesis.

B. Professional Paper

The second thesis model option is a professional paper that demonstrates mastery of both the subject matter and the written discourse of the discipline, and results in an original manuscript of approximately 30 pre-formatted pages plus bibliography. Depending on the student's chosen concentration and project and after consultation with faculty readers, this professional paper will take the form of one of the following:

1. Academic Journal Article
2. Scholarship of Teaching and Learning Article
3. Policy Paper
4. Public or Professional Piece

To pursue this option, students develop an acceptable thesis project from work begun in one of the M.A. program seminar classes and prepare a 1000-word thesis proposal that: a) announces the project and purpose, and explains how the work contributes to the field; b) identifies an appropriate professional venue to which this work might be submitted.

To develop a thesis proposal for this project and obtain approval of it, students carry out the following steps:

1. Gain the support of a committee of two English Department faculty members (the thesis reading committee).
2. Submit the Thesis Proposal to the coordinator of the student's concentration(s) for approval.

The student will then be given permits to add ENG 6973 and ENG 6970 to complete the thesis. After completion of the thesis the student will present his or her work at a department colloquium.

Comprehensive Examination Option (3 units)

ENG 6983	Comprehensive Exam Preparation	3
ENG 6980	Comprehensive Exam Completion	0

Students electing the Comprehensive Examination Option must take the examination no earlier than in the last semester of program coursework.

Students must declare their intent to take the examination at least one semester in advance and register for ENG 6983 and ENG 6980. The comprehensive examination is offered twice yearly, once in fall semester and once in spring semester.

The reading committees for the comprehensive examination in each concentration will be established annually by the graduate program, and will consist of two English Department faculty members and the graduate coordinator responsible for each concentration.

The comprehensive examination involves two take-home essay questions related to the student's concentration(s). The examination will be graded pass/fail, and students have the option of revising a non-passing exam based on feedback. If the revised exam still does not pass, they may re-take the exam once with new questions. Candidates who re-take the examination must do so within one calendar year.

Concentrations (12 units)

Students cannot count any courses completed for a bachelor's degree toward the MA program.

Linguistics

(Program Code: EWL)

Before enrolling in courses, students should consult the course descriptions for course prerequisites.

Choose 9 units from the following, at least 3 units of which must be 6000-level.		3
ENG 5220	Language and Speech Science	
ENG 5230	Grammar and Corpus Linguistics	
ENG 5240	Sociolinguistics	
ENG 5250	Child Language Disorders	
ENG 5260	Phonetics and Phonology	
ENG 5270	Studies in Language and Linguistics	
ENG 5310	Advanced Linguistic Analysis	
ENG 5320	Natural Language Processing for Computational Linguistics	
ENG 6050	Special Topics in Applied Linguistics & TESL	
ENG 6190	Multilingualism and Second Language Acquisition	
ENG 6260	TESL Methods	
One 3-unit course from another concentration in the M.A. program.		3
Total Units		**6**

Composition and Rhetoric Concentration (12 units)

(Program Code: EWCR)

Before enrolling in courses, students should consult the course descriptions for course prerequisites.

ENG 6330	Seminar in Rhetorics	3
or ENG 6340	Seminar in Literacy Studies	
ENG 6580	Multimodal Writing and the Public Sphere	3
Choose three units from:		3
ENG 5040	Theory & Practice of Tutoring Writing	
ENG 6600	Approaches to Teaching Writing	
ENG 6310	Seminar in Public and Professional Discourses	
ENG 6570	Seminar in Teaching Writing	
One 3-unit course from another concentration in the M.A. program.		3
Total Units		**12**

Literature Concentration (12 units)

(Program Code: EWLT)

Before enrolling in courses, students should consult the course descriptions for course prerequisites.

Choose six units from:		6
ENG 6010	Seminar in a Literary Period	
ENG 6020	Seminar in a Literary Genre	
ENG 6030	Seminar in a Literary Theory	
ENG 6510	Seminar in a Literary Topic	
Choose three units from:		3
ENG 5120	Literary and Cultural Criticism in the Public Sphere	
ENG 6590	Approaches to Teaching College-Level English Literature	
ENG 6210	Approaches to Teaching Imaginative Writing	
One 3-unit course from another concentration in the M.A. program.		3
Total Units		**12**

Pedagogy Concentration (12 units)

(Program Code: EWPD)

Before enrolling in courses, students should consult the course descriptions for course prerequisites.

Choose 12 units from the following (only 3 units may be 5000-level):		12
ENG 5040	Theory & Practice of Tutoring Writing	
ENG 5100	Teaching English in the Secondary Schools	
ENG 5110	Creative Writing in the Secondary Classroom	
ENG 5140	Community-Based Writing	
ENG 6190	Multilingualism and Second Language Acquisition	
ENG 6210	Approaches to Teaching Imaginative Writing	
ENG 6260	TESL Methods	
ENG 6570	Seminar in Teaching Writing	
ENG 6590	Approaches to Teaching College-Level English Literature	
ENG 6600	Approaches to Teaching Writing	
ENG 6660	Seminar in English and Writing Studies Pedagogies	
Total Units		**12**

Public and Professional Writing Concentration (12 units)

(Program Code: EWPP)

Before enrolling in courses, students should consult the course descriptions for course prerequisites.

ENG 6580	Multimodal Writing and the Public Sphere	3
Choose nine units from the following (only 3 units may be 5000-level):		9
ENG 5120	Literary and Cultural Criticism in the Public Sphere	
ENG 5230	Grammar and Corpus Linguistics	
ENG 5300	Creative Nonfiction	
ENG 5430A	Literary Production I	
ENG 5430B	Literary Production II	
ENG 5600	Studies in Professional Writing	
ENG 6310	Seminar in Public and Professional Discourses	
ENG 6330	Seminar in Rhetorics	
ENG 6340	Seminar in Literacy Studies	
Total Units		**12**

Master of Arts in Speech-Language Pathology

The Master of Arts in Speech-Language Pathology provides the graduate-level academic and clinical training needed to become a speech-language pathologist. Offering a rigorous curriculum that engages students in globally relevant research, the M.A. program prepares students to serve the culturally and linguistically diverse people of our region affected by communication disorders. Graduates are trained in the prevention, assessment, and treatment of communication and swallowing disorders throughout the lifespan, and prepared to work in professional settings such as hospitals, clinics, schools, and private practice, or to continue their education in a PhD program. Students in this five-semester cohort M.A. program also have the option of completing the Certificate in Healthcare Spanish (https://catalog.csusb.edu/colleges-schools-departments/arts-letters/world-languages-literatures/healthcare-spanish-certificate/).

Admission to the Program

The Graduate Committee cannot act on applications until they have been reviewed by the Office of Admissions and Student Recruitment and have met university admissions requirements. Please check the M.A. in Speech-Language Pathology website and/or the office of Graduate

Studies for the specific application due date for each year. The program admits students in Fall semester only.

In addition to the general requirements of the University, which include a baccalaureate degree from an accredited college, specific requirements for classification in the program are:

1. Typically, a cumulative undergraduate grade point average of at least 3.0 ("B"), or a cumulative GPA of 3.0 in communicative sciences and disorders coursework. However, a student's undergraduate GPA does not always predict their potential for success and should not exclude them from consideration. Therefore, the admissions committee takes a holistic approach to the admissions process, considering a broad range of candidate qualities, including a student's personal attributes, past experiences, and future goals, and how those might contribute to a good fit with our program and its values and objectives.
2. A bachelor's degree in Speech-Language Pathology, Communicative Disorders, or Speech, Language and Hearing Sciences, or a bachelor's degree in another field with a preparatory minor/certificate in Speech-Language Pathology or coursework in the following areas:
   a. Child Language and Literacy Development
   b. Introduction to Speech-Language Pathology and Audiology
   c. Language and Speech Science
   d. Child Language Disorders
   e. Phonetics and Phonology
   f. Anatomy and Physiology of the Speech and Hearing Mechanism
   g. Clinical and Research Methods and Procedures in Speech-Language Pathology
   h. Fluency, Voice, and Speech Sound Disorders
   i. Neurology and Neurogenic Communication Disorders
   j. Audiology & Audiometry
3. In addition to the above courses, ASHA requires completion of one course each in the following areas: biological sciences, physical sciences, statistics, and social/behavioral sciences. These courses must be completed prior to admission to the M.A.
4. Two letters of recommendation.
5. A one- to two-page personal statement describing the student's professional goals in the field of Speech-Language Pathology.
6. Submission of official transcripts from all previous college work to the admissions committee.
7. An interview may also be required.

Advancement to Candidacy

To be advanced to candidacy, the student must have:

1. Achieved classified status;
2. Completed at least 31 units of coursework required by the program with a grade point average of at least 3.0 ("B");
3. Filed a program plan approved by the MA SLP Coordinator.

Requirements for Graduation

1. Advancement to candidacy;
2. Successful completion of 60-semester units of acceptable graduate work with at least 48 units completed at CSUSB. All coursework taken at other institutions must be approved by the M.A. SLP Coordinator;
3. An overall GPA of at least 3.0 ("B") in all graduate-level coursework;
4. Successful completion of Culminating Experience: ENG 6543 or ENG 6550/6553.
5. The graduation writing requirement is met upon successful completion of the thesis or comprehensive examination.

Degree Requirements (60 units)

ENG 6100	Clinical Practicum I	1
ENG 6140	Language Disorders I: Infancy to Preschool	3
ENG 6160	Basic and Applied Research Methods in Speech-Language Pathology	3
ENG 6170	Neurogenic Language and Cognition Disorders I	3
ENG 6180	Articulation and Phonological Disorders	3
ENG 6200	Clinical Practicum II	2
ENG 6220	Motor Speech Disorders	3
ENG 6230	Dysphagia	3
ENG 6240	Language Disorders II: School-Age to Adolescence	3
ENG 6270	Neurogenic Language and Cognition Disorders II	3
ENG 6350	Clinical Practicum III	4
ENG 6400	Advanced Clinical Practicum I	4
ENG 6420	Voice, Resonance and Fluency	3
ENG 5560	Cultural and Linguistic Diversity in Speech-Language Pathology	3
ENG 6500	Advanced Clinical Practicum II	4
ENG 6520	Aural Rehabilitation	3
ENG 6530	Augmentative and Alternative Communication	3
Choose 6 units from:		6
ENG 6360	Counseling Tools in Speech-Language Pathology	
ENG 6370	Special Topics in Speech-Language Pathology	
ENG 6380	Directed Studies in Speech-Language Pathology	
Culminating Experience (3)		3
Total Units (60)		**60**

Culminating Experience (3 units)

Students select either the Thesis Option or the Comprehensive Examination Option. Successful completion of either option satisfies the graduation writing requirement.

Thesis Option (3 units)

ENG 6543	Speech-Language Pathology Thesis	3

Students electing the Thesis option must complete a research project under the supervision of faculty members. To develop a thesis proposal for this project and obtain approval of it, students carry out the following steps:

1. Gain the support of a committee of two Speech-Language Pathology faculty members (the thesis reading committee).
2. Write a 1000-word thesis proposal and submit it to the thesis reading committee and the M.A. SLP Coordinator for approval.

The student will then be given a permit to add ENG 6543 to complete the thesis.

Comprehensive Examination Option (3 units)

ENG 6550	Speech-Language Pathology Comprehensive Exam	0
ENG 6553	Speech-Language Pathology Comprehensive Exam Preparation	3

Students electing the Comprehensive Examination Option must take the examination no earlier than in the last semester of program coursework.

Students must declare their intent to take the examination at least one semester in advance and register for ENG 6550 and ENG 6553. The comprehensive examination preparation course is offered only in Spring semester. The exam itself is offered twice yearly, once in Fall semester and once in Spring semester.

The reading committees for the comprehensive examination in each concentration will be established annually by the graduate program and will consist of two Speech-Language Pathology faculty members.

The comprehensive examination will be graded pass/fail, and students have the option of revising a non-passing exam based on feedback. If the revised exam still does not pass, they may retake the exam once with new questions. Candidates who retake the examination must do so within one calendar year.

Bachelor of Arts in English

The Department of English at CSUSB is a vibrant community of teachers, scholars, and writers committed to the interdisciplinary exploration and development of English Studies. Our B.A. in English integrates four distinct approaches that are rarely united in English programs: literary studies, creative writing, linguistics, and rhetoric/writing studies. Students in our program gain an in-depth understanding of the imaginative, discursive, and practical aspects of language, as they read, interpret, synthesize, and write texts of various kinds. With this background, our graduates are prepared for careers in writing, business, public relations, advertising, technology, public health, teaching, and many other fields. They can also pursue graduate studies in a wide variety of disciplines, including law and medicine. Additionally, our graduates will find themselves well-prepared to take on the responsibilities of civic and community engagement.

The English major consists of a common, multidisciplinary core, and a choice of four concentrations that allow students to focus their coursework in literature, linguistics, creative writing, or rhetoric/writing studies. As a fifth option, the Department offers an individualized concentration where students, under the direction of a faculty advisor and with the approval of a faculty committee, can create their own course of study based on their personal and professional interests.

Degree Requirements (51 units)

Total units required for graduation: 120

Lower-division requirements (21)		
ENG 2000	Introduction to English Studies	3
ENG 2100	Historical Approaches to English Literature	3
ENG 2110	Introduction to Linguistics	3
ENG 2250	Historical Approaches to American Literature	3
ENG 2300	Historical Approaches to British Literature	3
ENG 2400	Writing in the Public Sphere	3
ENG 2500	Introduction to Creative Writing Studies	3
Upper-division requirements (12)		
ENG 3010	Analysis of Poetry and Drama	3
ENG 3030	Analysis of Fiction and Nonfiction Prose	3
ENG 3750	Studies in Literary Theory	3
ENG 5160	Professional Pathways for English Majors	3
Concentration (18)		
Students must satisfy the requirements of one of the concentrations listed below:		18
Total Units		**51**

Concentrations (18 units)

Students must complete 18 units from one of the following concentrations. Note: if an elective for the concentration is also a GE course, the course may count as both an elective for the concentration and for GE credit.

Creative Writing Concentration (18 units)

(Program Code: ENCW)

ENG 3500	Literary Movements: Aesthetics and Craft	3
Three units chosen from:		3
ENG 3520	Creative Writing in Specialized Genres	
ENG 4170	Poetry Writing Workshop	
ENG 4180	Fiction Writing Workshop	
ENG 5300	Creative Nonfiction	
ENG 5130	Advanced Creative Writing in Specialized Genres	3
Three units chosen from:		3
ENG 5110	Creative Writing in the Secondary Classroom	
ENG 5430A	Literary Production I	
ENG 5430B	Literary Production II	
Any upper-division creative writing course		
ENG 5190	Creative Writing: Thesis and Performance	3
Three English elective units chosen from:		3

ENG 5751	Internship in English	
ENG 5752	Internship in English	
ENG 5753	Internship in English	
ENG 5020	English Study Abroad	
ENG 5010	Media Performance Practicum	
ENG 5170	Honors Project	
ENG 5180	Research Project	
ENG 5030	English Practicum	
Any upper-division English course		
Total Units		**18**

Linguistics Concentration (18 units)

(Program Code: ELNG)

ENG 3210	Language, Thought, and Culture	3
ENG 3220	English Grammar	3
Three units chosen from:		3
ENG 3310	Child Language and Literacy Development *	
ENG 3320	Second Language Acquisition	
Six units chosen from:		6
ENG 5210	Introduction to Speech-Language Pathology and Audiology *	
ENG 5220	Language and Speech Science *	
ENG 5230	Grammar and Corpus Linguistics	
ENG 5240	Sociolinguistics	
ENG 5250	Child Language Disorders	
ENG 5260	Phonetics and Phonology	
ENG 5270	Studies in Language and Linguistics	
ENG 5310	Advanced Linguistic Analysis	
Three English elective units chosen from:		3
ENG 5751	Internship in English	
ENG 5752	Internship in English	
ENG 5753	Internship in English	
ENG 5020	English Study Abroad	
ENG 5010	Media Performance Practicum	
ENG 5170	Honors Project	
ENG 5180	Research Project	
ENG 5030	English Practicum	
Any upper-division English course		
Total Units		**18**

* To enroll in this course, students must be admitted to the Minor in Speech-Language Pathology or the Speech-Language Pathology Master's Preparatory Certificate.

Literature Concentration (18 units)

(Program Code: ENLT)

Twelve units chosen from:		12
ENG 3200	Literature for Children and Young Adults	
ENG 3140	Native American and Indigenous Literatures	
ENG 3150	Studies in a Literary Genre	
ENG 3190	Studies in Literary Diversity	
ENG 3230	Chicana/o Literature	
ENG 3240	Studies in Literary Topics	
ENG 3250	Asian American Literature	
ENG 3260	Caribbean Literature	
ENG 3280	Disability Literature	
ENG 3330	Myth and Epic	
ENG 3350	Studies in the Novel	
ENG 3360	Women Writers	
ENG 3390	African American Literature	
ENG 3410	Environmental Literature	
ENG 3700	Turning Points in Literary History	
ENG 4750	Shakespeare and Renaissance Drama	
ENG 4010	English Literature of the Middle Ages	
ENG 4030	English Literature of the Tudor/Stuart Era	
ENG 4060	Seventeenth Century Literature	
ENG 4090	English Literature of the Restoration and Eighteenth Century	
ENG 4120	Romantic Literature	
ENG 4150	Victorian Literature	
ENG 4400	Studies in a Literary Period or Movement	
ENG 4410	Studies in a Major Author or Authors	
ENG 4420	Modern Poetry	
ENG 4430	Contemporary Poetry	
ENG 4470	Modern Fiction	
ENG 4480	Contemporary Fiction	
ENG 4630	Advanced Studies in Literary Topics	
Three units from:		3
ENG 5150	Senior Seminar in Literature	
Three English elective units chosen from:		3
ENG 5751	Internship in English	
ENG 5752	Internship in English	
ENG 5753	Internship in English	
ENG 5020	English Study Abroad	
ENG 5010	Media Performance Practicum	
ENG 5170	Honors Project	
ENG 5180	Research Project	
ENG 5030	English Practicum	
Any upper-division English course		
Total Units		**18**

Rhetoric and Writing Studies Concentration (18 units)

(Program Code: ERWS)

ENG 3070	Theories of Public and Professional Writing	3
ENG 3290	Introduction to Literacy and Writing Studies	3
Six units chosen from:		6

ENG 3600	Studies in Writing	
ENG 3610	Studies in Literacy	
ENG 3620	Studies in Rhetoric	
Three units chosen from:		3
ENG 5040	Theory & Practice of Tutoring Writing	
ENG 5100	Teaching English in the Secondary Schools	
ENG 5140	Community-Based Writing	
ENG 5600	Studies in Professional Writing	
Three English elective units chosen from:		3
ENG 5751	Internship in English	
ENG 5752	Internship in English	
ENG 5753	Internship in English	
ENG 5020	English Study Abroad	
ENG 5010	Media Performance Practicum	
ENG 5170	Honors Project	
ENG 5180	Research Project	
ENG 5030	English Practicum	
Any upper-division English course		
Total Units		**18**

Self-Directed Study Concentration (18 units)

(Program Code: ESDS)

To be eligible for the Self-Directed Study Concentration, students must write a proposal for their program plan, including all of the courses that they intend to take in the concentration and a rationale for the course of study. The proposal will be vetted by an English faculty committee before a student can be approved for this concentration. Before declaring this concentration, a student must have completed the following core classes: ENG 2000, ENG 2400, ENG 2500, ENG 3110, and either ENG 3010 or ENG 3030.

Eighteen units of any upper-division English courses, selected according to a plan developed in consultation with the English Department. With prior approval of the Department, students in this concentration may substitute up to 6 units of coursework from outside of the English major. We also encourage students to take 3 of their 18 units from the following:		18
ENG 5751	Internship in English	
ENG 5752	Internship in English	
ENG 5753	Internship in English	
ENG 5020	English Study Abroad	
ENG 5010	Media Performance Practicum	
ENG 5170	Honors Project	
ENG 5180	Research Project	
ENG 5030	English Practicum	

Bachelor of Arts in Speech-Language Pathology

Pending Office of the Chancellor approval

The Bachelor of Arts in Speech-Language Pathology provides the undergraduate academic foundation needed for entry into graduate programs in communication sciences and disorders. Offering a comprehensive curriculum that integrates the study of human communication and its disorders, the B.A. program prepares students to understand the typical and atypical development of speech, language, hearing, and swallowing across the lifespan. With a focus on serving the culturally and linguistically diverse populations of our region, students gain knowledge in the prevention, assessment, and treatment of communication disorders. Graduates are well-prepared to pursue advanced study in speech-language pathology, audiology, or related fields, or to work in allied health and educational settings that support individuals with communication needs. Students in this program also have the option of completing the Certificate in Healthcare Spanish (https://catalog.csusb.edu/colleges-schools-departments/arts-letters/world-languages-literatures/healthcare-spanish-certificate/).

Students must complete a supplemental application to the Department of English for admission into the Bachelor of Arts in Speech-Language Pathology.

Admission Requirements

1. Completion of a supplemental application packet including personal statement, writing sample, contact information for two references, and transcripts. (Contact the Department of English for more information.) Please note that the program takes a holistic approach to the admissions process, considering various candidate qualities, including a student's personal attributes, past experiences, and future goals, and how those might contribute to a good fit with the program.
2. Completion of most lower division General Education and additional lower division requirements (see table below).
3. An overall grade point average (GPA) of 2.5 or higher.

Recommendations to enter the Bachelor of Arts in Speech-Language Pathology

GE Area 1: English Communication (9)		
1A: English Composition (3)		3
1B: Critical Thinking (3)		3
1C: Oral Communication (3)		3
GE Area 2: Mathematical Concepts & Quantitative Reasoning (3)		
MATH 1201	Introduction to Statistical Thinking	3
or MATH 1204	Introduction to Statistical Thinking with Support Lab	
GE Area 4: Social & Behavioral Sciences (3)		
Choose one from:		3
PSYC 1100	Introduction to Psychology	
ANTH 1002	Understanding Cultural Diversity	
GEOG 1010	Introduction to Human Geography	
GEOG 1650	World Regions and Peoples	
GSS 1000	Introduction to Women's Studies	
GSS 1010	Introduction to Masculinity Studies	
GSS 1030	Introduction to Lesbian, Gay, Bisexual, Transgender, and Queer Studies	
GE Area 5: Physical & Biological Sciences (6)		
5A: Physical Science (3)		
Choose one from:		3
CHEM 1000	Introduction to Chemistry	
CHEM 2100	General Chemistry I	

CHEM 2050	Survey of General Chemistry	
CHEM 2070	Fundamentals of General, Organic, and Biochemistry	
PHYS 1000	Physics in the Modern World	
PHYS 2000	Introduction to Physics I	
PHYS 2500	General Physics I	
5B: Biological Science (3)		
Choose one from:		3
BIOL 1000	Introduction to Biology	
BIOL 1010	Biology for Teachers	
BIOL 2010	Principles of Biology I	
BIOL 2160	Genetics and Society	
Total Units		**21**

Degree Requirements (60 units)

Total units required for graduation: 120

Lower Division Requirements (12)		
Biological Sciences		3
Choose one from:		
BIOL 1000	Introduction to Biology	
BIOL 1010	Biology for Teachers	
BIOL 2010	Principles of Biology I	
BIOL 2160	Genetics and Society	
BIOL 2230	Human Anatomy and Physiology I for Allied Health Majors	
Physical Sciences		3
Choose one from:		
CHEM 1000	Introduction to Chemistry	
CHEM 2050	Survey of General Chemistry	
CHEM 2070	Fundamentals of General, Organic, and Biochemistry	
CHEM 2100	General Chemistry I	
PHYS 1000	Physics in the Modern World	
PHYS 2000	Introduction to Physics I	
PHYS 2500	General Physics I	
Statistics		3
Choose one from:		
MATH 1201	Introduction to Statistical Thinking	
MATH 1204	Introduction to Statistical Thinking with Support Lab	
PSYC 2210	Psychological Statistics	
Social/Behavioral Sciences		3
Choose one from:		
PSYC 1100	Introduction to Psychology	
ANTH 1002	Understanding Cultural Diversity	
GEOG 1010	Introduction to Human Geography	
GEOG 1650	World Regions and Peoples	
GSS 1000	Introduction to Women's Studies	
GSS 1010	Introduction to Masculinity Studies	
GSS 1030	Introduction to Lesbian, Gay, Bisexual, Transgender, and Queer Studies	
Upper-Division Requirements (36)		
ENG 3310	Child Language and Literacy Development	3
ENG 5210	Introduction to Speech-Language Pathology and Audiology	3
ENG 5220	Language and Speech Science	3
ENG 5250	Child Language Disorders	3
ENG 5260	Phonetics and Phonology	3
ENG 5290	Anatomy and Physiology of the Speech and Hearing Mechanism	3
ENG 5520	Methods and Procedures in Speech-Language Pathology	3
ENG 5530	Fluency and Speech Sound Disorders	3
ENG 5540	Neurology and Neurogenic Communication Disorders	3
ENG 5550	Introduction to Voice Disorders	3
ENG 5560	Cultural and Linguistic Diversity in Speech-Language Pathology	3
ENG 5570	Audiology & Audiometry	3
Electives (12)		**12**
Choose 4 from:		
ENG 3110	Introduction to Linguistics	
ENG 3280	Disability Literature	
ENG 3320	Second Language Acquisition	
or ENG 6190	Multilingualism and Second Language Acquisition	
ENG 5700	Speech-Language Pathology Assistant Practicum	
ENG 5953	Independent Study in English	
PHIL 3026	Philosophy of Disability	
HIST 3791	Disability History	
ASL 1111	American Sign Language I	
COMM 2451	Communicating Disability Studies	
COUN 3101	Introduction to the Counseling & Helping Professions	
COUN 3102	The Social Construction Of Relationships	
COUN 3103	Introduction To Counseling Skills & Practices	
COUN 3104	Counseling & Social Change	
CAFS 2205	Diversity in Child Development	
CAFS 2240	Introduction to Child Development	
CAFS 3350	Development of Exceptional Children	
CAFS 3358	Cognitive Development	
CAFS 3384	Social and Emotional Development	
Total Units		**60**

Bachelor of Science in Computational Linguistics & Artificial Intelligence

Pending Office of the Chancellor approval

The BS in Computational Linguistics and Artificial Intelligence prepares students to apply big data analytics and computational tools to process natural language in various contexts, including artificial intelligence

applications that are based on large language models (LLMs). Because the program is interdisciplinary–lying at the intersection of linguistics, computer science, and data science–it equips students with complex, overlapping knowledge required of a range of fields, including technology, finance, government, education, and others. The BS program achieves this by training students in natural language processing, computational linguistics, programming, data processing, and linguistic analysis.

Degree Requirements (61 units)

Total units required for graduation: 120

Lower Division (28)		
ENG 2110	Introduction to Linguistics	3
CSE 1250	Programming Basics	4
CSE 2010	Computer Science I	4
CSE 2020	Computer Science II	4
MATH 2372	Discrete Mathematics	3
MATH 2265	Statistics with Applications	3
MATH 2210	Calculus I *	4
IST 2510	Big Data Analytics	3
Upper Division (24)		
ENG 3220	English Grammar	3
ENG 5310	Advanced Linguistic Analysis	3
ENG 3530	Introduction to Computational Linguistics	3
ENG 5320	Natural Language Processing for Computational Linguistics	3
ENG 5230	Grammar and Corpus Linguistics	3
CSE 5160	Machine Learning	3
CSE 5120	Introduction to Artificial Intelligence	3
PHIL 3022	AI Ethics	3
Electives (9)		
Choose 9 units from the following:		9
ENG 3210	Language, Thought, and Culture	
ENG 3310	Child Language and Literacy Development	
ENG 3320	Second Language Acquisition	
ENG 5220	Language and Speech Science	
ENG 5240	Sociolinguistics	
ENG 5260	Phonetics and Phonology	
ENG 5270	Studies in Language and Linguistics	
ENG 5754	Internship in Computational Linguistics or AI	
ENG 5280	Special Topics in AI and Humanities	
IST 4510	Advanced Data Analytics (requires prerequisites)	
IST 4520	Data Mining (requires prerequisites)	
DES 4130	Senior Design Topics	
SPAN 3305	Applied Spanish Grammar	
PHIL 3120	Computation and Logic	
COMM 5377	AI in Journalism and Media	
COMM 3305	Digital Media and Society	
CSE 1400	Data Science and AI Ethics	
Total Units		**61**

* Requires placement test or MATH 1401 or MATH 1403.

Minor in Border Studies

Border Studies is a trans-disciplinary study of the material and symbolic processes of border making, erasing, and transcending. Our approach is the policy-practice-perception study of borders as culturally, historically, and spatially produced material and symbolic landscapes. Studying borders teaches us that societies are complex, contested, and power-laden hybrid spaces and processes that deepen our understanding of how people relate to each other across borders and barriers: political, social and cultural. Special focus will be given to the Mexican and American border area and its impact across our continent and our academic fields study.

Requirements for a minor in Border Studies (18 units)

Complete at least 18 units from three different programs. A minimum of 6 units must be upper-division. Select courses from the following list: (18)		**18**
ANTH 1002	Understanding Cultural Diversity	
ANTH 3603	Gendered Worlds: Power, Difference, and & In/equality	
ANTH 3606	Indigenous Politics	
ANTH 3701R	Cultures of Mexico and Central America	
ART 2329	Xicanx Art	
ART 2400	Introduction to Chicanx Art	
ART 3760	Border Art	
AH 3210	Visualizing Gender, Performing Identity	
AH 3250	Topics and Themes of Art History and Exhibitions	
AH 4250	Art History Seminar	
CAL 3350	Latinx Border Identity: A Transmedia Perspective	
COMM 3319	Topics in Media Studies	
COMM 3339	Topics in Film Studies	
COMM 4302	Latinx, Media, and Cultures	
ENG 3000	Studies in Global Literatures	
ENG 3140	Native American and Indigenous Literatures	
ENG 3230	Chicana/o Literature	
ENG 3260	Caribbean Literature	
ENG 3500	Literary Movements: Aesthetics and Craft	
ENG 5020	English Study Abroad	
ES 1000	Introduction to Ethnic Studies	
ES 1020	Introduction to Chicana/o/x and Latina/o/x Studies	
GEOG 3060	Political Geography	
GEOG 4055	US-Mexico Border Region	
GEOG 4060	Emerging World Regions	
GEOG 4070	Advanced World Regions	
GEOG 4450	Globalization and Identity	

GEOG 5150	Global Governance and the United Nations System	
HIST 3420	American Indian History	
HIST 3710	California Indian History	
HIST 5680	History of the U.S. - Mexico Borderlands	
PA 5900	Special Topics in Public Administration	
SOC 4420	The Latino Experience in the U.S.	
SOC 4510	Sociology of Migration	
SOC 5250	Indian Nations and Native America	
SOC 5510	Borders, Knowledges, and Identities	
SOC 5450	Indigenous Peoples	
HSCI 4210	Cultural Competency	
HSCI 4212	Topics about Special Populations	
SPAN 2900	Spanish Literature and Film in English	
SPAN 3900	Voices & Visions from the Hispanic World	
Total Units		**18**

Minor in Creative Writing

Designed for non-English majors, the 21 unit Minor in Creative Writing supports development of students' creative writing processes. In three required course categories (foundations, workshop, and seminar) students draft, appreciate, and critique their original work and that of published authors, working independently and collaboratively. In three elective courses, students choose from a variety of creative writing practices, applications, and vocations, to gain hands-on experience teaching, editing, publishing, and/or performing. Some examples of such experience include working with K-12 students, editing a campus literary magazine, working with the campus radio station, performing at open mics on and off campus, and using creative writing approaches, pedagogies, and processes toward other forms of community outreach. Students will gain expertise relevant to a wide range of careers such as those in other arts, communications, science, business, government, and health and human services.

Requirements for a minor in Creative Writing (21 units)

ENG 2500	Introduction to Creative Writing Studies	3
ENG 3500	Literary Movements: Aesthetics and Craft	3
ENG 5130	Advanced Creative Writing in Specialized Genres	3
One Workshop Chosen From:		3
ENG 4170	Poetry Writing Workshop	
ENG 4180	Fiction Writing Workshop	
ENG 5300	Creative Nonfiction	
One Creative Writing Elective Chosen From:		3
ENG 3470	Writing for Performance	
ENG 4170	Poetry Writing Workshop	
ENG 4180	Fiction Writing Workshop	
ENG 5010	Media Performance Practicum	
ENG 5100	Teaching English in the Secondary Schools	
ENG 5110B	Creative Writing in the Secondary Classroom B	
ENG 5130	Advanced Creative Writing in Specialized Genres	
ENG 5430A	Literary Production I	
ENG 5430B	Literary Production II	
Two English Electives Chosen from any Upper-Division English Courses		6
Please note: ENG 3500 can only be taken once for credit; ENG 4170 and ENG 4180 can each be taken for up to 6 units of credit; and ENG 5130 may be taken again for credit as topics change.		
Total Units		**21**

Minor in English

The English Minor allows students to select courses related to their personal interests and professional goals. With offerings in creative writing, linguistics, literature, and rhetoric and writing studies, the English Minor pairs well with any major—whether in science, social science, business, or humanities. It prepares students for any career requiring them to write effectively, think creatively, or understand human nature.

Minor Requirements (18 units)

Eighteen units chosen from courses in the following areas. Students are free to select and mix courses across any of these areas.		18
Creative Writing and Literary Production		
ENG 2500	Introduction to Creative Writing Studies	
ENG 3500	Literary Movements: Aesthetics and Craft	
ENG 3520	Creative Writing in Specialized Genres	
ENG 4170	Poetry Writing Workshop	
ENG 4180	Fiction Writing Workshop	
ENG 5300	Creative Nonfiction	
ENG 5130	Advanced Creative Writing in Specialized Genres	
ENG 5110	Creative Writing in the Secondary Classroom (may repeat twice for credit)	
ENG 5430A	Literary Production I	
ENG 5430B	Literary Production II	
ENG 5190	Creative Writing: Thesis and Performance	
Rhetoric, Literacy, and Writing Studies		
ENG 2400	Writing in the Public Sphere	
ENG 3070	Theories of Public and Professional Writing	
ENG 3290	Introduction to Literacy and Writing Studies	
ENG 3600	Studies in Writing	
ENG 3610	Studies in Literacy	
ENG 3620	Studies in Rhetoric	
ENG 5040	Theory & Practice of Tutoring Writing	
ENG 5100	Teaching English in the Secondary Schools	

ENG 5140	Community-Based Writing
ENG 5600	Studies in Professional Writing
Linguistics and Discourse	
ENG 3110	Introduction to Linguistics
ENG 3210	Language, Thought, and Culture
ENG 3220	English Grammar
ENG 3310	Child Language and Literacy Development
ENG 3320	Second Language Acquisition
ENG 3510	History of the English Language
ENG 5230	Grammar and Corpus Linguistics
ENG 5240	Sociolinguistics
ENG 5260	Phonetics and Phonology
ENG 5270	Studies in Language and Linguistics
Literature and Culture	
ENG 2100	Historical Approaches to English Literature
ENG 2300	Historical Approaches to British Literature
ENG 2250	Historical Approaches to American Literature
ENG 3010	Analysis of Poetry and Drama
ENG 3030	Analysis of Fiction and Nonfiction Prose
ENG 3750	Studies in Literary Theory
ENG 3000	Studies in Global Literatures
ENG 3200	Literature for Children and Young Adults
ENG 3140	Native American and Indigenous Literatures
ENG 3150	Studies in a Literary Genre
ENG 3190	Studies in Literary Diversity
ENG 3230	Chicana/o Literature
ENG 3240	Studies in Literary Topics
ENG 3250	Asian American Literature
ENG 3260	Caribbean Literature
ENG 3280	Disability Literature
ENG 3330	Myth and Epic
ENG 3350	Studies in the Novel
ENG 3360	Women Writers
ENG 3390	African American Literature
ENG 3410	Environmental Literature
ENG 3700	Turning Points in Literary History
ENG 4750	Shakespeare and Renaissance Drama
ENG 4120	Romantic Literature
ENG 4150	Victorian Literature
ENG 4420	Modern Poetry
ENG 4410	Studies in a Major Author or Authors
ENG 4430	Contemporary Poetry
ENG 4400	Studies in a Literary Period or Movement
ENG 4470	Modern Fiction
ENG 4480	Contemporary Fiction
ENG 4630	Advanced Studies in Literary Topics
ENG 5150	Senior Seminar in Literature
Total Units	**18**

Minor in English Teacher Preparation

The courses in the English Teacher Preparation Minor provide subject-matter training (supplementing the English BA) for students who are planning to obtain a single-subject teaching credential in English. Coursework has been certified by the California Commission on Teacher Credentialing (CTCC) as part of the English Department's subject matter waiver program.

Minor Requirements (24 units)

Students must take the following eight courses to complete the ETP Minor. (NOTE: Students may apply any of the ENG courses listed here toward the elective units in their concentration in the English Major. ENG 3000 and TA 2660 also satisfy General Education Requirements)

ENG 3000	Studies in Global Literatures	3
ENG 3200	Literature for Children and Young Adults	3
ENG 3220	English Grammar	3
ENG 3290	Introduction to Literacy and Writing Studies	3
ENG 3320	Second Language Acquisition	3
ENG 4750	Shakespeare and Renaissance Drama	3
ENG 5100	Teaching English in the Secondary Schools	3
or ENG 5110	Creative Writing in the Secondary Classroom	
TA 2660	Introduction to Theatre	3
Total Units		**24**

Minor in Linguistics

The Linguistics Minor provides students with a strong introduction to various aspects of language, including speech sounds, grammar, discourse, language acquisition, and language use and its relationship to context, culture, and thought. This minor builds expertise relevant to careers in speech therapy, health communication, conflict management, business and marketing, voice recognition, search engine optimization, artificial intelligence, cyber security, education, social services, and other areas. As such, it may be of particular interest to students majoring in a foreign language, computer science, psychology, anthropology, communication studies, philosophy, social work, nursing, or health science. It is open, however, to students in any major. The program includes one required course and five elective linguistics classes.

Requirements for a minor in Linguistics (18 units)

Required Course (3)		
ENG 3110	Introduction to Linguistics	3
Electives (15)		
Fifteen units chosen from:		15
ENG 3210	Language, Thought, and Culture	
ENG 3220	English Grammar	
ENG 3310	Child Language and Literacy Development	
ENG 3320	Second Language Acquisition	
ENG 5210	Introduction to Speech-Language Pathology and Audiology	
ENG 5220	Language and Speech Science	
ENG 5230	Grammar and Discourse	
ENG 5240	Sociolinguistics	
ENG 5250	Child Language Disorders	
ENG 5260	Phonetics and Phonology	
ENG 5270	Studies in Language and Linguistics	
Total Units		**18**

Minor in Multimedia Storytelling

Multimedia storytelling involves the combination of text, still photography, video, audio, graphics, and interactivity presented online or in another format in a nonlinear manner. The key to multimedia storytelling is using the media form to present a story in a compelling and informative way. Students pursuing this minor will learn the various aspect of this media form including storyboarding, fieldwork, editing and assembling the story. In short, students will discover the importance of merging new multimedia technology and revising culturally rich and fundamental concepts of storytelling. While telling their stories, students can also explore the issues surrounding social media, community activism, and social justice and change.

Requirements for a minor in Multimedia Storytelling (18 units)

Complete at least 18 units from three different programs in the College of Arts and Letters. A minimum of 6 units must be upper-division. Select from the following list of courses: (18)		**18**
ART 1140	Creative Technology for Artists	
ART 2240	Beginning Imaging and Illustration	
ART 2260	Beginning Photography	
ART 3710	Video Art	
COMM 2301	Newswriting and Reporting	
COMM 2351	Television Studio Production	
COMM 2391	Practicum in Multimedia Journalism: Coyote Chronicle	
COMM 2392	Practicum in Digital Audio and Radio	
COMM 2491	Practicum in Strategic Communication: Coyote PR	
COMM 3102	Media, Culture, and Society	
COMM 3305	Digital Media and Society	
COMM 3332	Movies in the Digital Age	
COMM 3335	Visual Communication	
COMM 3351	Introduction to Digital Video Editing	
COMM 3371	Multimedia Journalism	
COMM 3379	Topics in Multimedia Journalism	
DES 1100	Digital Applications Basics	
DES 1110	Fundamental Design Principles	
DES 1125	Design Thinking - Problem Solving & Critical Thinking in Visual Studies	
DES 3500	Business of Creativity	
ENG 2400	Writing in the Public Sphere	
ENG 3240	Studies in Literary Topics	

ENG 3470	Writing for Performance	
ENG 3500	Literary Movements: Aesthetics and Craft	
ENG 4630	Advanced Studies in Literary Topics	
ENG 5010	Media Performance Practicum	
ENG 5130	Advanced Creative Writing in Specialized Genres	
MUS 2266	Creating digital Media Using Personal Electronic Technology	
TA 3210	Voice and Movement	
TA 3602	Dramatic Analysis and Playwriting for Teachers	
TA 3647	Playwriting	
TA 4241	Styles of Acting	
Note: Students are able to receive credit for summer arts courses pertaining to the minor.		
Total Units		**18**

Minor in Speech-Language Pathology

The Minor in Speech-Language Pathology provides an introduction to the fast-growing field of communication disorders. Students in the minor can complete the required coursework needed to apply to most master's programs in Speech-Language Pathology and Communication Sciences & Disorders. The courses in the minor are taught by faculty from several departments with expertise in communication sciences and disorders and related fields.

Admission to the Minor

The minimum requirements for admission to the minor are as follows:

Evidence of success potential in the program, including transcript showing strong academic performance in undergraduate coursework; personal statement; writing sample; contact information for two references. Please note that the program takes a holistic approach to the admissions process, considering various candidate qualities, including a student's personal attributes, past experiences, and future goals, and how those might contribute to a good fit with the program. Admission to the minor is also contingent on spaces available in the program.

For more information about applying to the minor and application deadlines, please see the program website.

Please note that if you are planning to apply for a master's degree program in speech-language pathology or communication sciences and disorders, you must also have completed General Education (GE) coursework in several areas. Please see the program website for more information.

Minor Requirements (36 units)

ENG 3310	Child Language and Literacy Development	3
ENG 5210	Introduction to Speech-Language Pathology and Audiology	3
ENG 5220	Language and Speech Science	3
ENG 5250	Child Language Disorders	3
ENG 5260	Phonetics and Phonology	3
ENG 5290	Anatomy and Physiology of the Speech and Hearing Mechanism	3
ENG 5520	Methods and Procedures in Speech-Language Pathology	3
ENG 5530	Fluency and Speech Sound Disorders	3
ENG 5540	Neurology and Neurogenic Communication Disorders	3
ENG 5550	Introduction to Voice Disorders	3
ENG 5560	Cultural and Linguistic Diversity in Speech-Language Pathology	3
ENG 5570	Audiology & Audiometry	3
Total Units		**36**

Certificate in Creative Writing

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Designed for non-English majors, the 18-unit Certificate in Creative Writing supports development of students' creative writing processes. In three required courses (foundations, workshop, and seminar) students draft, appreciate, and critique their original work and that of exemplary authors, working independently and collaboratively. In three elective courses, students choose from a variety of creative writing practices, applications, and vocations, to gain hands-on experience teaching, editing, publishing, and/or performing. Some examples of such experience include working with local K-12 students, editing a campus literary magazine, working with the campus radio station, performing at open mics on and off campus, and using creative writing approaches, pedagogies, and processes toward other forms of community outreach. Students will gain expertise relevant to a wide range of careers such as those in other arts, communications, science, business, government, and health and human services.

Certificate Requirements (18 Units)

ENG 3500	Literary Movements: Aesthetics and Craft	3
One workshop chosen from:		3
ENG 4170	Poetry Writing Workshop	
ENG 4180	Fiction Writing Workshop	
ENG 5300	Creative Nonfiction	
ENG 5130	Advanced Creative Writing in Specialized Genres	3
One Creative Writing elective chosen from:		3

ENG 3470	Writing for Performance
ENG 4170	Poetry Writing Workshop
ENG 4180	Fiction Writing Workshop
ENG 5010	Media Performance Practicum
ENG 5110	Creative Writing in the Secondary Classroom
ENG 5110B	Creative Writing in the Secondary Classroom B
ENG 5130	Advanced Creative Writing in Specialized Genres
ENG 5300	Creative Nonfiction
ENG 5430A	Literary Production I
ENG 5430B	Literary Production II
Two English electives chosen from any upper-division English courses.	6
Please note: ENG 5300 can only be taken once for credit; ENG 4170 and ENG 4180 can each be taken for up to 6 units of credit; and ENG 5130 may be taken again for credit as topics change.	
Total Units	**18**

Certificate in Speech-Language Pathology Master's Preparatory

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

The Speech-Language Pathology Master's Preparatory Certificate provides students with the prerequisite coursework needed to apply to most master's programs in Speech-Language Pathology and Communication Sciences & Disorders. The certificate is designed for college graduates who majored in other areas but are now interested in the fast-growing field of speech-language pathology. The courses in the certificate are taught by faculty from several departments with expertise in communication sciences and disorders and related fields.

Admission to the Certificate

The minimum requirements for admission to the certificate are as follows:

Evidence of success potential in the program, including transcript showing strong academic performance in undergraduate coursework; personal statement; writing sample; contact information for two references; and typically a minimum undergraduate GPA of 3.0 . Please note that the program takes a holistic approach to the admissions process, considering various candidate qualities, including a student's personal attributes, past experiences, and future goals, and how those might contribute to a good fit with the program. Admission to the certificate is also contingent on spaces available in the program.

For more information about applying to the certificate and application deadlines, please see the program website.

Please note that if you are planning to apply for a master's degree program in speech-language pathology or communication sciences and disorders, you must also have completed General Education (GE) coursework in several areas. Please see the program website for more information.

Certificate Requirements (36 units)

ENG 3310	Child Language and Literacy Development	3
ENG 5210	Introduction to Speech-Language Pathology and Audiology	3
ENG 5220	Language and Speech Science	3
ENG 5250	Child Language Disorders	3
ENG 5260	Phonetics and Phonology	3
ENG 5290	Anatomy and Physiology of the Speech and Hearing Mechanism	3
ENG 5520	Methods and Procedures in Speech-Language Pathology	3
ENG 5530	Fluency and Speech Sound Disorders	3
ENG 5540	Neurology and Neurogenic Communication Disorders	3
ENG 5550	Introduction to Voice Disorders	3
ENG 5560	Cultural and Linguistic Diversity in Speech-Language Pathology	3
ENG 5570	Audiology & Audiometry	3
Total Units		**36**

Certificate in Teaching English as a Second Language

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

The Certificate in Teaching English as a Second Language allows students to gain expertise in this area of teaching and is often a necessary qualification for teaching English as a foreign language

overseas and for teaching English as a second language in intensive language programs in the United States.

Students must earn a minimum GPA of 3.0 in their TESL Certificate coursework in order to be granted the certificate. Students must finish their TESL Certificate coursework within seven years.

Certificate Requirements (18 units)

ENG 3110	Introduction to Linguistics	3
ENG 3220	English Grammar	3
ENG 6260	TESL Methods	3
Three units chosen from:		3
ENG 3320	Second Language Acquisition	
ENG 6190	Multilingualism and Second Language Acquisition	
Six units chosen from:		6
ENG 5230	Grammar and Discourse	
ENG 5240	Sociolinguistics	
ENG 5260	Phonetics and Phonology	
ENG 5270	Studies in Language and Linguistics	
ENG 6050	Special Topics in Applied Linguistics & TESL	
ENG 6150	Discourse, Cognition, and Society	
Total Units		**18**

Certificate in Teaching Writing

The coursework for the Certificate in Teaching Writing prepares students for teaching positions in U.S. community colleges, writing centers, and literacy programs. The Certificate also serves secondary school teachers who wish to become more effective in teaching writing, as well as students who are interested in pursuing further graduate study in Composition Studies.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Admission to the Certificate

Contact the English Department graduate coordinator for information about the certificate program.

1. Postbaccalaureate standing;
2. A minimum grade point average of 3.0 in undergraduate upper-division coursework.

Recommendation for the Certificate

1. Completion of the certificate coursework with a minimum grade point average of 3.0;
2. Completion of the certificate within a seven-year period. Students who have taken any required course that expires because it exceeds the seven-year limitation will be required to retake the course or its equivalent, as designated by the English Department graduate coordinator. Petitions to waive this requirement will not be approved.

Certificate Requirements (18 units)

ENG 6120	Contemporary Composition and Discourse Theory	3
ENG 6600	Approaches to Teaching Writing	3
Twelve units chosen from (at least 6 units must be 6000-level):		12
ENG 2400	Writing in the Public Sphere	
ENG 3290	Introduction to Literacy and Writing Studies	
ENG 5040	Theory & Practice of Tutoring Writing	
ENG 6260	TESL Methods	
ENG 6570	Seminar in Teaching Writing	
ENG 6580	Multimodal Writing and the Public Sphere	
Total Units		**18**

Certificate in Writing: Public and Professional Writing

The Certificate in Writing: Public and Professional Writing prepares students for professional, workplace, and public writing and editing in print and online contexts. Core certificate classes offer theoretical and rhetorical foundations for learning and engaging with central concepts and practices in public and professional writing. Elective classes in the certificate allow students to select writing classes that complement their academic majors and align with their professional goals. Students who plan to pursue writing-oriented or writing-intensive careers will benefit from both the core and elective classes, which are designed to prepare students for a variety of writerly possibilities, from professional writers to professionals who write, and prepare students to write confidently and successfully in a wide range of professions, genres, and contexts.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (18 units)

ENG 2400	Writing in the Public Sphere	3
ENG 3070	Theories of Public and Professional Writing	3
ENG 3600	Studies in Writing	3
Choose nine units from the following: (9)		**9**
ART 4530	Art Writing	
AH 3250	Topics and Themes of Art History and Exhibitions	
AH 4250	Art History Seminar	
AH 5250	Art History Capstone Research Seminar	
AH 5270	Art History Capstone Research Methodology	
COMM 2301	Newswriting and Reporting	
COMM 3354	Fundamentals of Screenwriting	
COMM 3211	Business and Professional Communication	
COMM 3371	Multimedia Journalism	
COMM 3372	Publication Design	
COMM 3402	Writing for Public Relations	
COMM 4101	Communication Research Methodology	
ENG 3600	Studies in Writing	
ENG 3991	Community Service Project	
ENG 3992	Community Service Project	
ENG 3993	Community Service Project	
ENG 5010	Media Performance Practicum	
ENG 5300	Creative Nonfiction	
ENG 5600	Studies in Professional Writing	
ENG 5751	Internship in English	
ENG 5752	Internship in English	
ENG 5753	Internship in English	
ENG 6310	Seminar in Public and Professional Discourses	
PHIL 3580	Philosophy of Language	
TA 3647	Playwriting	
TA 4163	Criticism of Plays in Performance	
Total Units		**18**

Department of Music

Accredited by the National Association of Schools of Music (NASM)

Performing Arts Building, Room 111
(909) 537-5859 Department of Music website (http://music.csusb.edu/)

The CSUSB Department of Music provides students with a rigorous musical education as a foundation for a lifelong understanding and love of music, as well as preparation for a wide variety of careers in music. We accomplish this through an emphasis on undergraduate education, small class size, and close interactions between faculty and students, all with a continual focus on artistic expression. Consistent with the university's mission, the department is also committed to serving the campus and Inland Empire communities through on-going performance and educational initiatives.

CSUSB's Bachelor of Arts in Music provides a broad study of music balanced with significant general studies in the humanities, natural sciences, and social sciences. The core of required music courses provides a foundation in music theory, history, and performance, while General Education courses balance musical study with significant exposure to many other disciplines. Additionally, the degree's free electives allow students to pursue study in areas of particular interest, including, with the permission of a music advisor, the substitution of courses from disciplines outside of music. Students are encouraged to consider completion of a minor as part of their elective study.

CSUSB's Bachelor of Music program prepares students for careers as professional performers of classical art music or in music teaching. Students must meet rigorous academic and artistic standards to enter and continue in the program, and after graduation the majority of students in performance concentrations pursue advanced music degrees or similar post-baccalaureate training. Students in the education pre-certification concentration pursue post-baccalaureate credentials to teach music. The performance concentrations put particular focus on real world performing as a supplementary learning experience, with emphasis on auditions for professional engagements and competitions, service learning, and formation of ad hoc ensembles. The education pre-certification concentration puts similar focus on pre-professional activities, including substantive observations in school music settings, as well as pursuit of meaningful paid or volunteer teaching in such settings.

The Bachelor of Music program does have entrance requirements. For specific requirements, see the degree information below or the department's handbook, available online at Department of Music website. (https://music.csusb.edu/)

Students wishing to be recommended for the single subject teaching credential in music must complete the Bachelor of Music Education Pre-Certification Concentration, and certain other prerequisites to the teacher education program. For information about the professional education component of the credential program, admission to the teacher education program, and specific requirements for the single subject waiver program contact the Credentials Office, CE-102.

Departmental Honors

To be awarded honors in Music, music majors must meet all of the following criteria:

1. Achieve a university grade point average of 3.6 or higher;
2. Achieve a Music Department grade point average of 3.8 or higher;
3. Demonstrate superior ability in musical performance, composition or scholarship as determined by judgment of Music Department faculty. This may be based on a project, performance, competition, teaching or other activity on or off campus.

Current Faculty

Catherine Stacey Fraser, Professor of Music
B.M. 1994, University of Toronto
M.M. 1996, Manhattan School of Music
D.M.A. 2003, University of California, San Diego

Martim Galvão, Assistant Professor of Music
B.B.A. 2010, Emory University
M.F.A. 2014, University of California
M.A. 2017, Brown University
Ph.D. 2022, Brown University

Jessica Getman, Associate Professor of Music
B.A. 2002, California Polytechnical State University San Luis Obispo
M.M. 2008, Boston University
Ph.D. 2015, University of Michigan

Todd Johnson, Professor of Music
B.M./B.S. 1988, Central Michigan University
M.M. 1989, Northwestern University
D.M.A. 1999, University of Oklahoma

Robert J. Knop, Professor of Music
B.M. 1971, Roosevelt University
M.M. 1998, Northern Illinois University
D.A. 2002, University of Northern Colorado

Lesley Leighton, Professor of Music
B.A. 1984, Loyola Marymount University
M.M. 1991, University of Southern California
D.M.A. 2012, University of Southern California

Lucy Lewis, Professor of Music
B.M./B.S. 2008, Andrews University
M.M. 2011, University of Cincinnati
D.M.A. 2014, University of Iowa

Mark Miller, Assistant Professor of Music
B.A. 2007, California Polytechnical State University San Luis Obispo
M.M. 2010, University of Southern California
D.M.A. 2013, University of Southern California

Kevin Zhang, Associate Professor of Music
B.M. 2010, New England Conservatory of Music
M.F.A. 2012, University of California, Irvine
Ph.D. 2018, University of California, San Diego

Emeriti

Edward J. Bostley

Loren Filbeck

Larry E. McFatter

Jerrold Pritchard

Undergraduate Degrees

Bachelor of Arts

- Music (p. 198)
- Music Therapy (p. 200) (beginning Fall 2025)

Bachelor of Music (p. 201)

with concentrations in:

- Conducting Performance
- Pre-Certification (Music Education)
- Vocal Performance
- Instrumental Performance
- Piano Performance
- Guitar Performance

Minors

Alternative Styles of Music (p. 204)

Music (p. 205)

Music Technology (p. 205)

Bachelor of Arts in Music

Any student accepted for admission to CSUSB can declare music as major and pursue the BA in Music degree. Students may pursue any of three concentrations offered within the BA in Music degree: General Music Studies (GMS), Music Industry Studies (MIS), or Music, Sound, & Technology (MST).

All new music majors should schedule an audition with department faculty in order to determine placement in applied music lessons and performance ensembles. Incoming students are also encouraged to take a keyboard skills proficiency diagnostic examination and a music theory diagnostic examination.

Applied instruction is available only to declared music majors. Students interested in applied composition (MUS 2460 (http://bulletin.csusb.edu/search/?P=MUS%202460)) will be required to complete one year of applied vocal or instrumental music instruction (MUS 1400 (http://bulletin.csusb.edu/search/?P=MUS%201400)-MUS 1450 (http://bulletin.csusb.edu/search/?P=MUS%201450)) as a prerequisite. Students in applied music technology (MUS 3480 (http://bulletin.csusb.edu/search/?P=MUS%203480)) or applied commercial music (MUS 3490 (http://bulletin.csusb.edu/search/?P=MUS%203480)) will be required to complete two years of applied vocal or instrumental music instruction (MUS 1400 (http://bulletin.csusb.edu/search/?P=MUS%201400)-MUS 1450 (http://bulletin.csusb.edu/search/?P=MUS%201450) and MUS 2400 (http://bulletin.csusb.edu/search/?P=MUS%202400)-MUS 2450 (http://bulletin.csusb.edu/search/?P=MUS%202450)) as a prerequisite. Students may enroll in a maximum of four units at any one collegiate level of applied instruction (MUS 1400 (http://bulletin.csusb.edu/search/?P=MUS%201400)-MUS 1450 (http://bulletin.csusb.edu/search/?P=MUS%201450), MUS 2400 (http://bulletin.csusb.edu/search/?P=MUS%202400)-MUS 2460 (http://bulletin.csusb.edu/search/?P=MUS%202460), MUS 3400 (http://bulletin.csusb.edu/search/?P=MUS%203400)-MUS 3490 (http://bulletin.csusb.edu/search/?P=MUS%203490), or MUS 4400 (http://bulletin.csusb.edu/search/?P=MUS%204400)-MUS 4480 (http://

bulletin.csusb.edu/search/?P=MUS%204480)). After four semesters at one level, students unable to satisfy completion requirements for that level will be counseled to select a major in a different discipline and will be denied enrollment in any higher level of applied instruction.

All students enrolled as full-time music majors in the General Music Studies concentration are required to participate each semester until graduation (8 total) in a major performing ensemble (MUS 3800 (https://catalog.csusb.edu/search/?P=MUS%203800), 3810 (https://catalog.csusb.edu/search/?P=MUS%203810), 3850 (https://catalog.csusb.edu/search/?P=MUS%203850), or 3860 (https://catalog.csusb.edu/search/?P=MUS%203860)) most appropriate to a student's applied emphasis. Students enrolled in the Music Industry Studies and the Music, Sound, & Technology concentrations are required to participate for at least 4 semesters in a major performing ensemble.

Degree Requirements (55-57 units)

Total units required for graduation: 120

MUS 2120	Music Theory I: Diatonic Harmony	3
MUS 2125	Musicianship I	2
MUS 2130	Music Theory II: Chromatic Harmony	3
MUS 2135	Musicianship II	2
MUS 3500	Global Music *	3
MUS 2660	Electronic Music Production	3
Four units chosen from the student's instrument of study:		4
MUS 1400-MUS 1450 (1000-level Applied Study)		
MUS 2400-MUS 2460 (2000-level Applied Study)		
Four units chosen from:		4
Participation in one of the major performance organizations most appropriate to the student's applied emphasis.		
MUS 2000	Large Music Ensemble	
MUS 3800	Symphony Orchestra	
MUS 3810	Symphonic Band	
MUS 3850	Concert Choir	
MUS 3860	Chamber Singers	
MUS 1000	Music Forum +	4
MUS 5980	Senior Project	1
Concentration chosen below		26-28
Total Units		**55-57**

* Double counts for GE category UD-3.
\+ Must take at least 4 times.

Concentrations (26-28 Units)

General Music Studies Concentration

(Program Code: MUGM)

MUS 2140	Music Theory III: Analysis of Musical Form	3
MUS 2145	Musicianship III	2
MUS 2150	Music Theory IV: 20th-21st Century Music Theory	3
MUS 2155	Musicianship IV	2
MUS 3040	Western Music History to 1700	3
MUS 3050	Western Music History from 1700 to 1900	3
MUS 3060	Western Music History from 1900 to the present	3
MUS 2230	Class Piano IV (or passing of an equivalent piano proficiency examination)	1
Two upper-division units of applied study:		2
MUS 3400-MUS 3490 (3000-level applied study)		
Four additional units of large performance ensemble most relevant to student's applied vocal/instrumental emphasis:		4
MUS 2000	Large Music Ensemble	
MUS 3800	Symphony Orchestra	
MUS 3810	Symphonic Band	
MUS 3850	Concert Choir	
MUS 3860	Chamber Singers	
Total Units		**26**

Music Industry Studies Concentration

(Program Code: MUMI)

Concentration Requirements (16)		
MUS 2210	Class Piano II (or passing of an equivalent piano proficiency exam)	1
MUS 1270	History of Electronic Music	3
or MUS 1865	Global Hip Hop	
MUS 2670	Sound Recording	3
CAL 1140	Sustaining a Life in the Arts (similar lower-division course in a related field may be substituted with department consent)	3
or CAL 1000	You/U: Applied Humanities and Arts	
or ADMN 1001	Critical Thinking Through the Entrepreneurial Mindset	
or ADMN 1002	Interdisciplinary Leadership for a Sustainable World	
or ADMN 1003	Leadership for Global Challenges: Exploring the Digital Mindset	
CAL 4000	The Artist Entrepreneur: Innovation and Leadership in the Arts	3
CAL 4100	The Artist Entrepreneur's Toolkit	3
Concentration Electives (12)		**12**
12 units chosen from:		
MUS 2070	Introduction to Music Composition	
MUS 2140	Music Theory III: Analysis of Musical Form	
MUS 2150	Music Theory IV: 20th-21st Century Music Theory	
MUS 2266	Creating Digital Media Using Personal Electronic Technology	
MUS 2600	Commercial Songwriting	
MUS 3050	Western Music History from 1700 to 1900	
MUS 3060	Western Music History from 1900 to the present	

MUS 3460	Upper-Division Composition I	
MUS 3480	Applied Technology I	
MUS 3490	Applied Commercial Music	
MUS 3650	Music for the Screen	
MUS 3670	Music in Video Games	
MUS 4140	Commercial Arranging and Scoring	
MUS 4170	Composition for Films and Television	
MUS 4290	Topics in Music Technology (Topics classes may be repeated multiple times for credit)	
MUS 4444	Four on the Floor: Electronic Dance Music in Practice and Culture	
MUS 4460	Upper-Division Composition II	
MUS 4480	Applied Technology	
MUS 4660	Advanced Electronic Music	
CAL 4200	Venture Ideation, Analysis, and Development in the Arts	
CAL 4300	The Artist Entrepreneur Launch	
Total Units		**28**

Music, Sound, & Technology Concentration

(Program Code: MUST)

Concentration Requirements (13)		
MUS 2210	Class Piano II (or passing of an equivalent piano proficiency exam)	1
MUS 1270	History of Electronic Music	3
MUS 2670	Sound Recording	3
MUS 3337	Real-Time Multimedia Systems	3
MUS 4660	Advanced Electronic Music	3
Concentration Electives (12)		**12**
12 units chosen from:		
MUS 1865	Global Hip Hop	
MUS 2070	Introduction to Music Composition	
MUS 2266	Creating Digital Media Using Personal Electronic Technology	
MUS 2600	Commercial Songwriting	
MUS 3460	Upper-Division Composition I	
MUS 3480	Applied Technology I	
MUS 3070	Electronic and Electroacoustic Music Composition	
MUS 3833	New Music Ensemble	
MUS 4085	Instrumentation and Arranging	
MUS 3650	Music for the Screen	
MUS 3670	Music in Video Games	
MUS 4140	Commercial Arranging and Scoring	
MUS 4170	Composition for Films and Television	
MUS 4180	Film Soundtrack Recording	
MUS 4290	Topics in Music Technology (may be repeated multiple times for credit)	
MUS 4444	Four on the Floor: Electronic Dance Music in Practice and Culture	
MUS 4460	Upper-Division Composition II	
MUS 4480	Applied Technology	
MUS 4670	Advanced Studio Recording Techniques	
Total Units		**25**

Bachelor of Arts in Music Therapy

The Bachelor of Arts in Music Therapy is a four-year plus internship undergraduate degree that prepares students to be leaders among their communities in the field of music therapy. Music Therapy is an allied health profession in which music interventions are used to address therapeutic or palliative care needs. Our program is designed to generate an understanding of music, human development and exceptionality, clinical practice, and the music therapy process through classroom experience and clinical training in local and community-based settings.

This degree provides not only required core courses in music, clinical studies, and music therapy practice--thereby providing the professional competencies required by the American Music Therapy Association (AMTA)--but also 1200 hours of supervised clinical training (at least 900 of which are completed through the internship process). Completing this degree will prepare students to sit for the certification exam with the Certification Board for Music Therapists (the MT-BC credential).

Degree Requirements (83 units)

Total units required for graduation: 120

MUS 1000	Music Forum (must take at least 4 times)	4
MUS 2120	Music Theory I: Diatonic Harmony	3
MUS 2125	Musicianship I	2
MUS 2130	Music Theory II: Chromatic Harmony	3
MUS 2135	Musicianship II	2
MUS 2230	Class Piano IV	1
MUS 2660	Electronic Music Production	3
Four units chosen from the student's instrument of study:		4
MUS 1400	Lower-Division Voice I	
MUS 1410	Lower-Division Keyboard I	
MUS 1420	Lower-Division String Instrument I	
MUS 1430	Lower-Division Wind Instrument I	
MUS 1440	Lower-Division Brass Instrument I	
MUS 1450	Lower-Division Percussion Instrument I	
MUS 2400	Lower-Division Voice II	
MUS 2410	Lower-Division Keyboard II	
MUS 2420	Lower-Division String Instrument II	
MUS 2430	Lower-Division Wind Instrument II	
MUS 2440	Lower-Division Brass Instrument II	
MUS 2450	Lower-Division Percussion Instrument II	
Six units chosen from the following (at least two must be MUS 3860)		6
MUS 2000	Large Music Ensemble	
MUS 3800	Symphony Orchestra	
MUS 3810	Symphonic Band	
MUS 3850	Concert Choir	
MUS 3860	Chamber Singers	
MUS 2050	Class Guitar	1
MUS 2060	Class Voice	1

MUS 2700	Music Therapy Orientation	3
MUS 2750	Functional Skills for Music Therapy	3
MUS 2770	Improvisation for Music Therapy	2
MUS 3050	Western Music History from 1700 to 1900	3
MUS 3500	Global Music	3
MUS 3760	Psychology of Music	3
MUS 3780	Clinical Principles in Music Therapy	3
MUS 3781	Music Therapy Observation	2
Two units of Music Therapy Group Lab		2
MUS 3782	Music Therapy Group Lab	
MUS 3790	Music Therapy for Adults	2
MUS 3791	Music Therapy for Children	2
PSYC 1100	Introduction to Psychology	3
PSYC 3390	Abnormal Psychology	3
BIOL 1000	Introduction to Biology	3
BIOL 1000L	Introduction to Biology Lab	1
KINE 3050	Disability, Society and Physical Activity	3
Four units of Music Therapy Practicum		4
MUS 4700	Music Therapy Practicum	
Internship in Music Therapy (8 units total required)		8
MUS 5754	Internship in Music Therapy	
Total Units		83

Bachelor of Music

The Bachelor of Music program prepares students for careers as professional performers of classical art music or in music teaching. Students must meet rigorous academic and artistic standards to enter and continue in the program, and after graduation the majority of students in performance concentrations pursue advanced music degrees or similar post-baccalaureate training. Students in the music education concentration pursue post-baccalaureate credentials to teach music. The performance concentrations puts particular focus on real world performing as a supplementary learning experience, with emphasis on auditions for professional engagements and competitions, service learning, and formation of ad hoc ensembles. The music education concentration puts similar focus on pre-professional activities, including substantive observations in school music settings, as well as pursuit of meaningful paid or volunteer teaching in such settings.

Entrance to Bachelor of Music requires a demonstration of significant academic, performance, and intellectual achievement. Students may apply at any time for entrance to the Bachelor of Music, but freshmen students usually apply to enter the program after the completion of two semesters of CSUSB coursework, and transfers usually apply immediately before their first semester of enrollment. Students whose initial application does not result in acceptance into the program may apply a maximum of one additional time.

Only Bachelor of Music students in performance concentrations may enroll in "applied and repertoire" courses (MUS 2390-MUS 2395, MUS 3390-MUS 3395, and MUS 4390-MUS 4395), and they may enroll for a maximum of three semesters at each level. After three semesters at one level, a student unable to satisfy completion requirements cannot continue in the Bachelor of Music degree and will be counseled to instead pursue the BA in Music or a degree in some other discipline.

All students enrolled as full-time music majors in the Bachelor of Music are required to participate each semester until graduation in a major performing ensemble most appropriate to a student's applied emphasis:

As prerequisites for acceptance into the Bachelor of Music, students must complete the following as a Pre--Bachelor of Music major.

1. Complete the following courses with a minimum grade of C- in each:

MUS 2120	Music Theory I: Diatonic Harmony	3
MUS 2125	Musicianship I	2
MUS 2130	Music Theory II: Chromatic Harmony	3
MUS 2135	Musicianship II	2

2. Complete 2 units in one of:

MUS 1400	Lower-Division Voice I	1
MUS 1410	Lower-Division Keyboard I	1
MUS 1420	Lower-Division String Instrument I	1
MUS 1430	Lower-Division Wind Instrument I	1
MUS 1440	Lower-Division Brass Instrument I	1
MUS 1450	Lower-Division Percussion Instrument I	1

3. Pass a diagnostic test of music theory knowledge;

4. Pass a performance audition. Students must demonstrate a high potential for succes as a professional musical performer or music teacher based on a performance audition for a committee of music faculty. Students must perform two contrasting works of significant repertoire for their audition; vocalists must include works in two different languages;

5. Submit a written essay as part of a formal application process. More information about the essay's expected content is available in the Department of Music's handbook.

Upon acceptance into the Bachelor of Music, the student's major will be changed from Pre-Bachelor of Music to Bachelor of Music. The requirements for the Pre-Bachelor of Music major are also requirements for the Bachelor of Arts in Music. Students who are not accepted to the Bachelor of Music degree, or who decide not to pursue it, can easily change their degree objective to the Bachelor of Arts in Music. More information about the application process is available in the Department of Music's handbook, the department office in Performing Arts, room 111, and by phone at (909) 537-5859. Transfer students who have already completed the Pre-Bachelor of Music requirements listed below should apply to the Bachelor of Music in Performance program immediately after acceptance to CSUSB.

Continuation in and graduation from the program require the following:

1. A minimum GPA of 2.0 in all CSUSB coursework, and a minimum GPA of 2.0 in all CSUSB music coursework. Students whose academic achievement falls below either GPA minimum for two or more consecutive semesters in a row cannot continue in the program;

2. Normally two semesters are required in each level of applied lessons, and a maximum of three semesters of enrollment are allowed in each level. Students not able in three semesters to

complete requirements for an applied level cannot continue in the Bachelor of Music program.

Additionally, before enrolling in MUS 3390 Junior Recital or MUS 5981 Music Education Senior Project, students must satisfy the piano proficiency requirement (by examination or completion of MUS 2210) and complete all "core" music theory and musicianship courses (MUS 2120, MUS 2125, MUS 2130, MUS 2135, MUS 2140, MUS 2145, MUS 2150, and MUS 2155). Approval to give a performance for MUS 3390 Junior Recital or MUS 4990 Senior Recital requires completion of a recital hearing at least four weeks before the planned performance date. Recital hearings are played for a faculty committee that includes a student's studio teacher and at least two other faculty members. For MUS 4990, students must submit written program notes at their hearings that meet writing, formatting,and content standards published in the Department of Music handbook. If program notes do not meet the department's minimum standards, the hearing committee can deny the student permission for the recital performance. The department's handbook is published online at the Music department website.

Degree Requirements (79-82 units)

Total units required for graduation (125-128)

Core Requirements (46)		
Music Theory		
MUS 2120	Music Theory I: Diatonic Harmony	3
MUS 2125	Musicianship I	2
MUS 2130	Music Theory II: Chromatic Harmony	3
MUS 2135	Musicianship II	2
MUS 2140	Music Theory III: Analysis of Musical Form	3
MUS 2145	Musicianship III	2
MUS 2150	Music Theory IV: 20th-21st Century Music Theory	3
MUS 2155	Musicianship IV	2
MUS 2660	Electronic Music Production	3
Conducting		
MUS 2100	Conducting	2
Piano proficiency		
MUS 2230	Class Piano IV *	1
Music history		
MUS 3040	Western Music History to 1700	3
MUS 3050	Western Music History from 1700 to 1900	3
MUS 3060	Western Music History from 1900 to the present	3
MUS 3500	Global Music +	3
Eight units chosen from:		8
MUS 2000	Large Music Ensemble	
MUS 3800	Symphony Orchestra	
MUS 3810	Symphonic Band	
MUS 3850	Concert Choir	
MUS 3860	Chamber Singers	
MUS 3880	Women's Chorus	
Participation in one of the major performance organizations most appropriate to the student's major instrument is required each semester in residence with a maximum of eight units being applied to the Major		
Concentration (33-36)		
Students must satisfy the requirements of one of the concentrations listed below		33-36
Total Units		**79-82**

* Piano proficiency can also be met by examination. Contact the Department of Music for details.

\+ Double counts for GE category UD-3.

Concentrations (32-36 units)

Conducting Performance Concentration (32)

(Program Code: MUCP)

Two units selected from:		2
MUS 1400	Lower-Division Voice I	
MUS 1410	Lower-Division Keyboard I	
MUS 1420	Lower-Division String Instrument I	
MUS 1430	Lower-Division Wind Instrument I	
MUS 1440	Lower-Division Brass Instrument I	
MUS 1450	Lower-Division Percussion Instrument I	
Two units selected from:		2
MUS 2400	Lower-Division Voice II	
MUS 2410	Lower-Division Keyboard II	
MUS 2420	Lower-Division String Instrument II	
MUS 2430	Lower-Division Wind Instrument II	
MUS 2440	Lower-Division Brass Instrument II	
MUS 2450	Lower-Division Percussion Instrument II	
Two units selected from:		2
MUS 3400	Upper-Division Voice I	
MUS 3410	Upper-Division Keyboard Instrument I	
MUS 3420	Upper-Division String Instrument I	
MUS 3430	Upper-Division Wind Instrument I	
MUS 3440	Upper-Division Brass Instrument I	
MUS 3450	Upper-Division Percussion Instrument I	
Two units selected from:		2
MUS 2010	Class Strings	
MUS 2020	Class Woodwinds	
MUS 2030	Class Brass	
MUS 2040	Class Percussion	
Successfully complete each of the following:		
MUS 1000	Music Forum Must be taken three times.	3
MUS 2060	Class Voice	1
MUS 2110	Lyric Diction I	2
MUS 2111	Lyric Diction II	2
MUS 3010	Advanced Choral Conducting and Literature	2
MUS 3030	Advanced Instrumental Conducting and Literature	2
MUS 3600	Choral Methods	2

MUS 3702	Symphonic Orchestral Methods	2
MUS 4030	Score Study & Analysis for Conductors	3
MUS 4040	Professional Conducting & Literature	2
MUS 4850	Conducting Pedagogy	2
MUS 4990	Senior Recital	1
Total Units		**32**

Pre-Teaching Credential Concentration (35-36)

(Program Code: MUME)

Applied Study		
Two units selected from:		2
MUS 1400	Lower-Division Voice I	
MUS 1410	Lower-Division Keyboard I	
MUS 1420	Lower-Division String Instrument I	
MUS 1430	Lower-Division Wind Instrument I	
MUS 1440	Lower-Division Brass Instrument I	
MUS 1450	Lower-Division Percussion Instrument I	
Two units selected from:		2
MUS 2400	Lower-Division Voice II	
MUS 2410	Lower-Division Keyboard II	
MUS 2420	Lower-Division String Instrument II	
MUS 2430	Lower-Division Wind Instrument II	
MUS 2440	Lower-Division Brass Instrument II	
MUS 2450	Lower-Division Percussion Instrument II	
Two units selected from:		2
MUS 3400	Upper-Division Voice I	
MUS 3410	Upper-Division Keyboard Instrument I	
MUS 3420	Upper-Division String Instrument I	
MUS 3430	Upper-Division Wind Instrument I	
MUS 3440	Upper-Division Brass Instrument I	
MUS 3450	Upper-Division Percussion Instrument I	
MUS 1000	Music Forum (for a total of 4 units))	4
MUS 2010	Class Strings	2
MUS 2020	Class Woodwinds	2
MUS 2030	Class Brass	2
MUS 2040	Class Percussion	2
MUS 2050	Class Guitar	1
MUS 2114	Introduction to Music Education	2
One course selected from:		1-2
MUS 2060	Class Voice	
MUS 2110	Lyric Diction I	
MUS 2111	Lyric Diction II	
One course selected from:		2
MUS 3010	Advanced Choral Conducting and Literature	
MUS 3030	Advanced Instrumental Conducting and Literature	
One course selected from:		2
MUS 3600	Choral Methods	
MUS 3700	Marching Band Methods	
MUS 4085	Instrumentation and Arranging	2
MUS 4100	Music in the Elementary Schools	3
MUS 4110	Teaching Music in Secondary Schools	3
MUS 5981	Music Education Senior Project	1
Total Units		**35-36**

Vocal Performance Concentration (33 units)

(Program Code: MUVP)

Applied Study		
MUS 1400	Lower-Division Voice I (for a total of 2 units)	2
MUS 2390	Applied Voice and Repertoire I (for a total of 4 units)	4
MUS 3390	Applied Voice and Repertoire II (for a total of 4 units)	4
MUS 4390	Applied Voice and Repertoire III (for a total of 4 units)	4
MUS 1000	Music Forum (for a total of 2 units)	2
Chamber music		
Three units chosen from:		3
MUS 3870	Opera Theatre I	
MUS 3970	Opera Theatre II	
MUS 2110	Lyric Diction I	2
MUS 2111	Lyric Diction II	2
MUS 3110	Performance Literature	2
MUS 4500	Applied Pedagogy	1
MUS 3990	Junior Recital	1
MUS 4990	Senior Recital	1
Foreign Language *		3
Elective units in music		2
Total Units		**33**

* Three units from German, French, and Italian language, subject to advisor's approval. Additional units in language highly recommended.

Instrumental Performance Concentration (33 units)

(Program Code: MUIP)

Applied Study		14
Two units selected from:		
MUS 1420	Lower-Division String Instrument I	
MUS 1430	Lower-Division Wind Instrument I	
MUS 1440	Lower-Division Brass Instrument I	
MUS 1450	Lower-Division Percussion Instrument I	
Four units selected from:		
MUS 2392	Applied Strings and Repertoire I	
MUS 2393	Applied Woodwind and Repertoire I	
MUS 2394	Applied Brass and Repertoire I	
MUS 2395	Applied Percussion and Repertoire I	
Four units selected from:		
MUS 3392	Applied Strings and Repertoire II	
MUS 3393	Applied Woodwind and Repertoire II	
MUS 3394	Applied Brass and Repertoire II	

MUS 3395	Applied Percussion and Repertoire II	
Four units selected from:		
MUS 4392	Applied Strings and Repertoire III	
MUS 4393	Applied Woodwind and Repertoire III	
MUS 4394	Applied Brass and Repertoire III	
MUS 4395	Applied Percussion and Repertoire III	
MUS 1000	Music Forum (for a total of 2 units)	2
Chamber Music		4
Four units selected from:		
MUS 3820	Chamber Winds	
MUS 3821	Chamber Music: Percussion Ensemble	
MUS 3822	Chamber Music: Flute Choir	
MUS 3823	Chamber Music: Brass Quintet	
MUS 3824	Chamber Music: Saxophone Ensemble	
MUS 3826	Chamber Music: Clarinet Ensemble	
MUS 3827	Chamber Music: Jazz Combo	
MUS 3830	Chamber Music: Strings	
MUS 3831	Chamber Music: Piano	
MUS 3910	Jazz Ensemble	
MUS 3920	Vocal Jazz	
MUS 3030	Advanced Instrumental Conducting and Literature	2
MUS 3110	Performance Literature	2
MUS 4500	Applied Pedagogy	1
MUS 3990	Junior Recital	1
MUS 4990	Senior Recital	1
Music electives		6
Total Units		**33**

Piano Performance Concentration (33 units)

(Program Code: MUSP)

Applied Study		14
MUS 1410	Lower-Division Keyboard I (for a total of 2 units)	
MUS 2391	Applied Piano and Repertoire I (for a total of 4 units)	
MUS 3391	Applied Piano and Repertoire II (for a total of 4 units)	
MUS 4391	Applied Piano and Repertoire III (for a total of 4 units)	
MUS 1000	Music Forum (for a total of 2 units)	2
Chamber Music		6
MUS 3831	Chamber Music: Piano (for a total of 4 units)	
Two units selected from:		
MUS 3820	Chamber Winds	
MUS 3821	Chamber Music: Percussion Ensemble	
MUS 3822	Chamber Music: Flute Choir	
MUS 3823	Chamber Music: Brass Quintet	
MUS 3824	Chamber Music: Saxophone Ensemble	
MUS 3826	Chamber Music: Clarinet Ensemble	
MUS 3827	Chamber Music: Jazz Combo	
MUS 3830	Chamber Music: Strings	
MUS 3870	Opera Theatre I	
MUS 3970	Opera Theatre II	
MUS 3910	Jazz Ensemble	
MUS 3920	Vocal Jazz	
MUS 3110	Performance Literature	2
MUS 4500	Applied Pedagogy	1
MUS 3990	Junior Recital	1
MUS 4990	Senior Recital	1
Music electives		6
Total Units		**33**

Guitar Performance Concentration (33 units)

(Program Code: MUGP)

Applied Study		14
MUS 1420	Lower-Division String Instrument I (for a total of 2 units)	
MUS 2392	Applied Strings and Repertoire I (for a total of 4 units)	
MUS 3392	Applied Strings and Repertoire II (for a total of 4 units)	
MUS 4392	Applied Strings and Repertoire III (for a total of 4 units)	
MUS 1000	Music Forum (for a total of 2 units)	2
Chamber Music		6
MUS 3825	Chamber Music: Guitar Ensemble (for a total of 4 units)	
Two units selected from:		
MUS 3820	Chamber Winds	
MUS 3821	Chamber Music: Percussion Ensemble	
MUS 3822	Chamber Music: Flute Choir	
MUS 3823	Chamber Music: Brass Quintet	
MUS 3824	Chamber Music: Saxophone Ensemble	
MUS 3826	Chamber Music: Clarinet Ensemble	
MUS 3827	Chamber Music: Jazz Combo	
MUS 3830	Chamber Music: Strings	
MUS 3831	Chamber Music: Piano	
MUS 3910	Jazz Ensemble	
MUS 3920	Vocal Jazz	
MUS 3110	Performance Literature	2
MUS 4500	Applied Pedagogy	1
MUS 3990	Junior Recital	1
MUS 4990	Senior Recital	1
Music electives		6
Total Units		**33**

Minor in Alternative Styles of Music

This minor is being proposed to meet the needs of our students who frequently come in to the Music Department with a background in alternative styles (jazz, mariachi, rock n'roll, etc.), and are seeking to pursue a career in a field other than western classical music. The minor

essentially requires students to take six units of music history courses that are pertinent to alternative styles, students need to do eight units of "applied" instrument, composing/arranging, and/or technology studies, they have a three unit alternative styles ensemble requirement, and then the music business class "The Artist Entrepreneur's Toolkit" and the Alternative Styles Capstone, which will require them to prepare a final project performance, based on what they have learned and assimilated as performers throughout the coursework for this minor. The goal is to help students become well-rounded in the history, construction, and performance practice associated with alternative styles, and then to be able to couple this knowledge with a music business class and a capstone project that will prepare our students for a career in the "real world" industry of alternative/popular styles of music.

Requirements for a minor in Alternative Styles in Music (21 units)

Pre-requisite requirements: (0)		
MUS 1100	Fundamentals of Music Theory	
MUS 1110	Basic Musicianship	
MUS 2120	Theory I	
MUS 2125	Musicianship I	
6 units chosen from: (6)		**6**
MUS 2350	Popular Music Literature	
MUS 3309	Jazz History in America and African-American Culture	
MUS 3500	Global Music	
MUS 3510	Latin American Music	
MUS 3520	African American Music	
CAL 1804	Rock and Roll: Justice and Society	
MUS 3610	Music in the United States	
8 units chosen from: (8)		**8**
MUS 2050	Class Guitar	
MUS 2200	Class Piano I	
MUS 2210	Class Piano II	
MUS 2220	Class Piano III	
MUS 2224	Popular/Commercial Class Piano	
MUS 2600	Commercial Songwriting	
MUS 2660	Electronic Music Production	
MUS 2670	Sound Recording	
MUS 3300	Jazz Improvisation	
MUS 4140	Commercial Arranging and Scoring	
MUS 4170	Composition for Films and Television	
MUS 4290	Topics in Music Technology	
MUS 4660	Advanced Electronic Music	
MUS 4670	Advanced Studio Recording Techniques	
3 units chosen from: (3)		**3**
MUS 3827	Chamber Music: Jazz Combo	
MUS 3828	Chamber Music: World Music	
MUS 3834	El Mariachi Los Coyotes	
MUS 3910	Jazz Ensemble	
MUS 3920	Vocal Jazz	
MUS 3960	Reverence Singers	
Required courses: (4)		**4**
CAL 4100	The Artist Entrepreneur's Toolkit	
MUS 3835	Alternative Styles Capstone	
Total Units		**21**

In addition to the grade point average requirements stated in Program Requirements for a Bachelor's Degree, students must earn a grade of "C" (2.0) or better in all courses required to fulfill the Minor in Alternative Styles of Music.

Minor in Music

The Minor in Music offers the opportunity for non-music majors to participate in the performing, creative, and scholarly activities of the Music Department. The 19-unit minor begins with lower-division introductory studies in music appreciation, music theory, and on performing on an instrument/voice, and continues with participation in chamber and/or large performance ensembles (such as orchestra, choir, or band), as well as upper-division elective courses in the scholarly and/or musicological study of various topics within the discipline.

Requirements for a minor in Music (19 units)

MUS 1800	Music Appreciation	3
Three units chosen from:		3
MUS 1100	Fundamentals of Music Theory	
MUS 2120	Music Theory I: Diatonic Harmony	
Two units chosen from:		2
MUS 2050	Class Guitar	
MUS 2060	Class Voice	
MUS 2200	Class Piano I	
MUS 2210	Class Piano II	
Nine units chosen from:		9
MUS 3040	Western Music History to 1700	
MUS 3050	Western Music History from 1700 to 1900	
MUS 3080	Women in Music	
MUS 3309	Jazz History in America and African-American Culture	
MUS 3500	Global Music	
MUS 3610	Music in the United States	
MUS 3650	Music for the Screen	
MUS 3670	Music in Video Games	
MUS 4020	Topics in Music History	
Two units chosen from:		2
MUS 3821-3838: Chamber Music Ensembles		
MUS 3800	Symphony Orchestra	
MUS 3810	Symphonic Band	
MUS 3850	Concert Choir	
MUS 3860	Chamber Singers	
Total Units		**19**

Minor in Music Technology

The Minor in Music Technology provides students with a foundational core of study in music theory, electronic music production, and sound

recording. After attaining this proficiency, students then have to opportunity to hone in their focus on a variety of specialized topics, such as analog and digital synthesis, live sound reinforcement, post-production sound design, and scoring for diverse media (including film, television, and video games). The minor is intended to augment career preparation for not only students majoring in music, but also students majoring in other media-related disciplines.

Requirements for a Minor in Music Technology (18 units)

3 units of Music Theory chosen from:		3
MUS 1100	Fundamentals of Music Theory	
MUS 2120	Music Theory I: Diatonic Harmony	
6 units of the Music Technology core:		6
MUS 2660	Electronic Music Production	
MUS 2670	Sound Recording	
9 units of advanced electives chosen from:		9
MUS 3070	Electronic and Electroacoustic Music Composition	
MUS 3337	Real-Time Multimedia Systems	
MUS 3670	Music in Video Games	
MUS 4170	Composition for Films and Television	
MUS 4180	Film Soundtrack Recording	
MUS 4290	Topics in Music Technology (may be repeated multiple times for credit)	
MUS 4444	Four on the Floor: Electronic Dance Music in Practice and Culture	
MUS 4660	Advanced Electronic Music	
MUS 4670	Advanced Studio Recording Techniques	
Total Units		**18**

Department of Philosophy

University Hall, Room 235
(909) 537-5869 Department of Philosophy website (http://philosophy.csusb.edu)

Philosophy is excellent preparation for a career in law, business, government, journalism and a wide variety of professional areas; and it is excellent preparation for different sorts of graduate and professional study. Philosophy focuses on clear thinking and critical evaluation of ideas, and thus it provides rigorous training for anyone whose profession involves creative thought, analysis, clear articulation of ideas, clear writing, and application and evaluation of diverse perspectives and methodologies. Philosophy does not provide training in specific job tasks; rather, it focuses on broadly applicable intellectual skills that will prepare students for the more challenging jobs they will encounter as their career advances.

Philosophy's range of application is particularly broad. Through philosophy, one may think about and develop perspectives on topics as diverse as God, science, language, logic, truth, ethics, politics and law. Typically, philosophy leaves aside the doing of the religion and science and asks fundamental questions about the nature of and justification for the various perspectives.

Departmental Honors

To attain departmental honors, a student must write a successful honors thesis under the guidance of a faculty committee. To qualify for the honors program a student must have:

1. An overall grade point average of 3.0 ("B");
2. A grade point average of 3.5 in philosophy courses;
3. At least five philosophy courses must have been taken at California State University, San Bernardino, one of which may be lower-division, not counting courses satisfying the general education requirements.

Application for the honors program must be made in writing to the department two semesters before graduation. Students contemplating an honors thesis are encouraged to consult with a faculty member well in advance and they are also welcome to drop into the department office to request more information.

Current Faculty

Kaitlyn Creasy, Associate Professor of Philosophy, Interim Chair, Interim Chair
B.A. 2010, New York University
Ph.D. 2017, University of New Mexico

Andrea Daventry, Assistant Professor of Philosophy
B.A. 2011, University of Central Florida
M.A. 2013, University of Florida
Ph.D. 2020, University of Massachusetts Amherst

Matthew Davidson, Professor of Philosophy, Chair
B.A. 1994, University of Illinois
M.A. 1997, University of Notre Dame
Ph.D. 2000, University of Wisconsin

Brandon Johns, Lecturer in Philosophy
B.A. 2003, University of California - Riverside
Ph.D. 2012, University of Southern California

John Mumma, Professor of Philosophy
B.A. 1996, Cornell University
M.S. 2006, Ph.D. 2006, Carnegie Mellon University

Chris Naticchia, Professor of Philosophy
B.A. 1985, Cornell University
M.A. 1987, New York University, New York
Ph.D. 1995, University of Virginia, Charlottesville

Van Tu, Assistant Professor of Philosophy
B.A. 2011, University of Florida
M.A. 2019, Ph.D. 2020, University of Michigan, Ann Arbor

William Vanderburgh , Professor of Philosophy
B.A. 1993, University of Western Ontario
M.A. 1994, University of Western Ontario
Ph.D. 2001, University of Western Ontario

Emeriti

B. Jill Buroker

Susan M. Finsen

Paul J. Johnson

Thomas E. Moody

Peter Robertshaw

Tony D. Roy

Undergraduate Degree

Bachelor of Arts

Philosophy (p. 207)

Minors

Applied Ontology (p. 208)

Law and Philosophy (p. 208)

Philosophical Logic (p. 209)

Philosophy (p. 209)

Bachelor of Arts in Philosophy

The philosophy department at CSUSB addresses a student's need for personal growth and understanding through the history of human intellectual thought, and fundamental questions in areas as diverse as logic, science, and ethics. Philosophy is humanity's oldest intellectual discipline; its range of application is broad. Through philosophy one may think about and develop perspectives on topics as diverse as God, science, language, logic, truth, ethics, politics and law. Typically philosophy leaves aside the *doing* of the religion, science, etc. and asks fundamental questions about the *nature* of and *justification* for the various perspectives.

Degree Requirements (36 units)

Total units for graduation: 120

(Program Code: PHIL)

Lower-division requirements (3)		
Basic Logic		
PHIL 2100	Critical Thinking Through Symbolic Logic	3
Upper-division requirements (24)		
History		
PHIL 3210	Ancient Philosophy	3
PHIL 3250	Early Modern Philosophy	3
Value Theory		
Six units chosen from:		6
PHIL 3310	Ethics	
PHIL 3540	Feminist Philosophy	
PHIL 3315	Moral Psychology	
PHIL 3330	Social and Political Philosophy	
Metaphysics/Knowledge		
Six units chosen from:		6
PHIL 3550	Metaphysics	
PHIL 3580	Philosophy of Language	
PHIL 3510	Theory of Knowledge	
PHIL 3410	Philosophy of Religion	
PHIL 3560	Philosophy of Logic and Mathematics	
PHIL 3520	Philosophy of Science	
PHIL 3530	Social Epistemology	
19th and 20th Century European Philosophy		
Three units chosen from:		3
PHIL 3610	Phenomenology	
PHIL 3620	Existentialism	
Advanced Issues		
Three units chosen from:		3
PHIL 4100	Advanced Issues in Logic	
PHIL 4200	Advanced Issues in History of Philosophy	
PHIL 4300	Advanced Issues in Value Theory	
PHIL 4500	Advanced Issues in Metaphysics and Knowledge	
PHIL 4900	Advanced Topics in Philosophy	
Electives (9)		
Nine units chosen from philosophy courses. Elective units may include philosophy courses taken to satisfy General Education requirements. No more than 6 elective units from philosophy courses numbered 1005 – 3099. In consultation with the chair, philosophy majors are encouraged to include philosophy courses from study abroad in their elective category. Students with philosophy as a double major may complete the elective requirements for the philosophy major by taking up to nine units in non-philosophy courses that are related to the philosophy major. These customized non-philosophy elective packages need to form a coherent plan of study within the philosophy major and should be constructed in consultation with a faculty advisor; the plan of the elective package then needs to be submitted to and approved by the department chair.		9
Total Units		**36**

Critical Thinking: Majors need not satisfy the GE Critical Thinking Requirement with PHIL 2100; but students who fulfill the requirement with PHIL 2100 thereby satisfy the prerequisite for PHIL 3100.

Minor in Law and Philosophy

Requirements for a minor in Law and Philosophy (18 units)

Core requirements (9)		
PHIL 2100	Critical Thinking Through Symbolic Logic	3
Three units chosen from:		3
PHIL 3350	Philosophy of Law	
PHIL 3355	Jurisprudence	
Three units chosen from:		3
PHIL 3310	Ethics	
PHIL 3330	Social and Political Philosophy	
Electives (9)		
Nine units chosen from the following courses, or any 3000 level course above not used to satisfy a core requirement.		9
PHIL 3100	Predicate Logic	
PHIL 3390	Topics in Value Theory	
PHIL 4300	Advanced Issues in Value Theory	
PHIL 5752	Internship in Philosophy	
PHIL 5951	Independent Study	
Total Units		**18**

The Law and Philosophy minor is open to students in any major. However, only core requirements PHIL 2100 and PHIL 3310 or PHIL 3330 will count toward satisfaction of general education requirements, the philosophy major, the philosophy minor, or the minor in philosophical logic.

Minor in Applied Ontology

The minor in applied ontology will help prepare students for jobs in industry (technology and government) that require understanding of applied ontology. Applied ontology finds application in various industries, such as informational system modeling, artificial intelligence, library science, and biomedical research. Large technology and biomedical companies are hiring people trained in applied ontology to help them organize and implement core business elements. This minor provides the student with training to succeed in this sort of industrial setting.

Minor in Applied Ontology (18-19 units)

Core Requirements (15)		
PHIL 1015	Introduction to Knowledge and Reality	3
PHIL 2100	Critical Thinking Through Symbolic Logic	3
PHIL 3100	Predicate Logic	3
PHIL 3550	Metaphysics	3
Three units chosen from:		3
PHIL 4100	Advanced Issues in Logic	
PHIL 3110	Alternative Logics	
PHIL 3560	Philosophy of Logic and Mathematics	

PHIL 4500	Advanced Issues in Metaphysics and Knowledge	
PHIL 3580	Philosophy of Language	
Electives. (3-4)		**3-4**
Choose 3-4 units from:		
PHIL 4100	Advanced Issues in Logic	
PHIL 3110	Alternative Logics	
PHIL 3560	Philosophy of Logic and Mathematics	
PHIL 4500	Advanced Issues in Metaphysics and Knowledge	
PHIL 3580	Philosophy of Language	
CSE 1100	Critical Thinking Through Computer Programming	
CSE 1250	Programming Basics	
Total Units		**18-19**

No course may count both as satisfying a core requirement and an elective.

Minor in Philosophical Logic

Requirements for a minor in Philosophical Logic (18 units)

Core requirements (9)		
PHIL 2100	Critical Thinking Through Symbolic Logic	3
PHIL 3100	Predicate Logic	3
PHIL 3560	Philosophy of Logic and Mathematics	3
Advanced Issues (3)		
PHIL 4100	Advanced Issues in Logic	3
(Introductory Metalogic or Incompleteness and Computability Topic)		
Electives (6)		
Six units from the non-classical logics topic of PHIL 3110, the inductive logic topic of PHIL 3110, and/or a topic of PHIL 4100 not used to satisfy the advanced issues requirement.		6
Total Units		**18**

NOTE:

The Minor in Philosophical Logic is open to students in any major. However, only the core requirements PHIL 2100 and PHIL 3100 may also count toward satisfaction of General Education requirements, the philosophy major, philosophy minor, or minor in law and philosophy.

Minor in Philosophy

Requirements for a minor in Philosophy (18 units)

Basic Logic (3)		
PHIL 2100	Critical Thinking Through Symbolic Logic	3
History (3)		
Three units chosen from:		3
PHIL 3210	Ancient Philosophy	
PHIL 3250	Early Modern Philosophy	
PHIL 3290	Topics in the History of Philosophy	
PHIL 3630	Continental Philosophy	
PHIL 4200	Advanced Issues in History of Philosophy	
Metaphysics/Knowledge (3)		
Three units chosen from:		3
PHIL 3550	Metaphysics	
PHIL 3580	Philosophy of Language	
PHIL 3510	Theory of Knowledge	
PHIL 3520	Philosophy of Science	
PHIL 3590	Topics in Metaphysics and Knowledge	
PHIL 4500	Advanced Issues in Metaphysics and Knowledge	
Value Theory (3)		
Three units chosen from:		3
PHIL 3310	Ethics	
PHIL 3320	Latin American Philosophy	
PHIL 3330	Social and Political Philosophy	
PHIL 3350	Philosophy of Law	
PHIL 3355	Jurisprudence	
PHIL 3390	Topics in Value Theory	
PHIL 4300	Advanced Issues in Value Theory	
Electives (6)		
Six units chosen from philosophy courses. Elective units may include philosophy courses taken to satisfy General Education requirements. No more than 3 elective units numbered 1000 – 2999, no more than 3 elective units numbered 3000 – 3099.		6
Total Units		**18**

The philosophy minor is not open to philosophy majors (since all the courses in the minor contribute to the major). Only the logic requirement PHIL 2100 may also count toward satisfaction of General Education requirements, minor in philosophical logic, or minor in law and philosophy.

Minor in Philosophy, Policy, and Economics

Requirements for a minor in Philosophy, Policy and Economics (21 units)

Students must complete 21 units from the courses listed below with a minimum of six units in each of the fields. Students who major in philosophy, political science or economics must earn 15 units outside their major from the courses listed below.		21
Philosophy		
PHIL 3330	Social and Political Philosophy	
PHIL 3350	Philosophy of Law	
PHIL 3355	Jurisprudence	
PHIL 3390	Topics in Value Theory	
PHIL 4300	Advanced Issues in Value Theory	
Economics		
ECON 3101	Political Economy of Southern California	

ECON 3103	Environmental Economics	
ECON 3105	Political Economy	
ECON 3109	Political Economy of Women	
ECON 3125	Economic History of the United States	
Political Science		
PSCI 3100	Classical Political Thought	
PSCI 3110	Foundations of Modern Political Thought	
PSCI 3130	Modern Political Thought	
PSCI 3150	Post Modern Political Thought	
Total Units		**21**

Department of Theatre Arts

Performing Arts Building, Room 111
(909) 537-5876 Department of Theatre Arts website (http://theatre.csusb.edu/)

The theatre arts major is a practical liberal arts degree. The broad range of subjects studied enable the theatre student to qualify for a wide variety of fields. Theatre majors are found in the professional areas of live theatre, film, television, corporate and media training, radio, public relations, advertising, business law, teaching, and higher education.

The diverse nature of theatre explores expressions of human interactions and conflict. This study develops intellectual awareness about the human condition. It helps develop skills for working as a theatre artist and as an individual who understands team work.

Liberal studies majors will benefit from a departmental philosophy that good theatre training is also excellent teacher training. Many courses in the department have no prerequisites, and they will help liberal studies students to prepare for careers in teaching.

The Theatre Arts Department produces five major plays during the academic year. The department also presents several student directed/designed productions. In addition, the department has touring groups including The Imagination Players, an elementary school tour; and the Sun Tour, multiethnic theme plays for high school and community college students.

In addition to acting and backstage opportunities, theatre students are encouraged to work with faculty as assistant directors, designers, stage managers, and in theatre administration. Theatre faculty encourage highly motivated and qualified students to develop their own creative efforts. New student play scripts and innovative approaches to theatre are strongly encouraged.

Current Faculty

Guillermo Aviles-Rodriguez, Assistant Professor of Theatre Arts
B.F.A. 1999, University of Utah
M.A. 2002, University of California, San Diego
Ph.D. 2021, University of California, Los Angeles

Andre Harrington, Professor of Theatre Arts
B.S. 1986, University of Maryland, College Park
M.F.A. 2005, The University of Iowa, Iowa City

Kristi Papailler, Associate Professor of Theater Arts
B.A. 2009, University of Louisville
M.F.A. 2014, University of Louisville

Johanna L. Smith, Professor of Theatre Arts and Entrepreneurship and Innovation
B.A. 1994, Miami University, Ohio
M.F.A. 1998, Arizona State University

Terry D. Smith, Professor of Theatre Arts
B.F.A. 1974, Virginia Commonwealth University, Richmond
M.A. 1993, California State University, Northridge
Ph.D. 1996, University of Washington, Seattle

Emeriti

Kathryn Ervin

Lee A. Lyons

Margaret A. Perry

Thomas E. Provenzano

Amanda Sue Rudisill

Bachelor of Arts

Theatre Arts (p. 211)
with concentrations in:
- Acting
- Design/Technical
- Drama Education
- Musical Theatre
- Teaching Secondary Theatre

Dance (p. 212)

Theatre Arts (p. 215)

Bachelor of Arts in Theatre Arts

Requirements (49-55 units)

Total units required for graduation: 120

Requirements for the B.A. in Theatre Arts

Lower Division Requirements (12)		
TA 1140	Fundamentals of Acting	3
TA 2131	Fundamentals of Stage Design	3
Lower division technical requirements (6) (for all concentrations EXCEPT TSEC)		
6 units chosen from:		6
TA 1631	Makeup for Stage and Screen	
TA 2136	Costume Construction	
TA 2135	Lighting for Stage and Screen	
TA 2134	Sound for Stage and Screen	
Upper Division Requirements (19)		
TA 3122	Performance Practicum	2
TA 3132	Technical Practicum	2
TA 3143	Fundamentals of Directing	3
TA 3161	Theatre History and Literature I	3
TA 3162	Theatre History and Literature II	3
TA 4163	Criticism of Plays in Performance	3
One from the following courses:		3
TA 4661	Dramatic Literature I: Classical to 1800 (One from the following)	
TA 4662	Dramatic Literature II: 19th Century to Contemporary	
TA 4663	Dramatic Literature of Identity	
Concentration (18-24)		
Students must satisfy the requirements of one of the concentrations listed below		18-24
Total Units		**49-55**

Concentrations (18-24 units)

Acting Concentration (24 units)

(Program Code: TACT)

TA 3210	Voice and Movement	3
TA 3240	Scene Study	3
TA 4241	Styles of Acting	3
One course (3) from:		
TA 4242	Acting for the Camera	3
or TA 4510	Acting in Musical Theatre	
TA 4510	Acting in Musical Theatre	3
TA 1141	Improvisation	3
Professional Preparation Courses: (6)		
TA 4170	Theatre Applications/Project Preparation	3
TA 4171	Theatre Arts Capstone	3
Total Units		**24**

Design/Technical Concentration (18 units)

(Program Code: TADT)

Two of the following courses:		6
TA 3320	Scenic Design	
TA 3330	Costume Design	
TA 3340	Sound Design	
TA 3350	Lighting Design	
Two of the following courses:		6
TA 4320	Scenic Crafts	
TA 4330	Costume Crafts	
TA 4340	Lighting Crafts	
TA 4350	Audio Crafts	
Professional Preparation Courses: (6)		
TA 4170	Theatre Applications/Project Preparation	3
TA 4171	Theatre Arts Capstone	3
Total Units		**18**

Drama Education Concentration (18 units)

(Program Code: TDED)

TA 4420	Touring Practicum	3
TA 3410	Theatre in the Classroom	3
Two from the following courses:		6
TA 4410	Drama in Education	
TA 4430	Puppetry	
TA 4440	Creative Movement in the Classroom	
Professional Preparation Courses: (6)		
TA 4170	Theatre Applications/Project Preparation	3
TA 4171	Theatre Arts Capstone	3
Total Units		**18**

Musical Theatre Concentration (21 units)

(Program Code: TMUS)

TA 3210	Voice and Movement	3
TA 3240	Scene Study	3
TA 4515	Singing and Dancing for Musicals	3
One course from the following:		2
TA 3713	Dance Techniques: Tap	
TA 3715	Dance Techniques: Musical Theatre	
TA 3711	Dance Techniques: Jazz	2
TA 3712	Dance Techniques: Modern	2
Professional Preparation Courses: (6)		
TA 4170	Theatre Applications/Project Preparation	3
TA 4171	Theatre Arts Capstone	3
Total Units		**21**

Theatre for Secondary Education Concentration (24 units)

(Program Code: TSEC)

Pre-Credential Courses: (6)		
TA 3210	Voice and Movement	3
TA 3602	Dramatic Analysis and Playwriting for Teachers	3
6 units chosen from: (6)		**6**
TA 3320	Scenic Design	
TA 3330	Costume Design	
TA 3340	Sound Design	
TA 3350	Lighting Design	
6 units chosen from: (6)		**6**
TA 4241	Styles of Acting	
TA 4242	Acting for the Camera	
TA 4410	Drama in Education	
TA 4420	Touring Practicum	
TA 4430	Puppetry	
TA 4510	Acting in Musical Theatre	
TA 4665	Shakespeare I	
TA 4666	Shakespeare II	
Professional Preparation Courses: (6)		
TA 4643	Directing and Devising Performance	3
TA 5170	Teaching Theatre in Secondary Schools	3
Total Units		**24**

Minor in Dance

Requirements for a minor in Dance (18 units)

Lower-division requirement (3)		
TA 2660	Introduction to Theatre	3
Upper-division requirement (3)		
Three units chosen from:		3

TA 3122	Performance Practicum	
TA 3123	Performance Practicum	
TA 3131	Technical Practicum	
TA 3132	Technical Practicum	
TA 4420	Touring Practicum	
Electives (12)		
Select courses from the list below, in consultation with a Department Advisor, to meet the goals for which the Minor is chosen. A minimum of 12 units must be taken in upper division Dance-related courses in the TA program.		12
TA 2711	Studies in Dance: Jazz	
TA 2712	Studies in Dance: Modern	
TA 2713	Studies in Dance: Tap	
TA 2714	Studies in Dance: Ballet	
TA 3711	Dance Techniques: Jazz	
TA 3712	Dance Techniques: Modern	
TA 3713	Dance Techniques: Tap	
TA 3714	Dance Techniques: Ballet	
TA 3715	Dance Techniques: Musical Theatre	
TA 3720	World Dance Traditions	
TA 3730	Dance Notation	
TA 3731	Dance History	
TA 4440	Creative Movement in the Classroom	
TA 4451	Arts in Action: Dance	
TA 4643	Directing and Devising Performance	
TA 5440	Advanced Creative Dance Methods	
Other TA courses may be included with advisor approval.		
Total Units		**18**

Minor in Film Studies

The Minor in Film Studies is ideal for students interested in learning about both film studies and digital media production. Students have the flexibility to take courses that focus on film aesthetics, history, and critical analysis of representation, and those that involve hands-on creation of moving image digital media. Each student can tailor the balance between film studies courses and digital production courses to their own interests. Requires 21 to 25 units.

Requirements for a minor in Film Studies (21-25 units)

Lower-division requirements (3-4)		**3-4**
Three or four units chosen from:		
ART 2260	Beginning Photography	
COMM 1020	Looking at Movies	
COMM 2351	Television Studio Production	
TA 1160	World Drama	
Upper-division requirements (18-21)		
Six units chosen from:		6
COMM 3331	The Development of Motion Pictures	
COMM 3335	Visual Communication	
ENG 3150	Studies in a Literary Genre ((when the topic is Film and Literature))	
Three units chosen from:		3
COMM 3332	Movies in the Digital Age	
COMM 3333	Film Analysis	
COMM 3339	Topics in Film Studies	
(when the topic is Contemporary Cinema and Society)		
Nine to twelve units chosen from the following two categories:		9-12
Film and Digital Media Theory and Criticism:		
COMM 3102	Media, Culture, and Society	
COMM 3301	Media Institutions in Context	
COMM 3334	Global Cinema	
COMM 3336	Queer Cinema	
ENG 3010	Analysis of Poetry and Drama	
FREN 3112	From Cannes to Cameroon: Francophone Cinema and Culture	
SPAN 4411	Special Topics in Spanish Language Cinema and/or Theatre	
TA 3602	Dramatic Analysis and Playwriting for Teachers	
Digital Media Production:		
ART 3710	Video Art	
COMM 3351	Introduction to Digital Video Editing	
COMM 3353	Digital Video Field Production	
COMM 3354	Fundamentals of Screenwriting	
COMM 3371	Multimedia Journalism	
DES 3600	Digital Motion Graphics	
TA 4242	Acting for the Camera	
Total Units		**21-25**

Minor in Multimedia Storytelling

Multimedia storytelling involves the combination of text, still photography, video, audio, graphics, and interactivity presented online or in another format in a nonlinear manner. The key to multimedia storytelling is using the media form to present a story in a compelling and informative way. Students pursuing this minor will learn the various aspect of this media form including storyboarding, fieldwork, editing and assembling the story. In short, students will discover the importance of merging new multimedia technology and revising culturally rich and fundamental concepts of storytelling. While telling their stories, students can also explore the issues surrounding social media, community activism, and social justice and change.

Requirements for a minor in Multimedia Storytelling (18 units)

Complete at least 18 units from three different programs in the College of Arts and Letters. A minimum of 6 units must be upper-division. Select from the following list of courses: (18)		**18**
ART 1140	Creative Technology for Artists	
ART 2240	Beginning Imaging and Illustration	
ART 2260	Beginning Photography	
ART 3710	Video Art	
COMM 2301	Newswriting and Reporting	
COMM 2351	Television Studio Production	
COMM 2391	Practicum in Multimedia Journalism: Coyote Chronicle	
COMM 2392	Practicum in Digital Audio and Radio	
COMM 2491	Practicum in Strategic Communication: Coyote PR	
COMM 3102	Media, Culture, and Society	
COMM 3305	Digital Media and Society	
COMM 3332	Movies in the Digital Age	
COMM 3335	Visual Communication	
COMM 3351	Introduction to Digital Video Editing	
COMM 3371	Multimedia Journalism	
COMM 3379	Topics in Multimedia Journalism	
DES 1100	Digital Applications Basics	
DES 1110	Fundamental Design Principles	
DES 1125	Design Thinking - Problem Solving & Critical Thinking in Visual Studies	
DES 3500	Business of Creativity	
ENG 2400	Writing in the Public Sphere	
ENG 3240	Studies in Literary Topics	
ENG 3470	Writing for Performance	
ENG 3500	Literary Movements: Aesthetics and Craft	
ENG 4630	Advanced Studies in Literary Topics	
ENG 5010	Media Performance Practicum	
ENG 5130	Advanced Creative Writing in Specialized Genres	
MUS 2266	Creating digital Media Using Personal Electronic Technology	
TA 3210	Voice and Movement	

TA 3602	Dramatic Analysis and Playwriting for Teachers	
TA 3647	Playwriting	
TA 4241	Styles of Acting	
Note: Students are able to receive credit for summer arts courses pertaining to the minor.		
Total Units		**18**

Minor in Theatre Arts

Requirements for a minor in Theatre Arts (18 units)

Lower-division requirement (3)		
TA 2660	Introduction to Theatre	3
Upper-division requirement (3)		
Three units chosen from:		3
TA 3122	Performance Practicum	
TA 3123	Performance Practicum	
TA 3131	Technical Practicum	
TA 3132	Technical Practicum	
TA 4420	Touring Practicum	
Electives (12)		
Select courses, in consultation with a Department Adviser, to meet the goals for which the Minor is chosen. A minimum of 12 units must be taken in upper division courses in TA.		12
Total Units		**18**

Department of World Languages and Literatures

University Hall, Room 314
(909) 537-5847 Department of World Languages and Literatures website (http://flan.csusb.edu)

The Department of World Languages & Literatures offers a wide variety of courses in the world languages, including American Sign Language, Arabic, French, Japanese, Korean, Mandarin Chinese, and Spanish, as well as a number of California Indian languages: Cahuilla, Luiseño, Nahuatl and Serrano. Master's degree is available in Spanish; Bachelor's degrees are available in Arabic, French, and Spanish; minors are available in Arabic, French, Japanese, and Spanish, as well as Asian Studies, Latin American Studies, and World Literatures. Certificates of Competency are available in California Indian Languages and Cultures, Arabic, Japanese Language and Culture, Criminal Justice Spanish, and Healthcare Spanish.

Our classes will teach you to understand, speak, read and write the language you are studying. Our courses promote an understanding of world civilizations and an appreciation of their literatures. This background will prepare you for jobs in a variety of professions such as international trade, librarian, interpreter, translator, foreign service officer, foreign trade specialist, diplomacy, intelligence, teaching and law enforcement.

Study of another language truly places the world in your hands: you will be prepared to meet and work with people from multiple cultures around the world and within the U.S. With the advancement of technology and the global marketplace, study of another language enhances job opportunities for everyone. Be prepared for the world of tomorrow by studying another language today.

A materials fee is required for all undergraduate lecture/seminar courses offered by World Languages and Literatures.

Arabic

The study of Arabic at CSUSB combines training in language, literature, culture, and contemporary affairs of the Arab world. It develops students' understandings, perspectives, and attitudes of Arab-speaking cultures and people. The program is carefully crafted to allow participants to enrich and broaden their academic training by drawing from disciplines related to and in demand in the Arab World (such as Anthropology, Communication, Comparative Literature, Computer Science, Criminal Justice, Health Care, History, International Business and Law, Linguistics, Political Science, Social Studies, etc.).

A major in Arabic provides a strong and competitive professional background and opens career opportunities especially when combined with an appropriate second major, a teaching credential or a specialized graduate degree.

Graduates with Arabic have found employment in education, international business, foreign trade and banking, government services, science and technology, and the tourism industry. Some careers require additional education or experience yet many positions are available for graduates regardless of academic discipline.

Fulfill the general education requirement in the Humanities (C-2) section by taking one of the following ARAB 1112 or ARAB 2900.

Fulfill the general education requirement in the Arts or Humanities (C-3) section by taking one of the following (if not previously taken) ARAB 1112 or ARAB 2900.

Fulfill the general education requirement in the Upper Division Arts and Humanities (C-4) section by taking one of the following: ARAB 3900, WLL 3920, WLL 3940, or WLL 3950.

French

The B.A. in French is designed to prepare students for the CSET exam (required for the single subject teaching credential in French in California). For information about the professional education component, admission to the teacher education program or specific requirements of the single subject teaching credential, contact the College of Education.

Japanese

The Japanese program offers courses that develop language capabilities and an appreciation and comprehension of the literature and culture of Japan. Fulfill the general education requirement in the Humanities (C-2) section by taking either one of the following courses JAPN 1112 or JAPN 2900.

Spanish

The study of Spanish at California State University, San Bernardino is based on the recognition that Hispanic cultures in the United States form an integral part of American society, and that the Spanish language, far from being "foreign," is spoken in nearly all sections of our nation alongside of English. In some areas of Southern California as well as other parts of the United States, speakers of Spanish outnumber those who speak English. Moreover, the importance of the Hispanic culture in

the United States is increasing daily as additional immigrants arrive from Latin America.

Knowledge of Spanish for those seeking employment in our region is critical for the fields of teaching, journalism, publishing, advertising, writing, business, law, law enforcement, government, health services, as well as other career opportunities. Even a basic knowledge of Spanish at the SPAN 1112 level may increase the probability of employment for these and other fields.

Fulfill the general education requirement in the Humanities (C-2) section by taking one of the following courses SPAN 1112 or SPAN 2900.

Fulfill the general education requirement in the Arts or Humanities (C-3) section by taking a course from the following (if not previously taken) SPAN 1112 or SPAN 2900.

Fulfill the general education requirement in the Upper Division Arts and Humanities (C-4) section by taking the following: SPAN 3900, WLL 3920, WLL 3940, and WLL 3950.

The minor in Spanish and the Certificates in Healthcare Spanish and Criminal Justice Spanish can be combined with each other and with any non-Spanish major, giving students additional experience in Hispanic cultures, literature, and linguistics. A double major of Spanish and another subject is also an option.

Departmental Honors

A graduating senior will be awarded departmental honors after meeting the following requirements:

1. Earned a 3.5 grade point average in the major.
2. Completed at least 30 units of the major at this university.
3. Successful completion of an oral and written honors evaluation.

Qualified students should apply for honors recognition before the deadline.

Current Faculty

Carmen Dagostino, Professor of World Languages and Literatures
M.A. 2004, University of California, Santa Barbara
Ph.D. 2001, University of Zurich, Switzerland

Dany Doueiri, Professor of World Languages and Literatures, Coordinator, Coordinator of Liberal Studies Program
B.S. 1989, California Polytechnic University
M.S. 1991, University of California, Davis
Ph.D. 1996, University of California, Los Angeles

Arturo Fernández-Gilbert, Professor of World Languages and Literatures
B.A. 1988, M.A. 1991, Universidad Complutense de Madrid
Ph.D. 2001, University of New Mexico, Albuquerque

Kareen Gervasi, Professor of World Languages and Literatures
B.A. 1992, Pontifical Catholic University of Peru
M.A. 1994, Ph.D. 2000, University of Southern California

Jesus D. Jerez-Gomez, Professor of World Languages and Literatures
B.A. 1998, Universidad de Granada, Spain
M.A. 2000, Kansas State University
Ph.D. 2006, University of California, Davis

Oraib Mango, Professor of World Languages and Literatures
B.A. 1992, University of Jordan, Amman
M.A. 2000, Ph.D. 2008, Arizona State University

Emeriti

Jacques Benzakein

Rafael E. Correa

M. Antonietta Gallegos-Ruiz

Mirta A. Gonzalez

Jorun Johns

Elizabeth Martin

Terri J. Nelson

Mireille G. Rydell

Daniel Whitaker

Eri F. Yasuhara

Undergraduate Degrees

Bachelor of Arts

- Arabic Language, Literature, and Culture (p. 218)
- Spanish (p. 219) with concentrations in:
  - Business Studies
  - Communication
  - Hispanic Studies
  - Hispanic Literature, Language, and Civilization

Graduate Degree

Master of Arts

Spanish (p. 217)

Minors

Arabic (p. 221)
French (p. 221)
Japanese (p. 222)
Spanish (p. 222)
World Literatures (p. 223)

World Literatures

The World Literatures minor offers a variety of courses taught in English about literatures from around the world. Students majoring in a world language are often interested in diversifying their knowledge of literature but learning a new language well enough to be able to read those literatures in the original version takes too long. This minor will take advantages of the GE literature in translation courses (i.e. courses taught in English about literatures from around the globe), as well as relevant courses in the English department. The minor will also be of interest to other majors such as English and Theatre Arts, in particular, and enhance their familiarity with literature from various parts of the world.

Fulfill the general education requirement in Upper Division Arts and Humanities (C-4) section by taking the following: WLL 3920, WLL 3940 or WLL 3950

Certificates

- Arabic (p. 224)
- California Indian Languages and Cultures (p. 224)
- Criminal Justice Spanish (p. 225)
- Healthcare Spanish (p. 226)
- Japanese Language and Culture (p. 225)
- Spanish for Business Management and Public Administration (p. 226)

California Indian Languages and Cultures

The California Indian Languages and Cultures certificate offers a variety of courses taught in California Indian languages and in English that inform about worldviews and cultural beliefs of local indigenous groups and center on how social practices of language use shape communication, social life, and sociocultural identity in general and in California Indian contexts.

Master of Arts in Spanish

The M.A. in Spanish focuses on the strengthening of the knowledge of Spanish teachers as well as of the intensive study of literature, linguistics, and culture for those students who will be continuing their advanced studies. The degree is also appropriate for those students seeking employment in the public or private sector in positions that serve the Latino community or require knowledge of Spanish at an advanced level.

The B.A. in Spanish + M.A. in Spanish is a possible pathway for students who wish to complete both degrees. The B.A. in Spanish + M.A. in Spanish provides an accelerated pathway to the completion of the graduate degree by allowing undergraduate students to take 4 graduate level courses (12 units) while in undergraduate status. These 12 graduate level units can double count toward both the undergraduate and graduate degree requirements. Admission to the B.A. in Spanish + M.A. in Spanish is open to students who have a cumulative undergraduate GPA of 3.0 or an average GPA of 3.0 in undergraduate coursework in Spanish completed at the time of the application. Students who have a lower GPA than 3.0 may still apply and will be evaluated based on the strength of their other supporting materials. Admission must be approved by the Department of World Languages and Literatures following the C.A.P.E Scholars Program policies and procedures (Coyote Accelerated Postbaccalaureate Education). Furthermore, students who do not maintain a 3.0 GPA upon completion of the B.A. in Spanish will not be permited to move to graduate status and will graduate with the B.A.

Students in the B.A. in Spanish + M.A. in Spanish program must choose the following concentration for the BA: Spanish – Hispanic Language, Literature and Civilization Concentration (SLLC).

Admission to the Program

In addition to the general requirements of the University, which include a baccalaureate degree from an accredited college, specific requirements for classification in the program are:

1. Completion of an undergraduate major in Spanish from an accredited institution consisting of at least 30 semester units, or 45 quarter units, or equivalent, of upper-division course work;
2. A cumulative undergraduate grade point average of at least 3.0 ("B"), and a minimum grade point average of 3.0 in all Spanish classes;
3. Good standing at the last college attended (verified by student transcripts, see below);
4. Three letters of recommendation;
5. A one- to two-page statement describing the student's professional goals in the area of Spanish;
6. Submission of official transcripts from all previous college work to the department's graduate committee;
7. Verification of oral and written proficiency in Spanish at the ACTFL level of advanced mid or higher as determined by an entrance exam given by the Department of World Languages and Literatures, CSUSB. (This requirement is waived for candidates who received their B.A. in Spanish from CSUSB within the last five years of application to the M.A. in Spanish.);
8. Students who do not meet the above criteria may be admitted as conditionally classified graduate students per approval by the Graduate Committee and may be required to take additional upper-division Spanish undergraduate courses. Students who do not possess a B.A. in Spanish (but have a degree in another discipline) may also be required to take selected upper-division undergraduate courses (earning a minimum grade of "B" (3.0) in each assigned class).

Admission to the 4+1 Option (Blended Program)

In addition to the general requirements of the university, specific requirements for being invited into the Spanish BA /MA 4+1 Option (blended program) are:

1. Invitee must be a CSUSB undergraduate student with at least a junior year academic standing with at least 60 units completed;
2. Invitee must apply before the completion of 90-105 semester units;
3. Invitee must have completed at least three courses from the Hispanic Language, Literature and Civilization (SLLC) concentration within the Bachelor of Arts in Spanish program with a GPA of 3.0 or higher across all three courses;
4. Invitee's overall CSUSB grade point average (GPA) should be 3.0 or higher or an average GPA of 3.0 in undergraduate coursework in Spanish. Students who have a lower GPA than 3.0 may still apply and will be evaluated based on the strength of their other supporting materials.
5. Invitee should submit two letters of recommendation supporting their application. Letters should be from people able to make relevant comments on the student's ability to succeed in an accelerated BA/MA blended program.
6. Invitee should submit a one-page personal statement giving a sense of who the student is and their particular interests and goals in pursuing a graduate degree.
7. Invitee should submit a 5-10 page writing sample in Spanish that showcases the student's ability to think critically and articulate their ideas in writing.

Students who accept invitation into the Spanish BA/MA 4+1 program shall be designated as CAPE undergraduates until the BA is conferred. Then they will move to CAPE graduate status.

Advancement to Candidacy

To be advanced to candidacy, the student must have:

1. Achieved classified status;
2. Completion of the writing requirement for graduate candidacy through completion of a program-specific writing intensive mandatory course,SPAN 6606, with a grade no lower than B;
3. Completed all course work taken before advancement to candidacy with a minimum grade point average of 3.0 ("B"). Completed all course work with no more than one course with a grade of "C" or lower. If a second such grade is earned, the student will be dismissed from the program, but may petition the graduate admission committee for readmission. After reviewing the petition, the committee may allow readmission under such conditions as it deems appropriate. A third grade of "C" or lower will result in permanent dismissal from the program with no recourse to petition;
4. Submission of appropriate documentation verifying knowledge of a language other than English or Spanish at either the 1112 or second semester (or equivalent) level.

Requirements for Graduation

1. Advancement to candidacy;
2. Successful completion of 30-semester units of acceptable graduate work with at least 23 units completed at CSUSB. All coursework taken at other institutions must be approved by the Graduate Committee;
3. An overall GPA of at least 3.0 ("B") in all graduate-level course work;
4. Successful completion of Culminating Experience: SPAN 6698;
5. The graduation writing requirement is met upon the successful completion of SPAN 6606.

Degree Requirements (30 units)

Hispanic Literature, Linguistics, and Civilization (Program Code: SPNM)

Designed for students who wish to pursue an in-depth study of Spanish, Spanish American, and Latino literatures along with Spanish linguistics, and to prepare students for further advanced study.

Core Courses (3)		
SPAN 6606	Research Methods	3
Students may only count four 5000-level courses towards the M.A. (at least six courses must be at the 6000-level)		
Linguistics Electives (9)		**9**
Nine units (three of the following courses):		
SPAN 5505	Seminar in Hispanic Linguistics	
SPAN 5507	Seminar in Special Interdisciplinary Topics in Spanish Literature, Linguistics, or Culture	
SPAN 6608	History of the Spanish Language	
SPAN 6615	Second Language Acquisition in Spanish	
SPAN 6620	General Spanish Linguistics	
SPAN 6655	Spanish Applied Linguistics	
SPAN 6656	Spanish Semantics and Pragmatics	
Literature Electives (18)		**18**
Eighteen units (six of the following courses) - students must take at least one course in Peninsular literature and one course in Spanish American literature:		
SPAN 5501	Seminar in Peninsular Literature, Culture, Theater and Film	
SPAN 5503	Seminar in Spanish American Literature, Culture, Theater and Film	
SPAN 5507	Seminar in Special Interdisciplinary Topics in Spanish Literature, Linguistics, or Culture	
SPAN 6625	Spanish Peninsular Literature	
SPAN 6630	Spanish American Literature	
SPAN 6650	Spanish Peninsular Literature and Culture	
SPAN 6651	Spanish American Literature and Culture	
SPAN 6652	Modern Spanish American Literature	
SPAN 6653	Contemporary Chicanx/Latinx Literature in Spanish	
SPAN 6654	Modern Spanish Peninsular Literature	
Culminating Experience (0)		**0**
Total Units		**30**

Culminating Experience (0 units)

Culminating Experience (0)		
SPAN 6698	Comprehensive Examination	0
Total Units		**0**

Bachelor of Arts in Arabic Language, Literature, and Culture

Degree Requirements (43 units)

Total units required for graduation: 120

(Program Code: ARAB)

1. No more than 18 units in Arabic can be transferred from other institutions.
2. Students who have completed high school in an Arab country may get credit for up to 14 units only.
3. Students who have completed Arabic as a second language in High School must take a placement exam. Highest placement is second year Arabic.

Lower-division requirements (9)		
ARAB 1111	Beginning Arabic 1	3
ARAB 1112	Beginning Arabic 2	3
ARAB 2900	Arabic Literature in Translation	3
Intermediate Language Courses (8)		
Eight units chosen from:		8
ARAB 2111	Arabic Communication	
ARAB 2112	Arabic Literature and societies	
ARAB 2113	Arabic Media	
ARAB 2114	Arabic for Professional Communication	
Upper-division requirements (8)		
ARAB 3150	Arabic Conversation Activity	1
ARAB 3160	Writing Explorations	1
ARAB 3900	Female Voices in Arab American Literature	3

ARAB 4900	Voices and Visions from the Arab World	3
Electives (18)		**18**
Select 18 units from the list below		
ANTH 3704R	Anthropology of the Middle East	
ARAB 3111	Arab Culture, Media and Identity	
ARAB 3112	Explorations of Arabic Literary Texts	
ARAB 3113	Spoken Arabic	
ARAB 3114	Introduction to Arabic Linguistics	
ARAB 3115	Introduction to Arabic Translation	
ARAB 3116	Explorations in Arabic Media	
ARAB 3117	Advanced Arabic for Professional Communication	
ARAB 4113	Arabic Pedagogy	
ARAB 5900	Global Perspectives and Study Abroad	
CAL 3750	Islam in Today's World	
COMM 5303	Muslim Women in Media and Society	
COMM 5319	Advanced Topics in Media Studies	
GEOG 3900	Emerging Topics in Human Geography	
HIST 3360	Ancient Egyptian Archaeology	
HIST 3380	Ancient Egyptian Art	
HIST 3830	Classical Islamic Civilization	
HIST 3840	Modern Middle East	
HIST 4520	Ancient Egyptian History, Origins to c. 1700 B.C.E.	
HIST 4530	Ancient Egyptian History, c. 1700 B.C.E. to 1000 B.C.E	
HIST 4540	Ancient Egypt, c. 1000 B.C.E. to 495 C.E.	
HIST 4850	Arab-Israeli Conflict	
HIST 4870	Topics in Modern Middle Eastern History	
HIST 4950	Politics of Oil	
PHIL 3230	Classical Arabic Philosophy	
WLL 3120	Pedagogies for Foreign Language Teaching	
WLL 3920	Great Works, Revolutionary Ideas, and Important Discoveries	
WLL 3940	Mediterranean Languages and Identities	
Total Units		**43**

Minor/Certificate in Islamic and Middle Eastern Studies

Students receiving a minor, certificate or B.A. in Arabic Language, Literature and Culture may also be able to earn a minor or certificate in Islamic and Middle Eastern studies.

Bachelor of Arts in Spanish

The B.A. in Spanish coursework includes the following areas: Culture, Linguistics, Peninsular Literature, and Spanish American Literature, some with interdisciplinary approaches. These areas serve students as subject matter preparation for the single-subject teaching credential, bilingual teaching, as well as students with career plans in journalism, advertising, professional writing, law, criminal justice, business, public services, healthcare-related fields, national security, diplomatic services, translation services, publishing, entertainment, and others.

Requirements (48-57 units)

Total units required for graduation: 120

Requirements for the B.A. in Spanish

Core Requirements (37)		
Eight units chosen from:		8
SPAN 2111	Intermediate Spanish 1st Semester	
SPAN 2112	Intermediate Spanish 2nd. Semester	
SPAN 2151	Accelerated Intermediate Spanish	
SPAN 2251	Intermediate Healthcare Spanish I	
SPAN 2252	Intermediate Healthcare Spanish II	
SPAN 2261	Intermediate Criminal Justice Spanish I	
SPAN 2262	Intermediate Criminal Justice Spanish II	
Or proficiency at the intermediate level equal to that of SPAN 2112 or SPAN 2252.		
SPAN 3301	Advanced Spanish Language and Composition	3
SPAN 3302	Advanced Spanish Language and Composition Writing Lab	1
SPAN 3303	Introduction to Literature in Spanish Speaking World	3
SPAN 3305	Applied Spanish Grammar	3
SPAN 4401	Spanish for the Professions	3
Three units chosen in and Film	Seminar in Literature, Culture, Theater	3
SPAN 5501	Seminar in Peninsular Literature, Culture, Theater and Film (OR)	
SPAN 5503	Seminar in Spanish American Literature, Culture, Theater and Film	
SPAN 5507	Seminar in Special Interdisciplinary Topics in Spanish Literature, Linguistics, or Culture	
Three units chosen in	Seminar in Linguistics	3
SPAN 5505	Seminar in Hispanic Linguistics	
SPAN 5507	Seminar in Special Interdisciplinary Topics in Spanish Literature, Linguistics, or Culture	
One unit chosen in Portfolio		1
SPAN 5502	Peninsular Literature, Culture, Theater, and Film: Portfolio (One unit chosen in Portfolio)	
SPAN 5504	Spanish American Literature, Culture, Theater, and Film: Portfolio	
SPAN 5506	Hispanic Linguistics: Portfolio	
Any Spanish or WLL Upper Division Course or Spanish Faculty approved course		3
SPAN 3900	Voices & Visions from the Hispanic World	3
or WLL 3920	Great Works, Revolutionary Ideas, and Important Discoveries	
Three units chosen from the following:		3

WLL 3350	Language Acquisition and Early Field Experience for Future Teachers	
WLL 3940	Mediterranean Languages and Identities	
WLL 3950	Languages & Cultures	
WLL 5563	International Experience	
Concentration (11-20)		**11-20**
Students must complete all of the requirements from one of the concentrations listed below.		
Total Units		**48-57**

Concentrations (11-20 units)

Hispanic Language, Literature and Civilization Concentration (20 units)

(Program Code: SLLC)

Requirements (12)		
SPAN 3307	Cultures of Spain	3
SPAN 3309	Cultures of Spanish America	3
SPAN 4403	Spanish Dialectology	3
WLL 3120	Pedagogies for Foreign Language Teaching	3
Choose two activities from the following (2)		**2**
SPAN 3308	Cultures of Spain Activity	
SPAN 3310	Cultures of Spanish America Activity	
SPAN 4402	Spanish for the Professions Activity	
SPAN 4404	Spanish Dialectology Activity	
SPAN 4412	Special Topics in Spanish Language Cinema and/or Theatre Activity	
Choose two of the following (6)		**6**
SPAN 4407	Special Topics in Peninsular Literature	
SPAN 4409	Special Topics in Spanish American Literature	
SPAN 4411	Special Topics in Spanish Language Cinema and/or Theatre	
Total Units		**20**

Communication Studies Concentration (17 units)

(Program Code: SPCO)

One culture class chosen from the following		3
SPAN 3307	Cultures of Spain	
SPAN 3309	Cultures of Spanish America	
Two activities chosen from the following		2
SPAN 3308	Cultures of Spain Activity	
SPAN 3310	Cultures of Spanish America Activity	
SPAN 4402	Spanish for the Professions Activity	
SPAN 4404	Spanish Dialectology Activity	
Four courses chosen from the following		12
Relational and Organizational Communication		
COMM 2251	Fundamentals of Interpersonal Communication	
COMM 3212	Persuasion	
COMM 4202	Relational Communication	
COMM 4203	Organizational Communication	
COMM 4211	Communication and Gender	
COMM 4222	Communication and Conflict	
Media Studies		
COMM 2351	Television Studio Production	
COMM 3319	Topics in Media Studies	
COMM 3331	The Development of Motion Pictures	
COMM 3332	Movies in the Digital Age	
COMM 3333	Film Analysis	
COMM 3334	Global Cinema	
COMM 3336	Queer Cinema	
COMM 3351	Introduction to Digital Video Editing	
COMM 3359	Topics in Digital Production	
COMM 3371	Multimedia Journalism	
COMM 3379	Topics in Multimedia Journalism	
COMM 4301	Gender, Race, and Class in Media	
COMM 4302	Latinx, Media, and Cultures	
COMM 4303	Global Communication	
COMM 4304	Media Effects	
COMM 4305	Advertising as Social Communication	
Strategic Communication		
COMM 3211	Business and Professional Communication	
COMM 3401	Introduction to Strategic Communication	
COMM 3403	Business Literacy for Strategic Communication	
COMM 3419	Topics in Strategic Communication	
Total Units		**17**

Business Studies Concentration (17 units)

(Program Code: SPNB)

One culture class chosen from the following		3
SPAN 3307	Cultures of Spain	
SPAN 3309	Cultures of Spanish America	
Two activities chosen from the following		2
SPAN 3308	Cultures of Spain Activity	
SPAN 3310	Cultures of Spanish America Activity	
SPAN 4402	Spanish for the Professions Activity	
SPAN 4404	Spanish Dialectology Activity	
Four courses chosen from the following		12
ACCT 2110	Introductory Accounting I	
ADMN 1001	Leadership for Global Challenges: Exploring the Entrepreneurial Mindset	
ADMN 2100	Applied Business Statistics	
MKTG 3050	Marketing Principles	
MKTG 4200	Marketing Communications	
MGMT 2300	Legal Environment of Organizations	
MGMT 3300	Legal Environment of Business	
MGMT 4050	Managing Across Borders	
FIN 3001	Finance I	

FIN 4330	International Finance	
ECON 3101	Political Economy of Southern California	
ECON 3103	Environmental Economics	
ECON 3318	International Economics	
ECON 3780	Multinational Corporations	
ENTR 3000	Entrepreneurship and Innovation	
PA 3050	Organizations in Multicultural and Diverse Societies	
PA 3150	Society, Business, & Global Governance	
SCM 3040	Principles of Supply Chain Management	
SCM 4450	International Logistics	
Total Units		**17**

Hispanic Studies Concentration (11 units)

(Program Code: SPHS)

SPAN 4403	Spanish Dialectology	3
Three units from the following		3
SPAN 3307	Cultures of Spain	
SPAN 3309	Cultures of Spanish America	
Two units from the following		2
SPAN 3308	Cultures of Spain Activity	
SPAN 3310	Cultures of Spanish America Activity	
SPAN 4402	Spanish for the Professions Activity	
SPAN 4404	Spanish Dialectology Activity	
Three units from the following		3
SPAN 4407	Special Topics in Peninsular Literature	
SPAN 4409	Special Topics in Spanish American Literature	
SPAN 4411	Special Topics in Spanish Language Cinema and/or Theatre	
Total Units		**11**

Minor in Arabic

The minor in Arabic includes coursework in Arabic language, literature, and culture. This minor program can prepare students for careers in teaching, communication/media studies, public administration, national security, diplomatic service, translation, and other fields.

Minor Requirements (18 units)

Entering students with previous training in Arabic or those who are native speakers should contact the Department of World Languages and Literatures or the Arabic program coordinator for information about placement and credit by examination.

Lower-division requirements (6)		
ARAB 1111	Beginning Arabic 1	3
ARAB 1112	Beginning Arabic 2	3
Electives (12)		
Additional twelve units chosen from:		12
ARAB 2111	Arabic Communication	
ARAB 2112	Arabic Literature and societies	
ARAB 2113	Arabic Media	
ARAB 2114	Arabic for Professional Communication	
ARAB 2900	Arabic Literature in Translation	
ARAB 3111	Arab Culture, Media and Identity	
ARAB 3112	Explorations of Arabic Literary Texts	
ARAB 3113	Spoken Arabic	
ARAB 3114	Introduction to Arabic Linguistics	
ARAB 3115	Introduction to Arabic Translation	
ARAB 3116	Explorations in Arabic Media	
ARAB 3117	Advanced Arabic for Professional Communication	
ARAB 3150	Arabic Conversation Activity	
ARAB 3160	Writing Explorations	
ARAB 3900	Female Voices in Arab American Literature	
ARAB 4900	Voices and Visions from the Arab World	
ARAB 5900	Global Perspectives and Study Abroad	
Total Units		**18**

Minor in French

The French minor provides students with an opportunity to improve their proficiency in French while also studying Francophone literatures and cultures. Students may have to take some of the French language courses through CSU Online or CSU IP. Students with previous training in French or those who are native speakers should contact the Department of World Languages and Literatures for information about placement and credit by examination.

Minor Requirements (21 units)

Lower-Division (21)		
FREN 1111	Beginning French 1	4
FREN 1112	Beginning French 2	3
Eight units chosen from the following:		8
FREN 2111	Introduction to the Francophone World	
FREN 2112	Introduction to French Media	
FREN 2113	Introduction to Reading & Interpretation	
FREN 2114	Introduction to French Culture	
Choose six units from the following:		6
FREN 2900	French Literature and Film in English	
FREN 3111	Approaches to French Literature	
FREN 3112	From Cannes to Cameroon: Francophone Cinema and Culture	
FREN 3113	Geographies of Identity: Francophone Cultures in Context	
FREN 3114	Paris: Cultural and Historical Capital	
FREN 3150	French Conversation Lab	
FREN 3900	Voices & Visions from the French-Speaking World	
WLL 3120	Pedagogies for Foreign Language Teaching	
WLL 3950	Languages & Cultures	
Total Units		**21**

Students must earn a grade of "C" (2.0) or better in all courses required to fulfill a minor in French.

Minor in Japanese

Requirements for a minor in Japanese (20 units)

Proficiency in Japanese equal to JAPN 1112 or equivalent.

Note: Entering students with previous training in Japanese, or those who are heritage/native speakers, should contact the Department of World Languages and Literatures or the Japanese program coordinator for information about placement and credit by examination. Students with no prior exposure to Japanese need to take JAPN 1111 and JAPN 1112 which will not count toward the 20-unit requirement for the minor.

Lower-division Core (8)		
JAPN 2111	Second Year College Japanese A	4
JAPN 2112	Second Year College Japanese B	4
Upper-division Core (6)		
JAPN 3111	Third Year College Japanese A	3
JAPN 3112	Third Year College Japanese B	3
Electives (6)		
3 units chosen from:		3
JAPN 2100	Japanese Calligraphy	
JAPN 3100	Analysis of Japanese Culture through Film	
3 units chosen from:		3
JAPN 2204	Conversation in Japanese	
JAPN 2900	Japanese Literature in English	
JAPN 3204	Advanced Conversation in Japanese	
JAPN 3900	Voices & Visions from the World of Japanese Anime and Manga	
May include no more than 3 units chosen from:		
JAPN 3701	Study Abroad in Japan	
JAPN 3702	Study Abroad in Japan	
JAPN 3703	Study Abroad in Japan	
WLL 3891	Community Service Project	
WLL 3892	Community Service Project	
WLL 3893	Community Service Project	
Total Units		**20**

Minor in Spanish

The Minor in Spanish program is designed to increase proficiency in Spanish through coursework on the Spanish language, Hispanic literature/culture, and internship/study abroad opportunities.

Requirements for a minor in Spanish (20 units)

Proficiency in Spanish equal to SPAN 1112

Note: Entering students with previous training in Spanish, and those who are heritage/native speakers, should contact the Department of World Languages and Literatures for information about advanced placement and credit by examination.

Lower Division requirements (8)		
Eight units chosen from:		8
SPAN 2111	Intermediate Spanish 1st Semester	
SPAN 2112	Intermediate Spanish 2nd. Semester	
SPAN 2151	Accelerated Intermediate Spanish	
SPAN 2204	Conversation	
SPAN 2251	Intermediate Healthcare Spanish I	
SPAN 2252	Intermediate Healthcare Spanish II	
SPAN 2261	Intermediate Criminal Justice Spanish I	
SPAN 2262	Intermediate Criminal Justice Spanish II	
Upper division requirements (12)		
Twelve units chosen from:		12
SPAN 3051	Culture, Health, and Food in Latin America	
SPAN 3061	Criminal Justice and Cultures of Spain and Latin America	
SPAN 3301	Advanced Spanish Language and Composition	
SPAN 3302	Advanced Spanish Language and Composition Writing Lab	
SPAN 3303	Introduction to Literature in Spanish Speaking World	
SPAN 3305	Applied Spanish Grammar	
SPAN 3307	Cultures of Spain	
SPAN 3308	Cultures of Spain Activity	
SPAN 3309	Cultures of Spanish America	
SPAN 3310	Cultures of Spanish America Activity	
SPAN 3900	Voices & Visions from the Hispanic World	
SPAN 4401	Spanish for the Professions	
SPAN 4402	Spanish for the Professions Activity	
SPAN 4403	Spanish Dialectology	
SPAN 4404	Spanish Dialectology Activity	
SPAN 4407	Special Topics in Peninsular Literature	
SPAN 4409	Special Topics in Spanish American Literature	
SPAN 4411	Special Topics in Spanish Language Cinema and/or Theatre	
SPAN 4412	Special Topics in Spanish Language Cinema and/or Theatre Activity	
SPAN 4441	Internship Project	
SPAN 4442	Internship Project	
SPAN 4443	Internship Project	
SPAN 4444	Internship Project	
SPAN 5555	Study Abroad and International Experience	
SPAN 5556	Study Abroad and International Experience	
SPAN 5557	Study Abroad and International Experience	
Total Units		**20**

Minor in World Literatures

Requirements for a minor in World Literatures (18 units)

Students are required to take five electives. No more than one course may come from any one of the following categories. At least **one** of the courses must be numbered 3000 or higher and at least **two** must have the Writing Intensive (WI) designation:

Core (Required) (3)		
ENG 3000	Studies in Global Literatures	3
Electives (15)		
No more than one course may come from any of the following categories. At least one of the courses must be numbered 3000 or higher and at least two must have the Writing Intensive (WI) designation.		15
Arabic		
ARAB 2900	Arabic Literature in Translation	
ARAB 3900	Female Voices in Arab American Literature (WI)	
Chinese		
CHIN 2900	Chinese Literature in Translation	
English		
ENG 1200	Multi-Ethnic American Literature	
ENG 3330	Myth and Epic	
ENG 3390	African American Literature	
ENG 3140	Native American and Indigenous Literatures	
ENG 3230	Chicana/o Literature	
French		
FREN 2900	French Literature in English	
FREN 3900	Voices & Visions from the Francophone World (WI)	
Japanese		
JAPN 2900	Japanese Literature in English	
JAPN 3900	Voices & Visions from the World of Japanese Anime and Manga (WI)	
Korean		
KOR 2900	Korean Literature in English	
Spanish		
SPAN 2900	Spanish Literature and Film in English	
SPAN 3900	Voices & Visions from the Hispanic World (WI)	
World Languages & Literatures		
WLL 3920	Great Works, Revolutionary Ideas, and Important Discoveries (WI)	
WLL 3940	Mediterranean Languages and Identities (WI)	
WLL 3950	Languages & Cultures	
Theatre Arts		
TA 1160	World Drama	
Total Units		**18**

Certificate in Arabic

The minor in Arabic includes coursework in Arabic language, literature, and culture. This minor program can prepare students for careers in teaching, communication/media studies, public administration, national security, diplomatic service, translation, and other fields.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (18 units)

Entering students with previous training in Arabic or those who are native speakers should contact the Department of World Languages and Literatures or the Arabic program coordinator for information about placement and credit by examination.

Lower-division requirements (6)		
ARAB 1111	Beginning Arabic 1	3
ARAB 1112	Beginning Arabic 2	3
Electives (12)		
Twelve units chosen from		12
ARAB 2111	Arabic Communication	
ARAB 2112	Arabic Literature and societies	
ARAB 2113	Arabic Media	
ARAB 2114	Arabic for Professional Communication	
ARAB 2900	Arabic Literature in Translation	
ARAB 3111	Arab Culture, Media and Identity	
ARAB 3112	Explorations of Arabic Literary Texts	
ARAB 3113	Spoken Arabic	
ARAB 3114	Introduction to Arabic Linguistics	
ARAB 3115	Introduction to Arabic Translation	
ARAB 3116	Explorations in Arabic Media	
ARAB 3117	Advanced Arabic for Professional Communication	
ARAB 3150	Arabic Conversation Activity	
ARAB 3160	Writing Explorations	
ARAB 3900	Female Voices in Arab American Literature	
ARAB 4900	Voices and Visions from the Arab World	
ARAB 5900	Global Perspectives and Study Abroad	
Total Units		**18**

Certificate in California Indian Languages and Cultures

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Admission to the Program

1. Students must meet general university admission requirements.
2. Students in all majors are eligible to participate in this program.

Certificate Requirements (18 units)

Three units chosen from:		3
SERR 1112	Language Study II: Serrano	
LUIS 1112	Language Study II: Luiseño	
CAHU 1112	Language Study II: Cahuilla	
Three units chosen from:		3
SERR 2111	Language Study III: Serrano	
SERR 2112	Language Study IV: Serrano	
LUIS 2111	Language Study III: Luiseño	
LUIS 2112	Language Study IV: Luiseño	
CAHU 2111	Language Study III: Cahuilla	
CAHU 2112	Language Study IV: Cahuilla	
Three units chosen from:		3
ANTH 3601	Case Studies in Linguistic Anthropology	
ANTH 4601L	Community Engaged Research Methods	
ANTH 4603L	Museum Research and Exhibit Development	
HIST 5750	Internship in History	
CAL 5951	Independent Study in the Humanities	
CAL 5952	Independent Study in the Humanities	
CAL 5953	Independent Study in the Humanities	
CAL 5954	Independent Study in the Humanities	
WLL 2111	Language Study III: Cupeño	
WLL 5553	Independent Study	
Electives (9)		
Any of the required courses above may also count as elective if not taken above		
Nine units chosen from:		9
ANTH 3023	Native North American Art	

WLL 3120	Pedagogies for Foreign Language Teaching	
WLL 3350	Language Acquisition and Early Field Experience for Future Teachers	
WLL 3950	Languages & Cultures	
ANTH 3706R	Indians of North America	
ANTH 3707R	Indians of the Southwest	
ANTH 3606	Indigenous Politics	
ANTH 3910	Selected Topics in Anthropology	
ENG 3320	Second Language Acquisition	
ENG 3140	Native American and Indigenous Literatures	
ENG 3190	Studies in Literary Diversity	
ENG 5270	Studies in Language and Linguistics	
COMM 2201	Intercultural Communication	
COMM 3102	Media, Culture, and Society	
Total Units		**18**

* Special Topics Courses require approval from the Certificate Coordinator Prof. Carmen Jany. Contact her at cjany@csusb.edu or at UH-314.

Certificate in Criminal Justice Spanish

The Certificate Program in Criminal Justice Spanish focuses on specialized competency#based and profession#oriented language and culture instruction for students in criminal justice and related fields to meet the needs for expertise and competence in the Spanish language and cultures.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (18 units)

Admission to the Program

1. Students must meet general university admission requirements.
2. Students in all majors are eligible to participate in this program.

Required Courses

SPAN 2261	Intermediate Criminal Justice Spanish I	4
SPAN 2262	Intermediate Criminal Justice Spanish II	4
SPAN 3061	Criminal Justice and Cultures of Spain and Latin America	3
SPAN 4401	Spanish for the Professions (Needs to be Criminal Justice)	3
SPAN 4402	Spanish for the Professions Activity (Needs to be Criminal Justice)	1
Service Learning - three units chosen from: (3)		**3**
SPAN 4443	Internship Project	
SPAN 5557	Study Abroad and International Experience (OR equivalent service-learning course)	
Total Units		**18**

Certificate in Japanese Language and Culture

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (17 units)

Proficiency in Japanese equal to JAPN 1111 or equivalent.

Note: Entering students with previous training in Japanese or those who are heritage/native speakers should contact the Department of World Languages and Literatures for information about placement and credit by examination. Students with no prior exposure to Japanese must complete JAPN 1111 which will not count toward the 17-unit requirement for the certificate.

Lower-Division Core (11)		
JAPN 1112	Beginning Japanese II	3
JAPN 2111	Second Year College Japanese A	4
JAPN 2112	Second Year College Japanese B	4
Electives (6)		
6 units chosen from:		6
JAPN 2100	Japanese Calligraphy	
JAPN 2204	Conversation in Japanese	
JAPN 2900	Japanese Literature in English	
JAPN 3100	Analysis of Japanese Culture through Film	
JAPN 3111	Third Year College Japanese A	
JAPN 3112	Third Year College Japanese B	
JAPN 3204	Advanced Conversation in Japanese	

JAPN 3900	Voices & Visions from the World of Japanese Anime and Manga	
May substitute no more than 3 units from the list below:		
JAPN 3701	Study Abroad in Japan	
JAPN 3702	Study Abroad in Japan	
JAPN 3703	Study Abroad in Japan	
WLL 3891	Community Service Project	
WLL 3892	Community Service Project	
WLL 3893	Community Service Project	
Total Units		**17**

Certificate in Healthcare Spanish

The Healthcare Spanish Certificate Program has 18 units, of which 8 units are Lower Division and 7 units are Upper Division, in addition to 3 units of service-learning.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (18 Units)

Certificate Requirements (15)		
SPAN 2251	Intermediate Healthcare Spanish I	4
SPAN 2252	Intermediate Healthcare Spanish II	4
SPAN 3051	Culture, Health, and Food in Latin America	3
SPAN 4401	Spanish for the Professions	3
SPAN 4402	Spanish for the Professions Activity	1
Service Learning (3)		
Three units chosen from:		3
SPAN 5557	Study Abroad and International Experience	
SW 4011, SW 4012 or any 5000-level internship related to health care		
SPAN 4443	Internship Project	
Total Units		**18**

Certificate in Spanish for Business Management & Public Administration

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

The Certificate in Spanish for Business Management and Public Administration has 18 units, of which 8 units are Lower Division and 7 units are Upper Division, in addition to 3 units of service-learning.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Admission to the Program

1. Meet general university admission requirements.
2. Students in all majors are eligible to participate.

Required Courses

Spanish Lower Division		
4 units chosen from:		4
SPAN 2111	Intermediate Spanish 1st Semester	
SPAN 2251	Intermediate Healthcare Spanish I	
SPAN 2261	Intermediate Criminal Justice Spanish I	
4 units chosen from:		4
SPAN 2112	Intermediate Spanish 2nd. Semester	
SPAN 2252	Intermediate Healthcare Spanish II	
SPAN 2262	Intermediate Criminal Justice Spanish II	
Spanish Upper Division		
SPAN 4401	Spanish for the Professions	3

SPAN 4402	Spanish for the Professions Activity	1
Business Management and Public Administration		
3 units chosen from:		3
PA 3050	Organizations in Multicultural and Diverse Societies	
PA 3150	Society, Business, & Global Governance	
ADMN 1001	Leadership for Global Challenges: Exploring the Entrepreneurial Mindset	
ENTR 3000	Entrepreneurship and Innovation	
MGMT 3300	Legal Environment of Business	
HRM 4580	Employment Law	
International Experience/Service-learning		
3 units chosen from:		3
SPAN 4443	Internship Project	
SPAN 5557	Study Abroad and International Experience	
Total Units		**18**

Liberal Studies Program

James R. Watson and Judy Rodriguez Watson College of Education Building, Rm-114
(909) 537-5857 Liberal Studies website

Coordinator: Kelly Dortch

Associate Coordinator: Dany Doueiri

Peer Ambassadors for Liberal Studies (PALS) Studio
James R. Watson and Judy Rodriguez Watson College of Education Building, Rm-114
(909) 537-5482

The Bachelor of Arts in Liberal Studies (p. 227) is a multidisciplinary degree program designed for students whose needs or interests require a more broadly based liberal arts curriculum than is possible through existing disciplines.

Most students pursuing this major intend to become teachers in K-8 classrooms. To facilitate achieving this goal, the Liberal Studies program provides the subject matter content that is aligned with the California Commission on Teacher Credentialing (CCTC) guidelines.

The Integrated concentration leads to both a Bachelor of Arts degree in Liberal Studies and a Multiple Subject Credential. It is designed for students who plan to become elementary, K-8, school teachers and who want to save time and money by working on the credential along with their B.A. degree. (Credential).

The General concentration prepares students to enter the Multiple Subject (elementary school) teaching credential program, generally during post-graduate study in the James R. Watson and Judy Rodriguez Watson College of Education. This option is best for those seeking credentials other than the Multiple Subject Credential, such as special education or for students who wish to earn a master's degree along with their credential. (Pre-Credential).

The Spanish Studies concentration prepares students to enter the Multiple Subject (elementary school) teaching credential program, generally during post-graduate study in the James R. Watson and Judy Rodriguez Watson College of Education. This concentration is especially designed for those students interested in pursuing the added Bilingual Authorization as part of a post-graduate credential program in preparation to teach in a bilingual Spanish classroom setting. (Pre-Credential).

The Bachelor of Arts in Liberal Arts (p. 147) represents a broad, interdisciplinary approach to earning a higher education degree. The B.A. in Liberal Arts is designed for students, who might not necessarily desire a career in education but who still wish to obtain a multidisciplinary degree that is transferable to many of the needs of the twenty-first century. (Non-Credential)

Departmental Honors

The Liberal Studies/Liberal Arts student will be eligible for departmental honors upon verification of the following three requirements:

1. Earned a 3.5 or greater grade point average in the major.
2. Completed at least 30 units of Liberal Studies/Liberal Arts courses at this university.
3. Successfully completed the oral and written honors evaluations as determined by the Liberal Studies Coordinator.

Undergraduate Degrees

Bachelor of Arts

Liberal Arts (p. 147)
Liberal Studies (p. 227) with concentrations in:

- General
- Integrated
- Spanish Studies

Bachelor of Arts in Liberal Studies

The BA in Liberal Studies major is designed to prepare students for Multiple-Subject Teaching Credential Programs in California. It has three concentrations: Precredential-General (12 units); Precredential-Spanish Studies (12 units); and Credential-Integrated (33 units). Students who are not planning for a teaching career but are interested in a liberal arts education, please consult the BA in Liberal Arts degree.

Unless otherwise specified, grades in lower division courses (2999 and below) must be a "C-" or better; grades in upper division courses (3000 and above) must be a "C" or better.

All graduating Liberal Studies students must maintain a minimum grade point average (GPA) of 2.0 ("C"). Students who plan to seek their Multiple Subject Teaching Credential at CSUSB must achieve a minimum GPA of 2.67. Other institutions offering Multiple Subject Teaching Credentials may have different GPA requirements, usually between 2.5 to 3.0.

BA in Liberal Studies (120+ units) consists of GE (43 units), American Institutions Requirement (3 units), and the major, which is divided into the core (66-72) and concentrations (12-33).

13 units in the core will also count for GE and American Institutions requirements.

Students should pay special attention to the following classes that satisfy the requirements of both GE and the core of the major. Be sure to take them in their respective GE categories.

B1/5A and B3/5C: GEOL 1090

B2/5B: BIOL 1000 or BIOL 1010

D1/4 and American Institutions: HIST 1460, HIST 2000 & HIST 2010, or PSCI 2030

Advising for the Liberal Studies major is offered by the Liberal Studies Office https://www.csusb.edu/liberal-studies (https://www.csusb.edu/liberal-studies/).

Degree Requirements (78-105 units)

Total units required for graduation: 120

The core of the program has four areas: Arts and Humanities, Natural Sciences and Mathematics, Social Sciences and Child Development, and Program Requirements.

These areas are designed to provide students with coursework that is both foundational and focused. The first three areas – Arts and Humanities, Natural Sciences and Mathematics, Social Sciences and Child Development – enable students to build a broad repertoire of knowledge in the arts, humanities, natural and social sciences, technology, and civics and government. These areas of knowledge ensure a well-rounded education for students; they also provide the content of what they will teach in California's K-8 schools. The program requirements include courses on learning assessment and metaknowledge of their studies and chosen careers.

Area 1: Arts & Humanities (15)

Choose one of the following:		3
ENG 3010	Analysis of Poetry and Drama	
ENG 3030	Analysis of Fiction and Nonfiction Prose	
PHIL 3008	Philosophy in World Literature	
TA 3602	Dramatic Analysis and Playwriting for Teachers	
ENG 3110	Introduction to Linguistics	3
Choose one of the following:		3
ENG 3200	Literature for Children and Young Adults	
PHIL 3006	Philosophy in Children's Literature	
PHIL 3007	Philosophy in Young Adult Literature	
Choose one of the following:		3
AAED 2431	Art in the Classroom	
AAED 3431	Art and Human Development	
AAED 3432	Critical Theories in Art Education	
ART 3000	Art and Activism	
ART 4450	Arts in Action: Visual Art	
COMM 3305	Digital Media and Society	
COMM 3332	Movies in the Digital Age	
COMM 3333	Film Analysis	
COMM 3334	Global Cinema	
COMM 3335	Visual Communication	
Choose one of the following:		3
MUS 2266	Creating Digital Media Using Personal Electronic Technology	
MUS 3705	Music for Elementary Classroom Teachers	
MUS 4100	Music in the Elementary Schools	
MUS 4455	Arts in Action: Music	
TA 2640	Acting for All Majors	
TA 3410	Theatre in the Classroom	
TA 4410	Drama in Education	
TA 4420	Touring Practicum	
TA 4430	Puppetry	
TA 4440	Creative Movement in the Classroom	
TA 4450	Arts in Action: Theatre	

Area 2: Natural Sciences & Mathematics (23-26)

Choose one of the following:		3
BIOL 1000	Introduction to Biology	
BIOL 1010	Biology for Teachers	
HSCI 1000	Concepts in Health	1
KINE 3520	Movement for Children	2
MATH 3010	Mathematical Concepts and Problem Solving for Educators I	4
MATH 3012	Mathematical Concepts and Problem Solving for Educators II	3
MATH 3013	Mathematical Concepts and Problem Solving for Educators III	3
GEOL 1090	Earth: The Blue Planet	4
Choose one of the following:		3-6
CHEM 1000 & PHYS 1000	Introduction to Chemistry and Physics in the Modern World	
NSCI 1300	Survey of Chemistry and Physics	
PHYS 3060 & CHEM 1090L	Physics and Astronomy in the Classroom and Structures and Properties of Matter Laboratory	
PHYS 1000 & CHEM 1090L	Physics in the Modern World and Structures and Properties of Matter Laboratory	

Area 3: Social Sciences & Child Development (18-21)

Choose one of the following:		3
HIST 1460	History of the United States: Pre-Colonization to Present	
HIST 2000	United States History to 1877	
HIST 2010	United States History, 1877 to the Present	
PSCI 2030	Government of the United States	3
HIST 2700	California History	3
ECON 3199	Economics in the Elementary and Middle School	3
Choose one of the following:		3-6
EDMS 3010	Growth and Development in Socio-Educational Contexts	
ENG 3310 & CAFS 2246	Child Language and Literacy Development and Observation and Methods: School Age Development	
CAFS 2240 & CAFS 2246	Introduction to Child Development and Observation and Methods: School Age Development	
Choose one of the following:		3
GEOG 1010	Introduction to Human Geography	
GEOG 1650	World Regions and Peoples	

GEOG 3520	Environmental Inquiry and Education	
GEOG 3605	Geography in the Elementary and Middle School Classroom	
Area 4: Program Requirements (10)		
CAL 2970	Liberal Studies: Foundation Seminar and Assessment Preparation	3
or LBST 2970	Liberal Studies: Foundation Seminar and Assessment Preparation	
CAL 3970	Gateway to Liberal Studies	3
or LBST 3970	Gateway to Liberal Studies	
CAL 5900	Liberal Studies and Liberal Arts Senior Assessment and Writing Workshop	2
or LBST 5900	Liberal Studies and Liberal Arts Senior Assessment and Writing Workshop	
EDMS 2301	Introduction to Education	2
Concentration (12-33)		
Students must satisfy the requirements of one concentration below.		12-33
Total Units		**78-105**

Concentrations

Note: Courses completed for this program or for the General Education program cannot be applied to any concentration.

Pre-Credential General Concentration (9 units)

(Program Code: LBSG)

CAFS 3350	Development of Exceptional Children	3
or ESPE 3350	Introduction to Special Populations for General Education Teachers	

In addition to the required UD course, student should take nine units of electives (lower or upper division) from the Colleges of Arts and Letters, Natural Sciences, and Social and Behavior Sciences.

This concentration is for students who wish to design their own course of study. They can seek the breadth of knowledge by taking classes from all three academic colleges mentioned above. They can also focus on particular areas by selecting classes in one area of study. In the latter case, they are encouraged to consult with the Liberal Studies Office and/or relevant departments.

Students who wish to pursue a credential in Special Education should take ESPE 5530, ESPE 5531, or ESPE 5532 as their electives.

Pre-Credential Spanish Studies Concentration (12 units)

(Program Code: LBSS)

The Precredential-Spanish Studies Concentration is designed for those students interested in the Bilingual Added Authorization in the Multiple Subject Credential program, which gives them the eligibility to teach in a bilingual/Spanish classroom setting.

SPAN 3301	Advanced Spanish Language and Composition	3
SPAN 3305	Applied Spanish Grammar	3
SPAN 3309	Cultures of Spanish America	3
Choose one of the following courses:		3
ANTH 3601	Case Studies in Linguistic Anthropology	
ANTH 3701R	Cultures of Mexico and Central America	
ANTH 3702R	Anthropology of South America	
ART 2329	Xicanx Art	
CAL 3350	Latinx Border Identity: A Transmedia Perspective	
CAL 5763	International Experience: Latin American Studies	
CAL 5823	International Experience: European Studies	
COMM 4302	Latinx, Media, and Cultures	
GEOG 4055	US-Mexico Border Region	
HIST 3710	California Indian History	
HIST 3900	History of Modern Mexico	
HIST 3910	Chicana/o History	
HIST 4650	Modern Central America	
HIST 4660	Foreign Relations of Latin America	
HIST 4670	Latin American History Through Film	
HIST 4690	Colonial Latin America	
HIST 4700	Modern Latin America	
HIST 5640	Chicana/Mexicana Feminisms	
HIST 5680	History of the U.S. - Mexico Borderlands	
MGMT 4050	Managing Across Borders	
MUS 3510	Latin American Music	
SOC 3420	The Latino Family	
SOC 4420	The Latino Experience in the U.S.	
SOC 4510	Sociology of Migration	
SOC 4530	Citizenship, Status, and Inequality	
Any 3000+ SPAN course not taken elsewhere to fulfill degree requirements.		
Total Units		**12**

Credential-Integrated Concentration (33 units)

(Program Code: LBSI)

This concentration includes all the courses in the CSUSB Multiple Subject Credential program. It offers students a cost-cutting and time-saving option by allowing them to complete the BA degree and the credential coursework simultaneously. Reminder: Formal admission into the Multiple Subject Credential Program at CSUSB is required before commencing Credential-Integrated Concentration courses.

EDMS 5100	Psychological Foundations of Education	3
EDMS 4101A	Language Arts Teaching and Learning	3
or EDMS 4101B	Language Arts Teaching and Learning in Bilingual Settings	
EDMS 5102	Pedagogical Foundations for Teaching English Learners	3
EDMS 4103	Creating Supportive and Engaging Learning Environments	2
EDMS 4107A	Supervised Student Teaching in Multiple Subject	6

EDMS 4110	Assessment Seminar: CalTPA Cycle	3
EDMS 5104	Mathematics Teaching and Learning	3
EDMS 5105	Science Teaching and Learning	3
EDMS 5106A	Social Studies and the Arts Teaching and Learning	3
or EDMS 5106B	Social Studies and the Arts Teaching and Learning in Bilingual Settings	
EMAT 5100	Technology and Instructional Practices for Educators	1
EMAT 5101	Education, Diversity and Social Justice	3
Total Units		**33**

College of Natural Sciences

Sastry Pantula, Dean
Carol Hood, Associate Dean
Guillermo Escalante, Assistant Dean

Biological Sciences Building, Room 107
(909) 537-5300 College of Natural Sciences website (http://nsci.csusb.edu)

Departments/Schools

- Biology (https://www.csusb.edu/biology/)
- Chemistry and Biochemistry (http://chem.csusb.edu/)
- Computer Science and Engineering (http://cse.csusb.edu/)
- Geological Sciences (http://geology.csusb.edu/)
- Health Science and Human Ecology (http://health.csusb.edu/)
- Kinesiology (https://www.csusb.edu/kinesiology/)
- Mathematics (http://www.csusb.edu/mathematics/)
- Nursing (http://nursing.csusb.edu/)
- Physics and Astronomy (http://physics.csusb.edu/)

Graduate Degree

Master of Science

- Materials Science (p. 232)

Undergraduate Degree

Bachelor of Science

- Natural Science (p. 233) with concentrations in:
  - Biology
  - Chemistry
  - Physics
  - Science and Society

Minor

Entrepreneurship in the Sciences (p. 235)

Master of Science in Materials Science

The MS Materials Science degree is appropriate for students who have earned bachelor's degrees in either chemistry, physics, materials science or related fields. Other STEM degree recipients may be accepted with appropriate additional coursework. There are two tracks for this MS Degree with a common core of courses: a thesis option, appropriate for students interested in continuing their scientific education, and an Entrepreneurial option, appropriate for students wanting to combine materials science with business.

The B.S. in Chemistry (Chemistry concentration) + M.S. in Materials Science (Interdisciplinary Materials Investigation concentration) provides an accelerated pathway to the completion of the graduate degree by allowing undergraduate students to take 11 units of graduate level coursework while in undergraduate status. These graduate level units will double count toward both the undergraduate and graduate degree requirements.

Admission to the B.S. in Chemistry + M.S. in Materials Science is open only to students who have a cumulative undergraduate GPA of 2.5 and an average GPA of 2.5 in undergraduate coursework in Chemistry completed at the time of the application. Admission must be approved by the Department of Chemistry & Biochemistry following the C.A.P.E Scholars Program policies and procedures (Coyote Accelerated Postbaccalaureate Education).

The following courses will double-count for both the B.S. in Chemistry (Chemistry concentration) + M.S. in Materials Science (Interdisciplinary Materials Investigation concentration):

- MSCI 6000
- MSCI 6110 (counts in place of the 2 unit CHEM elective requirement for BS)
- MSCI 6120
- MSCI 6500 (counts in place of the CHEM 5850/CHEM 5860 requirement for BS)
- CHEM 5100 or CHEM 5150

Admission to the Program

Specific requirements to be considered for admission to the program are:

1. A baccalaureate degree from an accredited college or university.
2. Completion of an undergraduate major in physics, chemistry, materials science or related majors. Additional undergraduate coursework may be required for related majors.
3. A cumulative undergraduate grade point average of at least 2.5 overall, and in all courses used for credit in the major (3.0 recommended).
4. Submission of scores from the Graduate Record Examination (GRE) to Graduate Admissions is optional, and may provide evidence of mastery of quantitative skills in the absence of a high GPA.
5. Submission to the Graduate Coordinator of a one to two-page, typewritten statement of the student's preparation for graduate study, goals in the graduate program, potential area of study and possible advisor, and professional goals following completion of the M.S.
6. Submission of three letters of recommendation from people who are in a position to make relevant comments on the student's intent and potential for success in the program. At least two of the letters should be from current or former college or university faculty familiar with the student's scholarship and related activities, or from current or former employers in STEM industries/government labs. All letters should be sent to the Graduate Coordinator.

Students are accepted by the Program Graduate Committee as classified students for admission for Fall semester. Spring admissions may be considered under compelling circumstances. In some cases, students who do not meet these criteria may be conditionally admitted to the program. Please consult the Graduate Coordinator for more information.

Advancement to Candidacy

To be advanced to candidacy, the student must have:

1. Achieved classified status;
2. Been accepted by a major advisor from the M.S. in Materials Science program;
3. Completed at least 6 semester units of work applicable to the degree program as a graduate student at this university, and with a minimum grade point average of 3.0;
4. Submitted a formal program of graduate course work, in addition to a project or thesis proposal, prepared in consultation with and approved by the student's thesis committee, and approved by the graduate coordinator;
5. Gained final approval of the program and of the candidacy itself by the Dean of Graduate Studies.

Requirements for Graduation

1. A minimum of 30 semester units of acceptable graduate level work included in the formal program, with no less than 21 units completed in residence at this University and with at least 21 units gained from 5000- and 6000-level courses approved by the program;
2. Advancement to candidacy for the degree and approval of the specific program of courses;
3. A cumulative grade point average of "B" (3.0) or better in all graduate course work fulfilling the requirements of the program, and a grade of "C" (2.0) or better in each course in the program;
4. Completion and defense of an entrepreneurial project, or a thesis;
5. The graduation writing requirement is met upon successful completion of the project or thesis, if not met earlier;
6. Any additional general requirements not cited above and listed in Graduate Degree and Program Requirements.

Degree Requirements (30 units)

CHEM 4800	Chemistry Foundations for Material Science	3
or PHYS 3100	Mathematical Methods of Physics	
MSCI 6110	Material Structure	3
MSCI 6000	First Year Materials Science Seminar	1
MSCI 6120	Material/Solid State Properties	3
MSCI 6130	Thermodynamics of Materials	3
MSCI 6500	Advanced Instrumentation and Experimentation in Materials Science	2
MSCI 6050	Second Year Materials Science Seminar	1

Concentration	14
Total Units	**30**

Concentrations (14 units)

Interdisciplinary Materials Investigation Concentration

(Program Code: MSIM)

Research Units: a minimum of 4 units must be taken from a combination of the following, repeatable courses.		4
MSCI 6952	Graduate Research in Materials Science	
MSCI 6953	Graduate Research in Materials Science	
Electives: a minimum of 6 units, chosen in consultation with your graduate advisor or thesis/project advisor		6
CHEM 4300	Inorganic Chemistry	
CHEM 5002	Topics in Chemistry (When topic is materials related)	
CHEM 5100	Polymer Science	
CHEM 5150	Materials Chemistry	
CHEM 5410	Solid State Chemistry	
CHEM 5550	Computational Chemistry	
GEOL 5300	Microscopy	
PHYS 3300	Computational Physics	
PHYS 5500	Solid State Physics	
PHYS 5851	Special Topics in Physics (When topic is materials related)	
PHYS 5852	Special Topics in Physics (When topic is materials related)	
PHYS 5853	Special Topics in Physics (When topic is materials related)	
PHYS 5851L	Special Topics in Physics Laboratory (When topic is materials related)	
PHYS 5852L	Special Topics in Physics Laboratory (When topic is materials related)	
MATH 3460	Probability Theory	
MATH 3770	Introduction to Graph Theory	
MATH 4270	Differential Equations with Dynamical Systems II	
IST 4510	Advanced Data Analytics	
IST 4520	Data Mining	
1 additional unit not previously used from the thesis concentration.		1
MSCI 6973	Graduate Thesis	3
Total Units		**14**

Entrepreneurial Concentration

(Program Code: MSEN)

ENTR 6210	Entrepreneurship and New Ventures	3
ENTR 6230	The Science of Opportunity: Data-Driven Recognition and Evidence-Based Evaluation	3
ENTR 5410	Commercializing Entrepreneurial Innovation	3
MSCI 6965	Materials Entrepreneurial MS Project	5
Total Units		**14**

Bachelor of Science in Natural Science

The BS Natural Sciences Degree is designed for students seeking an interdisciplinary background in the life, physical, and general science. The major consists of a comprehensive core of biological and physical science foundation courses combined with a variety of science and laboratory course electives. Students intending to earn a graduate degree in one of the sciences should pursue a BS degree in the discipline in which they are interested. This program is not designed to prepare students for graduate programs in Biology, Chemistry or Physics.

Degree Requirements (56-78 units)

Total units required for graduation: 120

Lower-Division Requirements (35-41)

NSCI 1010	New STEM Student Seminar	1
or NSCI 1011	Transfer STEM Student Seminar	
Statistics (select one course below)		3
MATH 1201	Introduction to Statistical Thinking	
HSCI 2203	Introduction to Statistics in Health Sciences	
MATH 2265	Statistics with Applications	
KINE 3700	Statistics in Kinesiology	
Calculus (Select one course)		3-4
MATH 1601	Modeling with Calculus	
MATH 2210	Calculus I *	
Biology Series I (Select Group A or B) %		4-5
Group A		
BIOL 1000 & 1000L	Introduction to Biology and Introduction to Biology Lab	
Group B		
BIOL 2010	Principles of Biology I	
Biology Series II (Select Group C, D, or E) #		5-8
Group C		
BIOL 2200	Microbiology for Allied Health Majors	
BIOL 2230	Human Anatomy and Physiology I for Allied Health Majors	
Group D		
BIOL 2230	Human Anatomy and Physiology I for Allied Health Majors	
BIOL 2240	Human Anatomy and Physiology II for Allied Health Majors	
Group E		
BIOL 2020	Principles of Biology II	
Chemistry Series (Select Group A or B) @		9-10
Group A		
CHEM 2050 & 2050L	Survey of General Chemistry and Survey of General Chemistry Laboratory	

CHEM 2060 & 2060L	Survey of Organic and Biochemistry and Survey of Organic and Biochemistry Lab	
Group B		
CHEM 2100 & 2100L	General Chemistry I and General Chemistry I Laboratory	
CHEM 2200 & 2200L	General Chemistry II and General Chemistry II Laboratory	
Physics Series (Select Group A or B) [&]		10
Group A		
PHYS 2000 & 2000L	Introduction to Physics I and Introduction to Physics I Lab	
PHYS 2010 & 2010L	Introduction to Physics II and Introduction to Physics II Lab	
Group B		
PHYS 2500 & 2500L	General Physics I and General Physics I Lab	
PHYS 2510 & 2510L	General Physics II and General Physics II Lab	
Upper-division requirements (9)		
NSCI 4100	Natural Science Capstone	3
Choose one of the following Geology courses (meets GE B5 requirement)		3
GEOL 3020	Natural Disasters	
GEOL 3040	Energy and the Environment	
Minimum of 3 upper-division general science electives from below: [^]		3
Any biology labeled BIOL 3100 or higher.		
CHEM 3200	Quantitative Analysis	
or CHEM 3400	Principles of Organic Chemistry I	
or CHEM 3500	Principles of Organic Chemistry II	
or CHEM 5100	Polymer Science	
or CHEM 5150	Materials Chemistry	
or CHEM 5200	Instrumental Analysis	
or CHEM 5300	Environmental Chemistry	
or CHEM 5320	Atmospheric Chemistry	
or CHEM 5400	Chemistry of the Elements	
or CHEM 5420	Pyrotechnics	
or CHEM 5500	Medicinal Chemistry	
HSCI 3052	Principles of Environmental Health	
or HSCI 3067	Human Diseases and Disorders	
or HSCI 4023	Health and Wellness of Older Adults	
KINE 3200	Principles of Human Movement	
or KINE 3250	Exercise Techniques for Resistance Training	
or KINE 3500	Motor Development Across the Lifespan	
or KINE 3600	Physical Activity and Aging	
or KINE 3810	Sport and Exercise Nutrition	
or KINE 4100	Motor Learning and Control	
Students must complete one of the concentrations (12-28)		**12-28**
Total Units		**56-78**

* Required to meet prerequisites in the Physics concentration.
% Group B is required to meet prerequisites in the Biology concentration.
# Group E is required to meet prerequisites in the Biology concentration.
@ Group B is required to meet prerequisites in the Biology and Chemistry concentrations.
& Group B is required to meet prerequisites in the Physics concentration.
^ Cannot be used in concentration.

Biology Concentration (16-17)

(Program Code: NSBI)

Lower-Division Requirements (4-5)		
The following courses are prerequisites to other courses in the Biology concentration and should be taken as part of the core requirements.		
BIOL 2010	Principles of Biology I (counts toward core)	
BIOL 2020	Principles of Biology II	
CHEM 2100 & 2100L	General Chemistry I and General Chemistry I Laboratory (counts toward core)	
CHEM 2200 & 2200L	General Chemistry II and General Chemistry II Laboratory	
Organic Chemistry (choose Group A, B, or C)		4-5
Group A		
CHEM 2300 & CHEM 2400L	Organic Chemistry for Life Sciences and Organic Chemistry I Laboratory (5 units total)	
Group B		
CHEM 2400 & 2400L	Organic Chemistry I Lecture and Organic Chemistry I Laboratory (4 units total)	
Group C		
CHEM 3400	Principles of Organic Chemistry I (5 units)	
Upper-Division Requirements (12)		**12**
A minimum of 12 upper-division units in biology, excluding courses numbered BIOL 3000-3099		
Total Units		**16-17**

Chemistry Concentration (20-22)

(Program Code: NSCH)

Lower-Division Requirements (8-10)		
The following courses are prerequisites to other courses in the Chemistry concentration and should be taken as part of the core.		
CHEM 2100 & 2100L	General Chemistry I and General Chemistry I Laboratory (counts toward core)	
CHEM 2200 & 2200L	General Chemistry II and General Chemistry II Laboratory	
Organic Chemistry (choose from Group A or B)		8-10
Group A		
CHEM 2400 & 2400L	Organic Chemistry I Lecture and Organic Chemistry I Laboratory	
CHEM 2500 & 2500L	Organic Chemistry II and Organic Chemistry II Laboratory	
Group B		

CHEM 3400	Principles of Organic Chemistry I	
CHEM 3500	Principles of Organic Chemistry II	
Upper-Division Requirements (12)		**12**
A minimum of 12 upper-division units in Chemistry chosen from CHEM 3200, 4100-5500		
Total Units		**20-22**

Physics Concentration (28)

(Program Code: NSPH)

Lower-Division Requirements (16)		
The following courses are prerequisites to other courses in the Physics concentration and should be taken as part of the core.		
MATH 2210	Calculus I	
PHYS 2500 & 2500L	General Physics I and General Physics I Lab	
PHYS 2510 & 2510L	General Physics II and General Physics II Lab	
MATH 2220	Calculus II	4
MATH 2310	Applied Linear Algebra	4
MATH 2320	Multivariable Calculus	4
PHYS 2600L	Introduction to Electronics	1
PHYS 2700	Modern Physics	3
Upper-Division Requirements (12)		
PHYS 3100	Mathematical Methods of Physics	4
PHYS 3300	Computational Physics	3
PHYS 3800	Intermediate Physics Laboratory	2
3 units of upper-division coursework in PHYS or ASTR, chosen in consultation with a Physics department adviser.		3
Total Units		**28**

Science and Society (12)

(Program Code: NSSS)

General Science	6
A minimum of 6 units of upper-division general science electives selected from the list below. Courses that were used to meet a core requirement may not be used.	
a. Any upper-division units in biology labeled BIOL 3100 or higher.	
b. Any upper-division units in chemistry, chosen from CHEM 3200, CHEM 3400, CHEM 3500 or CHEM 5100-5500.	
c. Any upper-division Health Science and Human Ecology courses chosen from HSCI 3052, HSCI 3067 or HSCI 4023.	
d. Any upper-division Kinesiology courses chosen from KINE 3200, KINE 3250, KINE 3500, KINE 3600, KINE 3800, KINE 3810, KINE 4100.	
General Education Upper Division Scientific Inquiry	6
A minimum of 6 Upper-Division Scientific Inquiry Electives (from GE category B-5 that do not duplicate a course taken to meet the Geology requirement)	
Total Units	**12**

Minor in Entrepreneurship in the Sciences

This minor will serve students in the College of Natural Sciences that desire to blend their primary area of study with entrepreneurship. The primary goal of the minor will be to teach science students essential skill sets in entrepreneurship to enhance their careers after graduation. In addition to learning applicable tools to bring their ideas to market, the program will also provide guidance to help students become entrepreneurial thinkers that will benefit them as employees, managers, leaders, and/or business owners.

Required Courses (18 units)

ENTR 3000	Entrepreneurship and Innovation	3
ENTR/NSCI 5410	Commercializing Entrepreneurial Innovation (Cross list as NSCI 5410)	3
ENTR 5430	Ideation and Creative Problem Solving	3
ENTR/NSCI 5440	Developing the New Venture (Cross List as NSCI 5440)	3
ENTR 5450	Resources for the Entrepreneur	3
ENTR/NSCI 5980	Reflective Essay (Cross List as NSCI 5980)	0
Three (3) unit course chosen from non-GE upper-division courses in: ENTR, ASTR, BIOL, CHEM, PHYS, GEOL, CSE, MATH, KINE, NURS, or HSCI. Students with majors outside of the College of Natural Sciences may NOT use an ENTR course for their elective.		3
Total Units		**18**

Department of Biology

Biological Sciences Building, Room 302
(909) 537-5305 Department of Biology website (https://www.csusb.edu/biology/)

The major in biology emphasizes the relationship between structure and function in living systems and the concept that biological processes can be studied at different levels of organization. The program provides a balanced blend of traditional and modern biology, incorporating the important generalizations of traditional biology and the more recent advances essential to the successful biologist or medical practitioner of the future.

The excellent facilities and equipment of the department are readily available to all students enrolled in biology courses. Seniors are encouraged to engage in research projects through the independent study program. Field trips are a normal and required part of a number of courses.

Many career opportunities are available to the student majoring in biology. The undergraduate program provides an excellent background for further work in medicine, dentistry, veterinary medicine and graduate programs. It can also serve for entry into a career in education, industry and governmental organizations.

Preprofessional students of medicine, dentistry or other science-based fields seeking a major in biology should consult with a departmental advisor or with the Health Professions Advising Center (https://cns.csusb.edu/hpac/).

The B.S. in Bioinformatics is essentially the interdisciplinary study of biology and biochemical systems using mathematics and computer science. Bioinformatics is a growing area, with many definitions and descriptions. Bioinformatics is the use of computers and statistics to make sense out of the huge mounds of data that are accumulating from high-throughput biological and chemical experiments, such as sequencing of whole gnomes, DNA microarray chips, two-hybrid experiments, and tandem mass spectrometry.

There are three different approaches to bioinformatics:

> Tool building. Creating new programs and methods for analyzing and organizing data.
> Tool using. Using existing programs and data to answer biologically interesting questions.
> Tool maintenance. Setting up databases, translating biologists' questions into ones that programs can answer, keeping the tools working and the databases up to date.
> The main goal of the degree is to prepare the students for graduate studies in bioinformatics. A secondary goal is to provide the students with very relevant bioinformatics skills that will be useful for Research and Development in the growing biotechnology industries.
>
> The degree is jointly administered by the Department of Biology, the Department of Chemistry and Biochemistry, and the School of Computer Science and Engineering. The program is housed in the School of Computer Science and Engineering.

Departmental Honors

Candidacy for departmental honors in biology is voluntary. To be eligible a student must fulfill the following requirements:

1. Achieve a minimum grade point average of 3.5 for all courses satisfying the requirements for the major (as defined above);
2. Take at least five courses in the major at this university;
3. Satisfactorily complete Biology Independent Research.

Application for candidacy must be made at the beginning of the senior year. Approval of candidacy and of the project and project advisor rests with the department. The project advisor will have sole responsibility for acceptance of the completed project.

The department may grant honors to exceptional students who fail to meet the above requirements, but who have in the judgment of the department brought distinction upon themselves and the department in some other appropriate manner.

Current Faculty

Nicole Bournias-Vardiabasis, Professor of Biology
B.S. 1975, University of California, Irvine
Ph.D. 1978, University of Essex, United Kingdom

Michael Y. Chao, Professor of Biology
B.S. 1993, National Taiwan University
Ph.D. 2001, University of Texas Southwestern Medical Center

Heidy Contreras, Assistant Professor of Biology
B.A. 2002, M.S. 2022, Cal State University-San Bernardino
Ph.D. 2010, University Of California-Irvine

Jeremy Dodsworth, Professor of Biology, Chair, Chair
B.S. 2000, University of Wisconsin, Madison
Ph.D. 2006, University of Washington

Joseph Heras, Associate Professor of Biology
B.S. 2005, University of California, Riverside
M.S. 2007, Cal State University, Los Angeles
Ph.D. 2014, University of California, Merced

Angela Horner, Professor of Biology
B.S. 2000, Centre College
M.S. 2005, University of Cincinnati
Ph.D. 2010, Ohio University - Main Campus

Lua Lopez Perez, Assistant Professor of Biology
B.S. 2007
M.S. 2009
Ph.D. 2014, University of A Coruña, Spain

Anthony E. Metcalf, Professor of Biology
B.A. 1977, Simon Fraser University
B.S. 1988, Ph.D. 1998, University of California, Riverside

Laura Newcomb, Professor of Biology
B.S. 1995, University of Wisconsin, Milwaukee
Ph.D. 2001, University of Wisconsin, Madison

Daniel Nickerson, Associate Professor of Biology
B.S. 2000, Kenyon College
Ph.D. 2008, University Of Colorado at Boulder

Tomasz Owerkowicz, Professor of Biology
B.A. 1994, Ph.D. 2003, Harvard University

David Rhoads, Professor of Biology
B.S. 1994, Pennsylvania State University
Ph.D., 1992, Michigan State University

David Smith, Associate Professor of Biology
B.S. 2001, Texas State University
Ph.D. 2012, Northern Arizona University

Stuart S. Sumida, Professor of Biology
B.A. 1981, M.A. 1983, Ph.D. 1987, University of California, Los Angeles

Anna Zelaya, Assistant Professor of Biology
B.S. 2010, California State Polytechnic University, Pomona
Ph.D. 2019, Montana State University

Emeriti

Klaus Brasch

James A. Ferrari

Sarojam Mankau

David Polcyn

John Skillman

Jeffrey M. Thompson

Kimberlyn Williams

Ruth Wilson

Undergraduate Degrees

Bachelor of Science

- Bioinformatics (p. 239)
- Biology (p. 238)

Graduate Degree

Master of Science

Biology (p. 237)

Minor

Biology (p. 240)

Certificate

- Biotechnology (p. 241)

Master of Science in Biology

The Master of Science in Biology is designed to provide the flexibility required to develop specific course programs and acceptable thesis research proposals based upon the individual graduate student's interests and background. The general goal of the program is to provide the student with opportunity for improvement of competence, development of the ability to continue self-directed study, and development of intellectual responsibility in preparation for professional leadership in biology.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. Admittance into the program **requires** acceptance into the research laboratory of a full-time faculty member in Biology who will serve as the student's thesis advisor. Applicants are encouraged to contact prospective advisors *before* submitting your application regarding the availability of Master student positions;
2. Baccalaureate degree in biology or a related field from an accredited institution of higher learning;
3. Cumulative Grade Point Average (GPA) of at least 3.0 in all biology and supporting coursework in chemistry, physics, and mathematics;
4. Submission of scores on the Graduate Record Examination (GRE) General test. Scores are used in the evaluation process;
5. Submission of a one-page, typewritten personal statement to the Department of Biology Graduate Committee. Statement should include the student's preparation for graduate study, goals in the graduate training program, potential area of research and possible advisor, and professional goals following completion of the M.S;
6. Submission of three letters of recommendation from people who are in a position to make relevant comments on the student's intent and potential for success in the M.S. program. At least two of the letters should be from current or former college or university faculty familiar with the student's scholarship and related activities.

Application deadlines for fall admission is March 31.

Advancement to Candidacy

In order to be advanced to candidacy, the student must have:

1. Achieved classified status;
2. Been accepted by a major advisor from the Department of Biology;
3. Completed at least 8 semester units of work applicable to the degree program as a graduate student at this university with the approval of the student's Thesis Graduate Committee, and with a minimum grade point average of 3.0 ("B");
4. Received recommendations for advancement to candidacy from the major advisor and from the Thesis Graduate Committee;
5. Submitted a formal program of graduate course work prepared in consultation with and approved by the student's Thesis Graduate Committee;
6. Approval of a written thesis proposal in conjunction with the completion of BIOL 6940. The graduate writing requirement is met upon successful completion of the written thesis proposal.
7. Gained final approval of the program and of the candidacy itself by the Dean of Graduate Studies.

Requirements for Graduation

1. A minimum of 30 semester units of acceptable graduate-level work included in the formal program, with no less than 21 units completed in residence at this university;
2. Advancement to candidacy for the degree and approval of the specific program of courses;
3. A grade point average of 3.0 ("B") in all graduate course work fulfilling the requirements of the Master of Science in Biology and grades of "C" (2.0) or better in each course in the program;
4. Completion of a final oral examination (thesis defense) and acceptance of the written thesis, approved by the student's Thesis Graduate Committee and Dean of Graduate Studies;
5. The Graduate Writing Assessment Requirement is met through successful completion of the thesis proposal;
6. Any additional general requirements not cited above and listed in Graduate Degree and Program Requirements (p. 74).

Thesis Graduate Committee and Major Advisor

The Thesis Graduate Committee consists of the graduate student's major advisor and two or more CSUSB Biology faculty members. Although a student must have three CSUSB Biology faculty, additional committee members from external Departments and/or Universities may be included. Students are advised to form a Thesis Graduate Committee early and meet most semesters as this committee has general supervision over a student's progress toward the Master's degree.

It is **required** for students to enter the program with the support of a major advisor. Therefore, students are responsible for contacting potential major advisors and encouraged to do so before applying to the program. The student in consultation with the major advisor will develop a program of specific courses and an acceptable thesis research proposal. The program plan and thesis proposal, as well as any subsequent modification, must be approved by the Thesis Graduate Committee and the Dean of Graduate Studies to advance to candidacy. Degree is granted upon completion and acceptance of the final thesis by the major advisor, Thesis Graduate Committee, and the Dean of Graduate Studies.

Students currently enrolled in the graduate program wishing to take courses off campus towards their graduate degree must petition the

Department of Biology for approval through the graduate program coordinator and the Graduate Committee.

Upper division undergraduate level courses (course numbers 3010-4999) will only be applied towards Graduate course work with written approval of the department.

Repetition of courses requires approval of the Department of Biology Graduate Committee.

Degree Requirements (30 units)

(Program Code: BIOM)

BIOL 5010	Ethics in Biological Research	1
BIOL 5050	Biostatistics and Experimental Design	4
Students who have completed BIOL 5010 or BIOL 5050 at the undergraduate level may substitute any other 5000- or 6000-level course, selected in consulation with their thesis advisor, to meet the unit requirements of the degree.		
BIOL 6010	Effective Teaching Strategies for Graduate TAs	2
BIOL 6020	Professional Writing in the Biological Sciences	2
BIOL 6030	Presentation in Biological Sciences	1
BIOL 6100	Primary Literature in Biology	1
BIOL 6930	Supervised Graduate Research in Biology	1
BIOL 6940	Thesis proposal	3
Three units of Independent Graduate Research in Biology (from BIOL 6951, 6952, 6953, 6954, 6955, and/or 6956)		3
Two units selected from Biology courses numbered 6300-6490.		2
Seven units of electives to be chosen from courses in biology or related fields. Courses taken outside the department to fulfill these electives require prior approval of the Graduate Committee and thesis advisor. A maximum of three units from any combination of independent study and independent research courses, taken in addition to the required Indepedent Graduate Research, may be applied toward these electives.		7
Culminating Experience (3)		**3**
Total Units		**30**

Culminating Experience (3 units)

BIOL 6970	Graduate Thesis	3
Total Units		**3**

Proposing and Defending the Thesis

Students must conduct original research, and write a thesis acceptable to their major advisor, Thesis Graduate Committee, and the Dean of Graduate Studies. Early in their graduate studies, the student, in consultation with their major advisor, will select a Thesis Graduate Committee. The student is responsible for setting regular meetings with the Thesis Graduate Committee. In order to advance to candidacy, the student will provide a public presentation and a formal written proposal of their planned research to the Thesis Graduate Committee. A final public oral defense of the thesis research, followed by examination by the Thesis Graduate Committee, is required. Successful completion of the final oral examination includes acceptance of the thesis by the Thesis Graduate Committee and the Dean of Graduate Studies.

Bachelor of Science in Biology

The Bachelor's of Science in Biology is designed to give students a broad foundation in the biological sciences while affording them the freedom to specialize in a subfield of their choice. The core requirements emphasize the relationship between structure and function in living systems and the concept that biological processes can be studied at the cellular/molecular, organismal, population, and ecosystem levels. Upper division electives allow students the option to tailor their curriculum towards particular subjects in biology. The degree prepares students for a variety of careers in the biological sciences and related fields, such as: biology- or science-related positions in academia, government, non-government organizations (NGOs), or industry; entry to graduate programs in biological research; or entry to pre-professional programs including medicine, dentistry, or veterinary medicine.

Students majoring in Biology may repeat an upper-division Biology course no more than once. Failing any two upper-division Biology courses disqualifies the student from continuation as a Biology major.

Nearly all of the courses in the BS in Biology curriculum are always entirely in-person. When hybrid or online courses are offered, there will be alternative courses that fulfill the same requirement that can be taken that are entirely in-person.

The Department also offers an articulation and Early Admission Program that provides admission to the Doctor of Osteopathic Medicine Program at Western University of Health Sciences. It is available on a competitive basis to a limited number of CSUSB Biology students. The program is open to CSUSB Biology majors only, who may apply for admission to the program after completing BIOL 2010, 2020, CHEM 2100, 2100L, 2200, 2200L, and MATH 2210 at CSUSB with a grade point average of at least 3.3 in those courses. Applicants will be screened and interviewed by a joint committee from CSUSB and Western University of Health Sciences, and up to four students will be admitted annually.

Candidates accepted to the program who (1) maintain a minimum grade point average of 3.3 in the required courses and complete specified upper division coursework for the major, (2) achieve a score of 500 or higher Medical College Admission Test (MCAT), and (3) complete the specified course work will:

1. satisfy the requirements for the B.S. in Biology and
2. have a position reserved for them in the Doctor of Osteopathic Medicine program at Western University of Health Sciences for the year following completion of the B.S. degree. Additional information regarding application and admission to the program is available in the Biology Department Office and on the Biology Department website.

Requirements (71-80 units)

Total units required for graduation: 120

Students majoring in Biology may repeat an upper-division Biology course no more than once. Failing any two upper-division Biology courses disqualifies the student from continuation as a Biology major.

Requirements for the B.S. in Biology

(Program Code: BIOL)

Lower-division requirements (41-50)		
BIOL 2010	Principles of Biology I	5
BIOL 2020	Principles of Biology II	5
CHEM 2100	General Chemistry I	4
CHEM 2100L	General Chemistry I Laboratory	1
CHEM 2200	General Chemistry II	4
CHEM 2200L	General Chemistry II Laboratory	1
Organic chemistry		
One of the sets of chemistry courses listed below (choose Group A, Group B, Group C, or Group D):		8-9
Group A:		
CHEM 2400	Organic Chemistry I Lecture	
CHEM 2400L	Organic Chemistry I Laboratory	
CHEM 2500	Organic Chemistry II	
CHEM 2500L	Organic Chemistry II Laboratory	
Group B:		
CHEM 2300	Organic Chemistry for Life Sciences	
CHEM 2400L	Organic Chemistry I Laboratory	
CHEM 4100	Biochemistry I	
CHEM 4100L	Biochemistry I Laboratory	
Group C:		
CHEM 2300	Organic Chemistry for Life Sciences	
CHEM 2400L	Organic Chemistry I Laboratory	
CHEM 3200	Quantitative Analysis	
Group D:		
CHEM 3400	Principles of Organic Chemistry I	
CHEM 3500	Principles of Organic Chemistry II	
Note: The requirement in organic chemistry may be met by the completion of one year of transferable organic chemistry course work from another institution of higher education.		
A series of math courses: Choose Group A or B below:		3-8
Group A:		
MATH 2210	Calculus I	
MATH 2220	Calculus II	
Group B:		
MATH 1601	Modeling with Calculus	
A series of physics courses: chose Group A or B below:		10-13
Group A:		
PHYS 2000	Introduction to Physics I	
PHYS 2000L	Introduction to Physics I Lab	
PHYS 2010	Introduction to Physics II	
PHYS 2010L	Introduction to Physics II Lab	
Group B:		
PHYS 2500	General Physics I	
PHYS 2500L	General Physics I Lab	
PHYS 2510	General Physics II	
PHYS 2510L	General Physics II Lab	
PHYS 2700	Modern Physics	
Upper-division requirements (30)		
BIOL 5000	Biology Seminar	1
A minimum of 29 units of upper-division course work in biology (excluding courses numbered BIOL 3000-3099), with at least one course from each of Groups A, B, and C below:		29
Group A (Cell and Molecular Biology):		
BIOL 3100-3399		
Group B (Organismal Biology):		
BIOL 3400-3699		
Group C (Population and Ecosystem Biology):		
BIOL 3700-3959		
Total Units		**71-80**

Bachelor of Science in Bioinformatics

Bioinformatics is an interdisciplinary field that develops methods and software tools for understanding biological data. As an interdisciplinary field of science, bioinformatics combines computer science, statistics, mathematics, and engineering to analyze and interpret biological data.

Requirements (72 units)

Total units required for graduation: 120

Requirements for the B.S. in Bioinformatics

(Program Code: BINF)

Lower-division requirements (50)		
BIOL 2010	Principles of Biology I	5
BIOL 2020	Principles of Biology II	5
CSE 2010	Computer Science I	4
CSE 2020	Computer Science II	4
CHEM 2100	General Chemistry I	4
CHEM 2100L	General Chemistry I Laboratory	1
CHEM 2200	General Chemistry II	4
CHEM 2200L	General Chemistry II Laboratory	1
CHEM 2300	Organic Chemistry for Life Sciences	4
MATH 2210	Calculus I	4
MATH 2220	Calculus II	4
MATH 2265	Statistics with Applications	3
MATH 2310	Applied Linear Algebra	4
MATH 2720	Discrete Mathematics	3
Upper-division requirements (22)		
BIOL 3120	Molecular Biology	4
CHEM 4100	Biochemistry I	3
CSE 4310	Algorithm Analysis	3
CSE 4880	Ethics Senior Seminar	3
CSE 5160	Machine Learning	3
CSE 5500	Advanced Bioinformatics I: Sequence Analysis	3
CSE 5720	Database Systems	3
Total Units		**72**

Minor in Biology

Requirements for a minor in Biology (35-36 units)

BIOL 2010	Principles of Biology I	5
BIOL 2020	Principles of Biology II	5
CHEM 2100	General Chemistry I	4
CHEM 2100L	General Chemistry I Laboratory	1
CHEM 2200	General Chemistry II	4
CHEM 2200L	General Chemistry II Laboratory	1
One course in organic chemistry, chosen from:		3-4
CHEM 2300	Organic Chemistry for Life Sciences	
CHEM 2400	Organic Chemistry I Lecture	
A minimum of twelve upper-division units (3-4 courses) in biology, excluding courses numbered BIOL 3000-3099.		12
Total Units		**35-36**

Certificate in Biotechnology

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Pre-Requisites for the Certificate Program

One of the following:

Group A: Completion of the following courses for students majoring in biology, chemistry or biochemistry:

BIOL 2010	Principles of Biology I	5
BIOL 2020	Principles of Biology II	5
CHEM 2100	General Chemistry I	4
CHEM 2200	General Chemistry II	4
CHEM 2300	Organic Chemistry for Life Sciences	3-4
or CHEM 2400	Organic Chemistry I Lecture	

Group B: Completion of a B.A. or B.S. in Biology, Chemistry or Biochemistry at this university, or equivalent.

Certificate Requirements (18 units)

A minimum of 8 units chosen from:		8
BIOL 3100	Cell Biology	
BIOL 3120	Molecular Biology	
BIOL 3200	Microbiology	
BIOL 3300	Genetics	
A minimum of 8 units chosen from:		8
BIOL 4200	Medical Microbiology	
BIOL 4270	Functional Microbial Genomics	
BIOL 5100	Experimental Cellular Analysis	
BIOL 5130	Animal Tissue Culture	
BIOL 5260	Genomics	
BIOL 5310	Advanced Molecular Techniques	
BIOL 5320	Virology	
BIOL 5370	Immunology	
A minimum of 2 units from the following:		2
BIOL 5752C	Internship in Biology: Biotechnology	
BIOL 5951	Independent Research	
BIOL 5952	Independent Research	
BIOL 5953	Independent Research	
BIOL 5954	Independent Research	
BIOL 5955	Independent Research	
BIOL 5956	Independent Research	
Total Units		**18**

Department of Chemistry and Biochemistry

Bachelor's of Science Degree Certified by the American Chemical Society

Chemical Science Building, Room CS-204
(909) 537-5318 Department of Chemistry and Biochemistry website (http://chem.csusb.edu)

The Department of Chemistry and Biochemistry provides:

1. Undergraduate training in chemistry and biochemistry for students planning professional careers in chemistry and allied professions such as medicine, dentistry, pharmacy, health sciences and veterinary medicine and for those contemplating graduate work for advanced degrees;
2. Appropriate courses for the teacher credential program;
3. Fundamental chemical science courses required by students majoring in related fields such as biology, health science, nursing, and geology;
4. An understanding of the achievements and contributions of chemistry as a science.

The Bachelor of Science in Chemistry satisfies the requirements for certification by the American Chemical Society.

The Bachelor of Arts in Chemistry provides greater elective flexibility for double majors and for preprofessional, interdisciplinary or other programs involving substantial preparation in chemistry.

Preprofessional students of medicine, dentistry or other science-based fields seeking a major in chemistry should See Preprofessional Programs in this catalog and consult with an advisor in the Health Professions Advising Center.

Students interested in fields such as environmental science, environmental law, business, and clinical chemistry can pursue these by following the minimum requirements of the major and appropriate electives.

Departmental Honors

To qualify for departmental honors, students must have at least a 3.0 G.P.A. in all chemistry courses taken at CSUSB, and complete two semesters of an approved, independent research project.

Current Faculty

Andreas Beyersdorf, Professor of Chemistry and Biochemistry
B.A. 2001, Chapman University
M.S. 2007, Ph.D. 2007, UC Irvine

Jason Burke, Associate Professor of Chemistry and Biochemistry
B.S. 2004, University of Oregon
Ph.D. 2012, University of California, Santa Cruz

Enrique Contreras, Assistant Professor of Chemistry and Biochemistry
M.S. 2015, Ph.D. 2019, National Autonomous University of Mexico

Kimberly R. Cousins, Professor of Chemistry and Biochemistry
B.S. 1984, Duke University

Ph.D. 1991, University of Texas, Austin

Xiaoxu Jiang, Assistant Professor of Chemistry and Biochemistry
B.S. 2000, M.S. 2003, Tongji University, China
Ph.D. 2009, University of Oklahoma, Norman

Yu Jung Kim, Professor of Chemistry and Biochemistry
B.S. 1995, M.S. 1995, Ph.D. 2002, University of California, Riverside

Jeremy Mallari, Associate Professor of Chemistry and Biochemistry
B.A. 2000, B.S. 2003, California State University, San Francisco
Ph.D. 2008, University of California, San Francisco

Joyce Pham, Associate Professor of Chemistry and Biochemistry
B.S. 2012, University of California, Davis
Ph.D. 2018, Iowa State University

Douglas C. Smith, Professor of Chemistry and Biochemistry, Chair, Chair
B.A. 1988, Wittenburg University, Ohio
Ph.D. 1994, Purdue University

Brett J. Stanley, Professor of Chemistry and Biochemistry
B.S. 1987, University of Pittsburgh
Ph.D. 1992, Utah State University

John Tate, Associate Professor of Chemistry and Biochemistry
B.S. 1979, Ph.D. 1982, University of Sheffield, England

Shumei Yang, Professor of Chemistry and Biochemistry
B.S. 1982, Zhengzhou University, P.R. China
Ph.D. 1991, Iowa State University

Renwu Zhang, Professor of Chemistry and Biochemistry
B.S. 1988, Anhui Normal University
M.S. 1993, University of Science, China
Ph.D. 2002, University of Missouri

Emeriti

John H. Craig

Kenneth A. Mantei

David F. Maynard, Interim Chair

Larry M. Mink

Dennis M. Pederson

Lisa Shamansky

Undergraduate Degrees

Bachelor of Arts

Chemistry (p. 244) with concentrations in:

- Chemistry
- Biochemistry

Bachelor of Science

Bioinformatics (p. 239)

Chemistry (p. 246) with concentrations in:

- Chemistry
- Biochemistry

Graduate Degree

Master of Science

- Environmental Sciences (p. 242)

Minor

Chemistry (p. 247)

Teaching Credential Program

Teaching Credential Subject Matter Preparation Program in Science: Chemistry

Chemistry majors pursuing a single subject teaching credential in science with a chemistry specialization will need to take the CSET Exam to verify subject matter competence. To prepare for the CSET exam, the following courses are recommended as part of, or in addition to the chemistry degree.

ASTR 1000	Introduction to Planetary Astronomy	3
ASTR 1000L	Introduction to Planetary Astronomy Lab	1
PHYS 3050	Physics and Astronomy in the Classroom	3
BIOL 2010	Principles of Biology I	5
BIOL 2020	Principles of Biology II	5
GEOL 1000	Introductory Geology	3
GEOL 1000L	Introductory Geology Laboratory	1
GEOL 1090	Earth: The Blue Planet	4
GEOL 2500	Geology of California	3

In addition, certain prerequisites and professional education courses are required. For information about admission to the teacher education program, education courses required, or the specific requirements of the single subject teaching credential in a science program, contact the Department of Science, Mathematics, and Technology Education in the College of Education.

Master of Science in Environmental Sciences

The Master of Science in Environmental Sciences is a multidisciplinary program. In addition to courses in chemistry and geology, there are opportunities for study in economics, geography, health sciences, management, and public administration. Students are admitted from numerous backgrounds, but generally with bachelor's degrees in scientific fields such as chemistry, geology, biology, or environmental science.
This program is designed to provide a broad background in sciences relevant to the environment, and is designed so that it can potentially be completed in two years.

The culminating experience in the M.S. in Environmental Sciences is either an internship coupled with an extended project and its defense, or a research thesis and defense of the thesis.

Admission to the Program

Specific requirements for admission to classified graduate status are:

1. A baccalaureate degree from an accredited college or university;
2. Completion of an undergraduate major in chemistry, geology, or associated fields with one year of general chemistry and one full-term course in organic chemistry, physics and basic calculus (or methods in calculus). Students with undergraduate degrees in unrelated fields or without all required courses are also encouraged to apply and to discuss provisional admission with the Graduate Coordinator or potential faculty mentors. Provisional admission may require completion of preparatory coursework at CSUSB;
3. A cumulative undergraduate grade point average of at least 3.0 in all courses used for credit in the major;
4. A personal statement explaining the student's preparation for graduate study, goals in the program, potential areas of research, possible advisors, and professional goals upon graduation. Prospective students should contact potential advisors available at CSUSB noted on the program website;
5. Submission of three confidential letters of recommendation from people who are in a position to make relevant comments on the student's intent and potential for success in the program. At least two of the letters should be from current or former college or university faculty familiar with the student's scholarship and related activities;
6. Optional submission of scores from the Graduate Record Examination (GRE).

Students are considered for admission for the fall semester. Under compelling circumstances, applications may be considered for spring semester. Please consult the Graduate Coordinator for more information.

Advancement to Candidacy

To be advanced to candidacy, the student must have:

1. Achieved classified status;
2. Been accepted by a major advisor from the M.S. in Environmental Sciences program;
3. Completed at least 6 semester units of work applicable to the degree program as a graduate student at this university, and with a minimum grade point average of 3.0 ("B");
4. Submitted a formal program of graduate course work, in addition to a project or thesis proposal, prepared in consultation with and approved by the student's thesis committee, and approved by the graduate coordinator;

Gained final approval of the program and of the candidacy itself by the Dean of Graduate Studies.

Requirements for Graduation

1. A minimum of 30 semester units of acceptable graduate level work included in the formal program, with no less than 21 units completed in residence at this University and with at least 21 units gained from 5000- and 6000-level courses approved by the program;
2. Advancement to candidacy for the degree and approval of the specific program of courses;
3. A cumulative grade point average of "B" (3.0) or better in all graduate course work fulfilling the requirements of the program, and a grade of "C" (2.0) or better in each course in the program;
4. Completion and defense of an internship and project, or a thesis;
5. The graduation writing requirement is met upon successful completion of the project or thesis, if not met earlier;
6. Any additional general requirements not cited above and listed in Graduate Degree and Program Requirements.

Department Graduate Admissions Committee and Major Advisor

The Environmental Sciences Graduate Admissions Committee consists of the graduate program coordinator and two or more faculty members available for consultation. This committee will determine whether students are adequately prepared for graduate study in environmental sciences, and has general supervision over the work of students progressing toward the master's degree.

Each new graduate student will consult with the graduate program coordinator for academic advising until the student has been accepted by a major advisor. Early in their graduate studies, students in consultation with their advisor, will select a project or thesis committee including the advisor and at least two other appropriate faculty. When appropriate, one member of the committee may be a person from another department or another institution who has expertise in the area of proposed research. All students are responsible for selecting their major advisor and, in turn, must be accepted by the major advisor. The student, in consultation with their committee, will develop a program of specific courses and an acceptable project research proposal based on the student's interests, abilities and preparation. The major advisor will direct the research and, where appropriate, supervise the internship. The program of courses and the project/research topic, as well as any subsequent modification of these, are subject to approval by the student's committee, the Graduate Coordinator, and the Dean of Graduate Studies.

Students enrolled in the graduate program wishing to take courses off campus and include them in the degree program must petition the Graduate Coordinator for approval, otherwise the course may not be accepted as part of the program. Extension courses at the X1000- to X9999-level are not applicable to the graduate program. Courses at the 3000- and 4000-level, other than those specified as possible electives in the program will be accepted only by written approval of the committee. Courses taken to satisfy quantitative or qualitative deficiencies cannot be applied toward a master's degree. Repeat of courses require approval of the Graduate Coordinator and will be granted only for serious and compelling reasons.

Degree Requirements (30 units)

(Program Code: ENSI)

Core Courses (15)		
BIOL 5050	Biostatistics and Experimental Design	3
or HSCI 6210	Advanced Biostatistics for Public Health	
or NURS 6355	Biostatistics	
CHEM 5320	Atmospheric Chemistry	3
or GEOG 6400	Advanced Watershed Hydrology and Management	
ECON 3740	Economics of Climate Change	3
or ECON 3103	Environmental Economics	
GEOL 6000	Advanced Environmental Chemistry and Geosciences	4
or CHEM 6000	Advanced Environmental Chemistry and Geosciences	
Two units chosen from the following:		2
GEOL 6900	**Graduate Seminar**	
or CHEM 6900	**Graduate Seminar**	
Elective Courses (6)		**6**

Choose a minimum of 6 units; at least one course must be 5000- or 6000-level (some of these elective courses have prerequisites that must be satisfied before the course can be taken).

BIOL 3200	Microbiology	
BIOL 3800	Ecology	
CHEM 5320	Atmospheric Chemistry (if not previously used as a core course)	
CHEM 5200	Instrumental Analysis	
CHEM 5753	Internship in Chemistry (if not previously used as a core course)	
CHEM 5903	Directed Laboratory Research	
CHEM 6752	Advanced Internship	
CHEM 6753	Advanced Internship	
GEOG 4880	Remote Sensing of the Environment	
GEOG 3710	Advanced Geographic Information Systems	
GEOG 3730	Geo-Spatial Analysis	
GEOG 4860	GIS and Socio-Economic Applications	
GEOG 6400	Advanced Watershed Hydrology and Management ((if not previously used as a core course))	
GEOG 6500	Environmental Issues of Land Management	
GEOL 3700	Groundwater Hydrology	
GEOL 3750	Field Methods in Hydrology	
GEOL 4100	Engineering Geology	
GEOL 5280	Digital Mapping and GIS for Scientists	
GEOL 5400	Environmental Hydrology	
GEOL 5430	Isotope Geochemistry	
GEOL 5440	Environmental Geochemistry	
GEOL 5460	Low-temperature Geochemistry	
GEOL 5600	Earth Resources	
GEOL 5620	Site Investigation, Siting, and Case Histories in Engineering Geology	
GEOL 5753	Internship in Geology (if not previously used as core courses)	
GEOL 5951	Independent Study	
GEOL 5952	Independent Study	
GEOL 5953	Independent Study	
GEOL 6100	Graduate Geological Mapping	
GEOL 6752	Advanced Internship	
HSCI 3580	Principles of Toxicology	
HSCI 4578	Environmental Health Management	
MGMT 3350	Business, Ethics, and Society	
PA 3150	Society, Business, & Global Governance	
PA 5200	Sustainability Policy and Management	
PA 6720	Administrative Regulation	
Culminating Experience (9)		**9**
Total Units		**30**

Culminating Experience (9 units)

The culminating experience in the M.S. in Environmental Sciences is either an internship coupled with an extended project and its defense, or a research thesis and defense of the thesis.

Internship and Project Option (9 units)

CHEM 6940	Graduate Research Methods and Design	3
or GEOL 6940	Graduate Research Methods and Design	
or SSCI 6950	Directed Graduate Studies	
CHEM 5753	Internship in Chemistry	3
or GEOL 5753	Internship in Geology	
or GEOG 5753	Internship in Geography	
CHEM 6960	Graduate Project in Chemistry	3
or GEOL 6960	Graduate Project	
or SSCI 6973	Graduate Project or Thesis	
Total Units		**9**

Research and Thesis Option (9 units)

CHEM 6940	Graduate Research Methods and Design	3
or GEOL 6940	Graduate Research Methods and Design	
or SSCI 6950	Directed Graduate Studies	
CHEM 6950	Directed Graduate Research in Chemistry	3
or GEOL 6950	Directed Graduate Research in Geology	
or SSCI 6950	Directed Graduate Studies	
CHEM 6970	Graduate Thesis	3
or GEOL 6970	Graduate Thesis	
or SSCI 6973	Graduate Project or Thesis	
Total Units		**9**

Bachelor of Arts in Chemistry

The Bachelor's of Art degree program in chemistry is designed for the student who plans a career in chemistry or the related sciences upon graduation, continuation to graduate school in the chemical sciences, or professional health sciences such as medicine or pharmacy, but is interested in studying other subjects to augment a basic chemistry curriculum, perhaps with a minor or a double major in another field, for example. The program provides foundational course work in the sub-disciplinary areas of organic, inorganic, physical, analytical, and biochemistry with cognate course work in biology, mathematics and physics. A concentration in biochemistry or chemistry is required. The B.A. program is not certified by the American Chemical Society.

The B.A. in Chemistry provides additional chemistry electives and fewer requirements than the B.S. degree program. The Chemistry concentration may be an appropriate degree for those that would like to become high school chemistry teachers, for example. A total of 14 free elective units are available. The biochemistry option requires biology and biochemistry course and laboratory work, and may be more appropriate for students interested in the biotech industry, medical or pharmacy school, or clinical laboratory science. Ten free elective units are available.

Requirements (68-72 units)

Total units required for graduation: 120

Requirements for a B.A. in Chemistry

Lower-division requirements (28)		
CHEM 2100	General Chemistry I	4
CHEM 2100L	General Chemistry I Laboratory	1
CHEM 2200	General Chemistry II	4
CHEM 2200L	General Chemistry II Laboratory	1
MATH 2210	Calculus I	4
MATH 2220	Calculus II	4
PHYS 2000	Introduction to Physics I	4
PHYS 2000L	Introduction to Physics I Lab	1
PHYS 2010	Introduction to Physics II	4
PHYS 2010L	Introduction to Physics II Lab	1
Note: Physics requirement may be alternatively met by taking PHYS 2500, 2500L, 2510, and 2510L.		
Upper-division requirements (15)		
CHEM 3200	Quantitative Analysis	4
CHEM 3400	Principles of Organic Chemistry I	5
CHEM 3500	Principles of Organic Chemistry II	5
Note: The organic chemistry requirement may be alternatively met with the following five courses (13 units):		
CHEM 2400	Organic Chemistry I Lecture	
CHEM 2400L	Organic Chemistry I Laboratory	
CHEM 2500	Organic Chemistry II	
CHEM 2500L	Organic Chemistry II Laboratory	
CHEM 3600	Intermediate Organic Chemistry	
CHEM 5800	Chemistry Seminar	1
Concentrations (25-29)		
Select one of the following two concentrations to complete the major		25-29
Total Units		**68-72**

Concentrations (25-29 Units)

Chemistry Concentration (25 Units)

(Program Code: CHEM)

BIOL 1000	Introduction to Biology	3
BIOL 1000L	Introduction to Biology Lab	1
MATH 2310	Applied Linear Algebra	4
CHEM 4300	Inorganic Chemistry	4
CHEM 4400	Physical Chemistry I	3
CHEM 4500	Physical Chemistry II	3
CHEM 4550	Physical Chemistry Laboratory	1
Choose 6 units of upper-division chemistry electives from the following list:		6
CHEM 4100	Biochemistry I (3 units)	
CHEM 4100L	Biochemistry I Laboratory (1 unit)	
CHEM 4200	Biochemistry II (3 units)	
CHEM 5001	Topics in Chemistry (1 unit)	
CHEM 5001L	Topics in Chemistry Laboratory (1 unit)	
CHEM 5002	Topics in Chemistry (2 units)	
CHEM 5100	Polymer Science (2 units)	
CHEM 5150	Materials Chemistry (2 units)	
CHEM 5200	Instrumental Analysis (5 units)	
CHEM 5300	Environmental Chemistry (3 units)	
CHEM 5320	Atmospheric Chemistry (3 units)	
CHEM 5400	Chemistry of the Elements (3 units)	
CHEM 5410	Solid State Chemistry	
CHEM 5420	Pyrotechnics (1 unit)	
CHEM 5500	Medicinal Chemistry (2 units)	
CHEM 5550	Computational Chemistry (2 units)	
CHEM 5751	Internship in Chemistry (1 unit)	
CHEM 5752	Internship in Chemistry (2 units)	
CHEM 5753	Internship in Chemistry (3 units)	
CHEM 5901	Directed Laboratory Research (1 unit)	
CHEM 5902	Directed Laboratory Research (2 units)	
CHEM 5903	Directed Laboratory Research (3 units)	
CHEM 5951	Independent Study (1 unit)	
CHEM 5952	Independent Study (2 units)	
CHEM 5953	Independent Study (3 units)	
Total Units		**25**

Biochemistry Concentration (29 units)

(Program Code: CBIO)

BIOL 2010	Principles of Biology I	5
BIOL 2020	Principles of Biology II	5
CHEM 4100	Biochemistry I	3
CHEM 4100L	Biochemistry I Laboratory	1
CHEM 4200	Biochemistry II	3
CHEM 4200L	Biochemistry II Laboratory	1
CHEM 4350	Bioinorganic Chemistry	3
CHEM 4600	Physical Chemistry for Biochemists I	3
CHEM 4700	Physical Chemistry for Biochemists II	3
CHEM 4750	Physical Chemistry for Biochemists Laboratory	1
Choose at least 1 units of upper-division elective from the following list:		1
CHEM 5001	Topics in Chemistry (1 unit)	
CHEM 5001L	Topics in Chemistry Laboratory (1 unit)	
CHEM 5002	Topics in Chemistry (2 units)	
CHEM 5100	Polymer Science (2 units)	
CHEM 5150	Materials Chemistry (2 units)	
CHEM 5200	Instrumental Analysis (5 units)	
CHEM 5300	Environmental Chemistry (3 units)	
CHEM 5320	Atmospheric Chemistry (3 units)	
CHEM 5400	Chemistry of the Elements (3 units)	
CHEM 5410	Solid State Chemistry	
CHEM 5420	Pyrotechnics (1 unit)	
CHEM 5500	Medicinal Chemistry (2 units)	
CHEM 5550	Computational Chemistry (2 units)	
CHEM 5751	Internship in Chemistry (1 unit)	
CHEM 5752	Internship in Chemistry (2 units)	

CHEM 5753	Internship in Chemistry (3 units)	
CHEM 5901	Directed Laboratory Research (1 unit)	
CHEM 5902	Directed Laboratory Research (2 units)	
CHEM 5903	Directed Laboratory Research (3 units)	
CHEM 5951	Independent Study (1 unit)	
CHEM 5952	Independent Study (2 units)	
CHEM 5953	Independent Study (3 units)	
Total Units		**29**

Bachelor of Science in Chemistry

The Bachelor of Science in Chemistry program is certified by the Committee on Professional Training of the American Chemical Society. It is designed for the student who plans a career in chemistry or a related field upon graduation or plans to go on to graduate school in the chemical sciences. It is also an option for students interested in medicine, pharmaceutical sciences, clinical laboratory science, forensics, environmental science, as well as industries such as petrochemicals, instrumentation, food, nutraceuticals, or cosmetics. The program provides foundational course work in the sub-disciplinary areas of organic, inorganic, physical, analytical, and biochemistry with cognate course work in biology, mathematics and physics. A concentration in biochemistry or chemistry is required.

The chemistry option requires in-depth courses in instrumental analysis, an inorganic chemistry lab, materials or polymer chemistry, one upper-division chemistry elective, and completion of a senior project. The biochemistry option requires additional biology and biochemistry course and laboratory work, and may be more appropriate for students interested in the biotech industry, medical, or pharmacy school.

The B.S. in Chemistry (Chemistry concentration) + M.S. in Materials Science (Interdisciplinary Materials Investigation concentration) provides an accelerated pathway to the completion of the graduate degree by allowing undergraduate students to take 11 units of graduate level coursework while in undergraduate status. These graduate level units will double count toward both the undergraduate and graduate degree requirements.

Admission to the B.S. in Chemistry + M.S. in Materials Science is open only to students who have a cumulative undergraduate GPA of 2.5 and an average GPA of 2.5 in undergraduate coursework in Chemistry completed at the time of the application. Admission must be approved by the Department of Chemistry & Biochemistry following the C.A.P.E Scholars Program policies and procedures (Coyote Accelerated Postbaccalaureate Education).

The following courses will double-count for both the B.S. in Chemistry (Chemistry concentration) + M.S. in Materials Science (Interdisciplinary Materials Investigation concentration):

- MSCI 6000
- MSCI 6110 (counts in place of the 2 unit CHEM elective requirement for BS)
- MSCI 6120
- MSCI 6500 (counts in place of the CHEM 5850/5860 requirement for BS)
- CHEM 5100 or CHEM 5150

Degree Requirements (80-81 units)

Total units required for graduation: 120

Lower-division requirements (37)		
BIOL 2010	Principles of Biology I	5
CHEM 2100	General Chemistry I	4
CHEM 2100L	General Chemistry I Laboratory	1
CHEM 2200	General Chemistry II	4
CHEM 2200L	General Chemistry II Laboratory	1
MATH 2210	Calculus I	4
MATH 2220	Calculus II	4
MATH 2310	Applied Linear Algebra	4
PHYS 2500	General Physics I	4
PHYS 2500L	General Physics I Lab	1
PHYS 2510	General Physics II	4
PHYS 2510L	General Physics II Lab	1
Upper-division requirements (19)		
CHEM 3200	Quantitative Analysis	4
CHEM 3400	Principles of Organic Chemistry I	5
CHEM 3500	Principles of Organic Chemistry II	5
Note: The organic chemistry requirement may be met with the following five courses (13 units) instead of CHEM 3400 and CHEM 3500:		
CHEM 2400	Organic Chemistry I Lecture	
CHEM 2400L	Organic Chemistry I Laboratory	
CHEM 2500	Organic Chemistry II	
CHEM 2500L	Organic Chemistry II Laboratory	
CHEM 3600	Intermediate Organic Chemistry	
CHEM 4100	Biochemistry I	3
CHEM 4100L	Biochemistry I Laboratory	1
CHEM 5800	Chemistry Seminar	1
CHEM 5990	Undergraduate Comprehensive Examination	0
Select one of the following two concentrations to complete the major (24-25)		**24 or 25**
Total Units		**80-81**

Concentrations (24-25 units)

Chemistry Concentration (24-25 units)

(Program Code: CHEM)

Choose one of the following:		3 or 4
MATH 2270	Differential Equations with Dynamical Systems I	
MATH 2320	Multivariable Calculus	
CHEM 4300	Inorganic Chemistry	4
CHEM 4400	Physical Chemistry I	3
CHEM 4500	Physical Chemistry II	3
CHEM 4550	Physical Chemistry Laboratory	1
Choose one of the following:		2
CHEM 5100	Polymer Science	
CHEM 5150	Materials Chemistry	
CHEM 5200	Instrumental Analysis	5

Choose one of the following:		1
CHEM 5850	Chemistry Senior Project	
CHEM 5860	Chemistry Senior Research	
Elective: Choose at least 2 units from the following list:		2
CHEM 4200	Biochemistry II	
CHEM 5001	Topics in Chemistry	
CHEM 5001L	Topics in Chemistry Laboratory	
CHEM 5002	Topics in Chemistry	
CHEM 5300	Environmental Chemistry	
CHEM 5320	Atmospheric Chemistry	
CHEM 5400	Chemistry of the Elements	
CHEM 5410	Solid State Chemistry	
CHEM 5420	Pyrotechnics	
CHEM 5500	Medicinal Chemistry	
CHEM 5550	Computational Chemistry	
CHEM 5751	Internship in Chemistry	
CHEM 5752	Internship in Chemistry	
CHEM 5753	Internship in Chemistry	
CHEM 5901	Directed Laboratory Research	
CHEM 5902	Directed Laboratory Research	
CHEM 5903	Directed Laboratory Research	
CHEM 5951	Independent Study	
CHEM 5952	Independent Study	
CHEM 5953	Independent Study	
Additionally either CHEM 5100 or 5150 may be taken to meet this requirement provided that this course was not taken to satisfy an above requirement.		
Total Units		**24-25**

Biochemistry Concentration (25 units)

(Program Code: CBIO)

BIOL 2020	Principles of Biology II	5
Choose one upper-division biology course from the following:		4
BIOL 3100	Cell Biology	
BIOL 3120	Molecular Biology	
BIOL 3200	Microbiology	
BIOL 3300	Genetics	
CHEM 4200	Biochemistry II	3
CHEM 4200L	Biochemistry II Laboratory	1
CHEM 4350	Bioinorganic Chemistry	3
CHEM 4600	Physical Chemistry for Biochemists I	3
CHEM 4700	Physical Chemistry for Biochemists II	3
CHEM 4750	Physical Chemistry for Biochemists Laboratory	1
CHEM 5700	Biochemistry III Laboratory	2
Total Units		**25**

Bachelor of Science in Bioinformatics

Bioinformatics is an interdisciplinary field that develops methods and software tools for understanding biological data. As an interdisciplinary field of science, bioinformatics combines computer science, statistics, mathematics, and engineering to analyze and interpret biological data.

Requirements (72 units)

Total units required for graduation: 120

Requirements for the B.S. in Bioinformatics

(Program Code: BINF)

Lower-division requirements (50)		
BIOL 2010	Principles of Biology I	5
BIOL 2020	Principles of Biology II	5
CSE 2010	Computer Science I	4
CSE 2020	Computer Science II	4
CHEM 2100	General Chemistry I	4
CHEM 2100L	General Chemistry I Laboratory	1
CHEM 2200	General Chemistry II	4
CHEM 2200L	General Chemistry II Laboratory	1
CHEM 2300	Organic Chemistry for Life Sciences	4
MATH 2210	Calculus I	4
MATH 2220	Calculus II	4
MATH 2265	Statistics with Applications	3
MATH 2310	Applied Linear Algebra	4
MATH 2720	Discrete Mathematics	3
Upper-division requirements (22)		
BIOL 3120	Molecular Biology	4
CHEM 4100	Biochemistry I	3
CSE 4310	Algorithm Analysis	3
CSE 4880	Ethics Senior Seminar	3
CSE 5160	Machine Learning	3
CSE 5500	Advanced Bioinformatics I: Sequence Analysis	3
CSE 5720	Database Systems	3
Total Units		**72**

Minor in Chemistry

A minor in chemistry requires foundational coursework in calculus and physics, general chemistry, organic chemistry, quantitative analysis, and six units of upper-division chemistry electives. It may be appropriate for students interested in careers that involve some knowledge of chemistry and chemical laboratory work, but not a full degree in chemistry.

Requirements for a Minor in Chemistry (38-46 units)

CHEM 2100	General Chemistry I	4
CHEM 2100L	General Chemistry I Laboratory	1
CHEM 2200	General Chemistry II	4
CHEM 2200L	General Chemistry II Laboratory	1
The organic chemistry requirement may be met by either:		5-8
CHEM 2300	Organic Chemistry for Life Sciences	
CHEM 2400L	Organic Chemistry I Laboratory	
or the following four courses:		

CHEM 2400	Organic Chemistry I Lecture	
CHEM 2400L	Organic Chemistry I Laboratory	
CHEM 2500	Organic Chemistry II	
CHEM 2500L	Organic Chemistry II Laboratory	
CHEM 3200	Quantitative Analysis	4
Choose either of the following:		3-8
MATH 1601	Modeling with Calculus	
MATH 2210 & MATH 2220	Calculus I and Calculus II	
PHYS 2000	Introduction to Physics I	4
PHYS 2000L	Introduction to Physics I Lab	1
PHYS 2010	Introduction to Physics II	4
PHYS 2010L	Introduction to Physics II Lab	1
Note: Physics requirement may be met by taking PHYS 2500, 2500L, 2510, and 2510L (10 units) instead of PHYS 2000, 2000L, 2010 and 2010L.		
Choose 6 units of upper-division chemistry electives from the following list:		6
CHEM 4100	Biochemistry I	
CHEM 4200	Biochemistry II	
CHEM 4300	Inorganic Chemistry	
or CHEM 4350	Bioinorganic Chemistry	
CHEM 4400	Physical Chemistry I	
CHEM 4500	Physical Chemistry II	
CHEM 4600	Physical Chemistry for Biochemists I	
CHEM 4700	Physical Chemistry for Biochemists II	
CHEM 5001	Topics in Chemistry	
CHEM 5001L	Topics in Chemistry Laboratory	
CHEM 5002	Topics in Chemistry	
CHEM 5100	Polymer Science	
CHEM 5150	Materials Chemistry	
CHEM 5200	Instrumental Analysis	
CHEM 5300	Environmental Chemistry	
CHEM 5400	Chemistry of the Elements	
CHEM 5410	Solid State Chemistry	
CHEM 5420	Pyrotechnics	
CHEM 5500	Medicinal Chemistry	
CHEM 5550	Computational Chemistry	
CHEM 5751	Internship in Chemistry	
CHEM 5752	Internship in Chemistry	
CHEM 5753	Internship in Chemistry	
CHEM 5901	Directed Laboratory Research	
CHEM 5902	Directed Laboratory Research	
CHEM 5903	Directed Laboratory Research	
CHEM 5951	Independent Study	
CHEM 5952	Independent Study	
CHEM 5953	Independent Study	
Total Units		**38-46**

Department of Geological Sciences

Biological Sciences Building, Room 113A
(909) 537-5336 Department of Geological Sciences website (http://geology.csusb.edu/)

The study of geology includes working to understand the chemical, physical and biological processes that affect and are recorded in rocks, minerals, and earth materials, and using that information to decipher the development of our planet. In addition, understanding geology is essential for locating necessary earth resources (oil, minerals, water) and solving those environmental problems that affect the Earth's surface. Much of the information geologists use is obtained by careful, systematic fieldwork and laboratory work, the former being an inherent requirement for geological studies.

The mission of the department is to provide high-quality training in the science of geology so as to equip our students (undergraduate and graduate) to successfully enter the geological workforce, and to contribute to the science of geology through faculty and students conducting and disseminating research in this field. Geology is a broad science that integrates with other classical sciences and disciplines such as astronomy, biology, chemistry, computer science, geography, mathematics, and physics. Course work in those disciplines, integrated within a geological framework, provides students with a broad marketable understanding.

The department offers a B.S. and a B.A. degree in geology each of which offers a choice between two concentrations:

The **B.S. in Geology, General Geology Concentration** is recommended for students planning to continue to graduate school or to other careers in the geosciences. This Concentration has more flexibility to allow the student to tailor electives to pursue a particular interest.

The **B.S. in Geology, Environmental Geology Concentration** is recommended for students planning to become professional geologists in the environmental, geotechnical, government service, petroleum, or mining areas, and to prepare for Professional Licensure.

The **B.A. in Geology, General Geology Concentration** is recommended for students planning a career in public service and education (e.g. government agencies, park rangers, and K-12 science teaching), non-profit or non-governmental environmental organizations, or pre-environmental law. This Concentration has maximum elective flexibility to produce an experience tailored to the needs of the student.

The **B.A. in Geology, Field and Applied Geology Concentration** is recommended for students planning to become professional geologists employed by environmental and geotechnical firms, governmental agencies, oil and mining companies, and for those students planning to pursue a graduate degree in geology. Emphasizing field and applied geology courses, and experiential learning, this program is designed to permit students to meet existing requirements for Professional Licensing.

Geology majors must earn a grade of "C-" (1.7) or better in all required geology courses for those courses to satisfy the degree requirements for a B.A or B.S. degree in Geological Sciences.

Departmental Honors

Students majoring in geological sciences are eligible to earn honors in geological sciences at graduation if the following conditions are met:

1. The student applies to the department for candidacy at the beginning of their senior year;
2. A minimum grade-point average of at least 3.5 in all geology courses has been earned, with a minimum of five geology courses taken at this university.
3. Satisfactory completion of at least 2 units of GEOL 4800 Senior Honors Research.

Granting of departmental honors rests with the department faculty.

Current Faculty

Kerry Cato, Professor of Geological Sciences
B.S. 1982, Texas Tech University
M.S. 1985, Ph.D. 1991, Texas A&M University

George Codi Lazar, Associate Professor of Geological Sciences
B.A. 1995, University of Florida
M.A. 2001, Columbia University
Ph.D. 2010, University of California, Los Angeles

Sally McGill, Professor of Geological Sciences
A.B. 1985, Harvard and Radcliffe
M.S. 1989, Ph.D. 1992, California Institute of Technology

Erik B. Melchiorre, Professor of Geological Sciences
B.S. 1990, University of Southern California
M.S. 1993, Arizona State University
Ph.D. 1998, Washington University

Claire Todd, Professor of Geological Sciences, Chair, Chair
B.A. 2000, Claremont McKenna College
M.S. 2002, Columbia University School of Engineering and Applied Science
Ph.D. 2007, University of Washington

Emeriti

Louis A. Fernández

Joan E. Fryxell, Professor of Geological Sciences

W. Britt Leatham

Alan L. Smith

Undergraduate Degrees

Bachelor of Arts

- Geology (p. 253) with concentrations in:
  - General Geology
  - Field and Applied Geology

Bachelor of Science

- Geology (p. 255) with concentrations in:
  - General Geology
  - Environmental Geology

Graduate Degrees

Master of Science

- Geology (p. 252)

Minor

- Geology (p. 256)

Certificates

- Paleontology (https://catalog.csusb.edu/colleges-schools-departments/natural-sciences/geological-sciences/paleontology-cert/)

Master of Science in Environmental Sciences

The Master of Science in Environmental Sciences is a multidisciplinary program. In addition to courses in chemistry and geology, there are opportunities for study in economics, geography, health sciences, management, and public administration. Students are admitted from numerous backgrounds, but generally with bachelor's degrees in scientific fields such as chemistry, geology, biology, or environmental science.

This program is designed to provide a broad background in sciences relevant to the environment, and is designed so that it can potentially be completed in two years.

The culminating experience in the M.S. in Environmental Sciences is either an internship coupled with an extended project and its defense, or a research thesis and defense of the thesis.

Admission to the Program

Specific requirements for admission to classified graduate status are:

1. A baccalaureate degree from an accredited college or university;
2. Completion of an undergraduate major in chemistry, geology, or associated fields with one year of general chemistry and one full-term course in organic chemistry, physics and basic calculus (or methods in calculus). Students with undergraduate degrees in unrelated fields or without all required courses are also encouraged to apply and to discuss provisional admission with the Graduate Coordinator or potential faculty mentors. Provisional admission may require completion of preparatory coursework at CSUSB;
3. A cumulative undergraduate grade point average of at least 3.0 in all courses used for credit in the major;
4. A personal statement explaining the student's preparation for graduate study, goals in the program, potential areas of research, possible advisors, and professional goals upon graduation. Prospective students should contact potential advisors available at CSUSB noted on the program website;
5. Submission of three confidential letters of recommendation from people who are in a position to make relevant comments on the student's intent and potential for success in the program. At least two of the letters should be from current or former college or university faculty familiar with the student's scholarship and related activities;
6. Optional submission of scores from the Graduate Record Examination (GRE).

Students are considered for admission for the fall semester. Under compelling circumstances, applications may be considered for spring semester. Please consult the Graduate Coordinator for more information.

Advancement to Candidacy

To be advanced to candidacy, the student must have:

1. Achieved classified status;
2. Been accepted by a major advisor from the M.S. in Environmental Sciences program;
3. Completed at least 6 semester units of work applicable to the degree program as a graduate student at this university, and with a minimum grade point average of 3.0 ("B");
4. Submitted a formal program of graduate course work, in addition to a project or thesis proposal, prepared in consultation with and approved by the student's thesis committee, and approved by the graduate coordinator;

Gained final approval of the program and of the candidacy itself by the Dean of Graduate Studies.

Requirements for Graduation

1. A minimum of 30 semester units of acceptable graduate level work included in the formal program, with no less than 21 units completed in residence at this University and with at least 21 units gained from 5000- and 6000-level courses approved by the program;
2. Advancement to candidacy for the degree and approval of the specific program of courses;
3. A cumulative grade point average of "B" (3.0) or better in all graduate course work fulfilling the requirements of the program, and a grade of "C" (2.0) or better in each course in the program;
4. Completion and defense of an internship and project, or a thesis;
5. The graduation writing requirement is met upon successful completion of the project or thesis, if not met earlier;
6. Any additional general requirements not cited above and listed in Graduate Degree and Program Requirements.

Department Graduate Admissions Committee and Major Advisor

The Environmental Sciences Graduate Admissions Committee consists of the graduate program coordinator and two or more faculty members available for consultation. This committee will determine whether students are adequately prepared for graduate study in environmental sciences, and has general supervision over the work of students progressing toward the master's degree.

Each new graduate student will consult with the graduate program coordinator for academic advising until the student has been accepted by a major advisor. Early in their graduate studies, students in consultation with their advisor, will select a project or thesis committee including the advisor and at least two other appropriate faculty. When appropriate, one member of the committee may be a person from another department or another institution who has expertise in the area of proposed research.

All students are responsible for selecting their major advisor and, in turn, must be accepted by the major advisor. The student, in consultation with their committee, will develop a program of specific courses and an acceptable project research proposal based on the student's interests, abilities and preparation. The major advisor will direct the research and, where appropriate, supervise the internship. The program of courses and the project/research topic, as well as any subsequent modification of

these, are subject to approval by the student's committee, the Graduate Coordinator, and the Dean of Graduate Studies.

Students enrolled in the graduate program wishing to take courses off campus and include them in the degree program must petition the Graduate Coordinator for approval, otherwise the course may not be accepted as part of the program. Extension courses at the X1000- to X9999-level are not applicable to the graduate program. Courses at the 3000- and 4000-level, other than those specified as possible electives in the program will be accepted only by written approval of the committee. Courses taken to satisfy quantitative or qualitative deficiencies cannot be applied toward a master's degree. Repeat of courses require approval of the Graduate Coordinator and will be granted only for serious and compelling reasons.

Degree Requirements (30 units)

(Program Code: ENSI)

Core Courses (15)		
BIOL 5050	Biostatistics and Experimental Design	3
or HSCI 6210	Advanced Biostatistics for Public Health	
or NURS 6355	Biostatistics	
CHEM 5320	Atmospheric Chemistry	3
or GEOG 6400	Advanced Watershed Hydrology and Management	
ECON 3740	Economics of Climate Change	3
or ECON 3103	Environmental Economics	
GEOL 6000	Advanced Environmental Chemistry and Geosciences	4
or CHEM 6000	Advanced Environmental Chemistry and Geosciences	
Two units chosen from the following:		2
GEOL 6900	**Graduate Seminar**	
or CHEM 6900	**Graduate Seminar**	
Elective Courses (6)		**6**
Choose a minimum of 6 units; at least one course must be 5000- or 6000-level (some of these elective courses have prerequisites that must be satisfied before the course can be taken).		
BIOL 3200	Microbiology	
BIOL 3800	Ecology	
CHEM 5320	Atmospheric Chemistry (if not previously used as a core course)	
CHEM 5200	Instrumental Analysis	
CHEM 5753	Internship in Chemistry (if not previously used as a core course)	
CHEM 5903	Directed Laboratory Research	
CHEM 6752	Advanced Internship	
CHEM 6753	Advanced Internship	
GEOG 4880	Remote Sensing of the Environment	
GEOG 3710	Advanced Geographic Information Systems	
GEOG 3730	Geo-Spatial Analysis	
GEOG 4860	GIS and Socio-Economic Applications	
GEOG 6400	Advanced Watershed Hydrology and Management ((if not previously used as a core course))	
GEOG 6500	Environmental Issues of Land Management	
GEOL 3700	Groundwater Hydrology	
GEOL 3750	Field Methods in Hydrology	
GEOL 4100	Engineering Geology	
GEOL 5280	Digital Mapping and GIS for Scientists	
GEOL 5400	Environmental Hydrology	
GEOL 5430	Isotope Geochemistry	
GEOL 5440	Environmental Geochemistry	
GEOL 5460	Low-temperature Geochemistry	
GEOL 5600	Earth Resources	
GEOL 5620	Site Investigation, Siting, and Case Histories in Engineering Geology	
GEOL 5753	Internship in Geology (if not previously used as core courses)	
GEOL 5951	Independent Study	
GEOL 5952	Independent Study	
GEOL 5953	Independent Study	
GEOL 6100	Graduate Geological Mapping	
GEOL 6752	Advanced Internship	
HSCI 3580	Principles of Toxicology	
HSCI 4578	Environmental Health Management	
MGMT 3350	Business, Ethics, and Society	
PA 3150	Society, Business, & Global Governance	
PA 5200	Sustainability Policy and Management	
PA 6720	Administrative Regulation	
Culminating Experience (9)		**9**
Total Units		**30**

Culminating Experience (9 units)

The culminating experience in the M.S. in Environmental Sciences is either an internship coupled with an extended project and its defense, or a research thesis and defense of the thesis.

Internship and Project Option (9 units)

CHEM 6940	Graduate Research Methods and Design	3
or GEOL 6940	Graduate Research Methods and Design	
or SSCI 6950	Directed Graduate Studies	
CHEM 5753	Internship in Chemistry	3
or GEOL 5753	Internship in Geology	
or GEOG 5753	Internship in Geography	
CHEM 6960	Graduate Project in Chemistry	3
or GEOL 6960	Graduate Project	
or SSCI 6973	Graduate Project or Thesis	
Total Units		**9**

Research and Thesis Option (9 units)

CHEM 6940	Graduate Research Methods and Design	3
or GEOL 6940	Graduate Research Methods and Design	

or SSCI 6950	Directed Graduate Studies	
CHEM 6950	Directed Graduate Research in Chemistry	3
or GEOL 6950	Directed Graduate Research in Geology	
or SSCI 6950	Directed Graduate Studies	
CHEM 6970	Graduate Thesis	3
or GEOL 6970	Graduate Thesis	
or SSCI 6973	Graduate Project or Thesis	
Total Units		**9**

Master of Science in Geology

The Master of Science in Geology is designed to provide strong preparation in geological sciences, focused directly on geological study and research. The program is designed so that it can potentially be completed in two years of full-time work. This program is intended for students who wish to pursue graduate level work as a prelude for doctoral studies, or as professional preparation for careers in geological fields.

The B.S. in Geology + M.S. in Geology provides an accelerated pathway to the completion of the graduate degree by allowing undergraduate students to take 7-8 units of graduate level coursework while in undergraduate status. These graduate level units will double count toward both the undergraduate and graduate degree requirements.

Admission to the B.S. in Geology + M.S. in Geology is open only to students who have a cumulative undergraduate GPA of 3.0 or an average GPA of 3.0 in undergraduate coursework in Geological Sciences completed at the time of the application. Students who have a lower GPA than 3.0 may still apply and will be evaluated based on the strength of their other supporting materials. Furthermore, students who do not maintain a 3.0 GPA upon completion of the B.S. in Geological Sciences will not be permitted to move to graduate status and will graduate with the B.S. Admission must be approved by the Department of Geological Sciences following the C.A.P.E Scholars Program policies and procedures (Coyote Accelerated Postbaccalaureate Education).

Students in the B.S. in Geology + M.S. in Geology program may choose from the following two concentrations for the BS and MS. The courses that double-count for each concentration are listed below:

BS in Geology – General Geology Concentration + MS in Geology

- GEOL 5000 or GEOL 5220 or GEOL 5430
- GEOL 5420 or GEOL 5440 or GEOL 5600

BS in Geology – Environmental Geology Concentration + MS in Geology

- GEOL 5000 or GEOL 5220
- GEOL 5440 or GEOL 5600

Department Graduate Committee and Thesis Advisor

The Geology Graduate Admissions Committee consists of the graduate program coordinator and two or more faculty members available for consultation. This committee will determine whether students are adequately prepared for graduate study in Geology, and has general supervision over the work of students progressing toward the master's degree.

Each new graduate student will consult with the graduate program coordinator for academic advising until the student has been accepted by a thesis advisor. All students are responsible for selecting their thesis advisor and, in turn, must be accepted by the thesis advisor. Early in their graduate studies, students in consultation with their thesis advisor, will select a thesis committee including the thesis advisor and at least two other faculty from the Department of Geological Sciences. When appropriate, one member of the committee may be a person from another department or another institution who has expertise in the area of proposed thesis research. The student, in consultation with their thesis committee, will develop a program of specific courses and an acceptable thesis proposal based on the student's interests, abilities and preparation. The thesis advisor will guide the research. The program of courses and the research topic, as well as any subsequent modification of these, are subject to approval by the student's thesis committee, the Graduate Coordinator, and the Dean of Graduate Studies. Upon completion of the research, an oral defense consisting primarily of discussion of the thesis research is required. Successful completion of the defense includes acceptance of the final thesis by the thesis committee.

Students enrolled in the graduate program wishing to take courses off campus and include them in the degree program must petition the Graduate Coordinator for approval, otherwise the course may not be accepted as part of the program. Extension courses at the X1000- to X9999-level are not applicable to the graduate program. Courses at the 3000- and 4000-level, other than those specified as possible electives in the program will be accepted only by written approval of the committee. Courses taken to satisfy quantitative or qualitative deficiencies cannot be applied toward a master's degree. Repeat of courses require approval of the Graduate Coordinator and will be granted only for serious and compelling reasons.

Admission to the Program

Specific requirements for admission to classified graduate status are:

1. A baccalaureate degree from an accredited college or university;

2. We recommend the completion of an undergraduate major in geology or associated field (e.g., geography or environmental studies) with at least 24 semester units of upper-division geology course work. However, students with undergraduate degrees in unrelated fields are also encouraged to apply and to discuss provisional admission with the Graduate Coordinator or potential faculty mentors. Provisional admission may require completion of upper-division geology or other coursework at CSUSB.

3. A cumulative undergraduate grade point average of at least 3.0 in all courses used for credit in the major;

4. Submission to the Graduate Coordinator of a one-page, typewritten statement of the student's preparation for graduate study, goals in the graduate program, potential area of research and possible advisor, and professional goals following completion of the M.S.;

5. Submission of three letters of recommendation from people who are in a position to make relevant comments on the student's intent and potential for success in the program. At least two of the letters should be from current or former college or university faculty familiar with the student's scholarship and related activities.

Submission of scores from the Graduate Record Examination (GRE) is optional.

Students are considered for admission for the fall semester. Under compelling circumstances, applications may be considered for spring semester. Please consult the Graduate Coordinator for more information.

Advancement to Candidacy

To be advanced to candidacy, the student must have:

1. Achieved classified status;
2. Been accepted by a major advisor from the M.S. in Geology program;
3. Completed at least 6 semester units of work applicable to the degree program as a graduate student at this university, and with a minimum grade point average of 3.0 ("B");
4. Submitted a formal program of graduate course work, in addition to a thesis proposal, prepared in consultation with and approved by the student's thesis committee, and approved by the graduate coordinator;
5. Gained final approval of the program and of the candidacy itself by the Dean of Graduate Studies.

Requirements for Graduation

1. A minimum of 30 semester units of acceptable graduate level work included in the formal program, with no less than 21 units completed in residence at this University and with at least 21 units gained from 5000- and 6000-level courses approved by the program;
2. Advancement to candidacy for the degree and approval of the specific program of courses;
3. A cumulative grade point average of 3.0 ("B") in all graduate course work fulfilling the requirements of the program, and a grade of "C" (2.0) or better in each course in the program;
4. Completion and defense of a thesis;
5. The graduation writing requirement is met upon successful completion of the thesis, if not met earlier;
6. Any additional general requirements not cited above and listed in Graduate Degree and Program Requirements (http://bulletin.csusb.edu/graduate-degree-programs/graduate-degree-program-requirements/).

Degree Requirements (30 units)

(Program Code: GEOL)

Core Courses (6)		
GEOL 6000	Advanced Environmental Chemistry and Geosciences	4
or CHEM 6000	Advanced Environmental Chemistry and Geosciences	
GEOL 6900	Graduate Seminar	2
or CHEM 6900	Graduate Seminar	
Electives (15)		
A minimum of 15 units, at least 6 of which are 5000- or 6000-level courses (some of these elective courses have prerequisites that must be satisfied before the course can be taken).		15
CHEM 5903	Directed Laboratory Research	
CHEM 5200	Instrumental Analysis	
GEOG 3710	Advanced Geographic Information Systems	
GEOG 3730	Geo-Spatial Analysis	
GEOG 4860	GIS and Socio-Economic Applications	
GEOG 4400	Geomorphology	
GEOL 3700	Groundwater Hydrology	
GEOL 3750	Field Methods in Hydrology	
GEOL 4100	Engineering Geology	
GEOL 5000	Advanced Topics in Geology	
GEOL 5000L	Laboratory for Advanced Topics in Geology	
GEOL 5200	Tectonics	
GEOL 5220	Neotectonics and Seismic Hazard Analysis	
GEOL 5240	Volcanology and Volcanic Hazard Assessment	
GEOL 5260	Advanced Structural Geology	
GEOL 5280	Digital Mapping and GIS for Scientists	
GEOL 5300	Microscopy	
GEOL 5400	Environmental Hydrology	
GEOL 5420	Geochemical Thermodynamics	
GEOL 5430	Isotope Geochemistry	
GEOL 5440	Environmental Geochemistry	
GEOL 5460	Low-temperature Geochemistry	
GEOL 5600	Earth Resources	
GEOL 5620	Site Investigation, Siting, and Case Histories in Engineering Geology	
GEOL 5751	Internship in Geology	
GEOL 5752	Internship in Geology	
GEOL 5753	Internship in Geology	
GEOL 5951	Independent Study	
GEOL 5952	Independent Study	
GEOL 5953	Independent Study	
GEOL 6100	Graduate Geological Mapping	
GEOL 6752	Advanced Internship	
Culminating Experience (9)		**9**
Total Units		**30**

Culminating Experience (9 units)

The culminating experience in the M.S. in Geology is a research thesis and defense of the thesis. Students will be encouraged to publish their work in a peer-reviewed journal.

GEOL 6940	Graduate Research Methods and Design	3
GEOL 6950	Directed Graduate Research in Geology	3
GEOL 6970	Graduate Thesis	3
Total Units		**9**

Bachelor of Arts in Geology

The B.A. in Geology, General Geology Concentration is recommended for students planning a career in public service and education (e.g. government agencies, park rangers and K-12 science teaching), non-profit or non-governmental environmental organizations, or pre-environmental law. This Concentration has maximum elective flexibility to produce an experience tailored to the needs of the student.

The B.A. in Geology, Field and Applied Geology Concentration is recommended for students planning to become professional geologists employed by environmental and geo-technical firms, governmental agencies, oil and mining companies, and for those students planning to pursue a graduate degree in geology. Emphasizing field and applied geology courses, and experiential learning, this program is designed to permit students to meet existing requirements for Professional Licensing.

Geology majors must earn a grade of "C-" (1.7) or better in all required geology courses for those courses to satisfy the degree requirements for a B.A. degree in Geology. No more than 3 units of elective may be from supervision courses. At least 3 units of elective must be from GEOL courses. Students may not earn credit for both concentrations.

Degree Requirements (69-75 units)

Total units required for graduation: 120

Lower-division requirements (22-25)		
Choose one of the following courses, with laboratory		4-5
CHEM 2050	Survey of General Chemistry	
CHEM 2050L	Survey of General Chemistry Laboratory	
CHEM 2100	General Chemistry I	
CHEM 2100L	General Chemistry I Laboratory	
Choose one from the following (fulfills GE 2)		3-4
MATH 1401	Accelerated Preparation for Calculus	
MATH 1601	Modeling with Calculus	
MATH 2210	Calculus I	
Choose one of the following courses, with laboratory		4-5
PHYS 1000 & 1000L	Physics in the Modern World and Physics in the Modern World Lab	
PHYS 2000 & 2000L	Introduction to Physics I and Introduction to Physics I Lab	
PHYS 2500 & 2500L	General Physics I and General Physics I Lab	
Choose one of the following courses:		3
GEOL 1000	Introductory Geology	
GEOL 1020	Plate Tectonics: Key to Understanding Earthquakes, Volcanoes and Tsunami	
GEOL 1060	Environmental Geology and Geological Hazards	
Choose one of the following laboratories:		1
GEOL 1000L	Introductory Geology Laboratory	
GEOL 1060L	Environmental Geology and Geological Hazards Laboratory	
GEOL 2000	Interpreting Earth Systems History: Stories from an Ancient Planet	4
GEOL 2500	Geology of California	3
Upper-division requirements (34)		
GEOL 3100	Introduction to Geologic Mapping	3
GEOL 3200	Mineralogy	5
GEOL 3220	Introduction to Geochemistry	4
GEOL 3240	Igneous and Metamorphic Petrology	4
GEOL 3300	Sedimentary Geology: Principles and Applications	4
GEOL 3600	Structural Geology	4
GEOL 3700	Groundwater Hydrology	3
GEOL 3990	Geological Research Design	3
GEOL 4000	Undergraduate Geological Research	2
GEOL 4900	Senior Seminar	2
Concentration (13-16)		
Students must satisfy the requirements of one of the concentrations listed below.		13-16
Total Units		**69-75**

Concentrations (13-16 units)

General Geology Concentration (13 units)

(Program Code GEOL)

Requirements (13)		
A minimum of 13 units chosen from the following (no more than 3 units from supervision courses):		13
Any 3100-level or above Geology course, not previously used for the degree, including:		
GEOL 3400	Sedimentary Geology: Environmental Systems Analysis	
GEOL 3500	Introductory Paleontology	
GEOL 3600	Structural Geology	
GEOL 3700	Groundwater Hydrology	
GEOL 3750	Field Methods in Hydrology	
GEOL 4100	Engineering Geology	
GEOL 5000	Advanced Topics in Geology	
GEOL 5000L	Laboratory for Advanced Topics in Geology	
GEOL 5200	Tectonics	
GEOL 5220	Neotectonics and Seismic Hazard Analysis	
GEOL 5240	Volcanology and Volcanic Hazard Assessment	
GEOL 5260	Advanced Structural Geology	
GEOL 5280	Digital Mapping and GIS for Scientists	
GEOL 5400	Environmental Hydrology	
GEOL 5420	Geochemical Thermodynamics	
GEOL 5430	Isotope Geochemistry	
GEOL 5440	Environmental Geochemistry	
GEOL 5460	Low-temperature Geochemistry	
GEOL 5600	Earth Resources	
GEOL 5620	Site Investigation, Siting, and Case Histories in Engineering Geology	
GEOL 6100	Graduate Geological Mapping	
Total Units		**13**

Field and Applied Geology Concentration (16 units)

(Program Code: GEFA)

Requirements (16)		
GEOL 4100	Engineering Geology	4
Six units chosen from:		6
GEOL 3901	Advanced Field Geology	

GEOL 3902	Advanced Field Geology (2)	
GEOL 3903	Advanced Field Geology (3)	
GEOL 3904	Advanced Field Geology (4)	
GEOL 3906	Advanced Field Geology (6)	
GEOL 5280	Digital Mapping and GIS for Scientists (3)	
A minimum of 6 units chosen from:		6
GEOG 4400	Geomorphology (3)	
GEOL 5600	Earth Resources (4)	
GEOG 2250	Introduction to Geographic Information Systems and Cartography	
GEOL 3750	Field Methods in Hydrology (3)	
GEOL 4200	Topics in Applied Geology (3)	
GEOL 4200L	Laboratory for Topics in Applied Geology (1)	
GEOL 5220	Neotectonics and Seismic Hazard Analysis (4)	
GEOL 5400	Environmental Hydrology (3)	
GEOL 5620	Site Investigation, Siting, and Case Histories in Engineering Geology (4)	
Total Units		**16**

Bachelor of Science in Geology

The B.S. in Geology, General Geology Concentration is recommended for students planning to continue to graduate school or to other careers in the geosciences. This Concentration has more flexibility to allow the student to tailor electives to pursue a particular interest.

The B.S. in Geology, Environmental Geology Concentration is recommended for students planning to become professional geologists in the environmental, geotechnical, government service, petroleum, or mining areas, and to prepare for Professional Licensure.

Geology majors must earn a grade of "C-" (1.7) or better in all required geology courses for those courses to satisfy the degree requirements for a B.S. degree in Geology. Students may not earn credit for both concentrations.

The B.S. in Geology + M.S. in Geology provides an accelerated pathway to the completion of the graduate degree by allowing undergraduate students to take 7-8 units of graduate level coursework while in undergraduate status. These graduate level units will double count toward both the undergraduate and graduate degree requirements.

Admission to the B.S. in Geology + M.S. in Geology is open only to students who have a cumulative undergraduate GPA of 3.0 or an average GPA of 3.0 in undergraduate coursework in Geological Sciences completed at the time of the application. Students who have a lower GPA than 3.0 may still apply and will be evaluated based on the strength of their other supporting materials. Furthermore, students who do not maintain a 3.0 GPA upon completion of the B.S. in Geological Sciences will not be permitted to move to graduate status and will graduate with the B.S. Admission must be approved by the Department of Geological Sciences following the C.A.P.E Scholars Program policies and procedures (Coyote Accelerated Postbaccalaureate Education).

Students in the B.S. in Geology + M.S. in Geology program may choose from the following two concentrations for the BS and MS. The courses that double-count for each concentration are listed below:

BS in Geology – General Geology Concentration + MS in Geology

- GEOL 5000 or GEOL 5220 or GEOL 5430
- GEOL 5420 or GEOL 5440 or GEOL 5600

BS in Geology – Environmental Geology Concentration + MS in Geology

- GEOL 5000 or GEOL 5220
- GEOL 5440 or GEOL 5600

Degree Requirements (69-78 units)

Total units required for graduation: 120

Lower-division requirements (26-27)		
CHEM 2100	General Chemistry I	4
CHEM 2100L	General Chemistry I Laboratory	1
CHEM 2200	General Chemistry II	4
CHEM 2200L	General Chemistry II Laboratory	1
Choose one of the following (fulfills GE B4/2):		3-4
MATH 1601	Modeling with Calculus	
MATH 2210	Calculus I	
Choose one of the following:		5
PHYS 2000 & 2000L	Introduction to Physics I and Introduction to Physics I Lab	
PHYS 2500 & 2500L	General Physics I and General Physics I Lab	
Choose one of the following (fulfills GE B1/5A):		3
GEOL 1000	Introductory Geology	
GEOL 1020	Plate Tectonics: Key to Understanding Earthquakes, Volcanoes and Tsunami	
GEOL 1060	Environmental Geology and Geological Hazards	
Choose one of the following (Laboratory Activity associated with GE B1/5A):		1
GEOL 1000L	Introductory Geology Laboratory	
GEOL 1060L	Environmental Geology and Geological Hazards Laboratory	
GEOL 2000	Interpreting Earth Systems History: Stories from an Ancient Planet	4
Upper-division requirements (36)		
GEOL 3100	Introduction to Geologic Mapping	3
GEOL 3200	Mineralogy	5
GEOL 3220	Introduction to Geochemistry	4
GEOL 3240	Igneous and Metamorphic Petrology	4
GEOL 3300	Sedimentary Geology: Principles and Applications	4
GEOL 3600	Structural Geology	4
Choose five units from the following:		5
GEOL 3901	Advanced Field Geology	
GEOL 3902	Advanced Field Geology	
GEOL 3903	Advanced Field Geology	
GEOL 3904	Advanced Field Geology	

GEOL 3906	Advanced Field Geology	
GEOL 5280	Digital Mapping and GIS for Scientists	
GEOL 3990	Geological Research Design	3
GEOL 4000	Undergraduate Geological Research	2
GEOL 4900	Senior Seminar	2
Concentration (7-15)		
Students must satisfy the requirements of one of the concentrations listed below:		7-15
Total Units		**69-78**

Concentrations (7-15 Units)

General Geology Concentration (7 units)

(Program Code: GEOL)

A minimum of 7 units chosen from the following list after consultation with a faculty advisor. No more than 3 units may be taken from supervision courses. At least 3 units of elective must be from Geology courses.		7
GEOL 2500	Geology of California	
Any 3100-level or above Geology course, not previously used for the degree, including:		
GEOL 3400	Sedimentary Geology: Environmental Systems Analysis	
GEOL 3500	Introductory Paleontology	
GEOL 3700	Groundwater Hydrology	
GEOL 3750	Field Methods in Hydrology	
GEOL 4100	Engineering Geology	
GEOL 4200	Topics in Applied Geology	
GEOL 5000	Advanced Topics in Geology	
GEOL 5000L	Laboratory for Advanced Topics in Geology	
GEOL 5200	Tectonics	
GEOL 5220	Neotectonics and Seismic Hazard Analysis	
GEOL 5240	Volcanology and Volcanic Hazard Assessment	
GEOL 5260	Advanced Structural Geology	
GEOL 5280	Digital Mapping and GIS for Scientists	
GEOL 5300	Microscopy	
GEOL 5400	Environmental Hydrology	
GEOL 5420	Geochemical Thermodynamics	
GEOL 5430	Isotope Geochemistry	
GEOL 5440	Environmental Geochemistry	
GEOL 5600	Earth Resources	
GEOL 5620	Site Investigation, Siting, and Case Histories in Engineering Geology	
GEOL 6100	Graduate Geological Mapping	
Total Units		**7**

Environmental and Engineering Geology Concentration (13-15 units)

(Program Code: ENVG)

GEOL 3700	Groundwater Hydrology	3
GEOL 4100	Engineering Geology	4
Choose a minimum of two courses:		6-8
GEOL 2500	Geology of California	
GEOL 3750	Field Methods in Hydrology	
GEOL 5000	Advanced Topics in Geology (Topics: Quaternary Geology or Geochronology)	
GEOL 5220	Neotectonics and Seismic Hazard Analysis	
GEOL 5400	Environmental Hydrology	
GEOL 5440	Environmental Geochemistry	
GEOL 5600	Earth Resources	
GEOL 5620	Site Investigation, Siting, and Case Histories in Engineering Geology	
GEOG 2250	Introduction to Geographic Information Systems and Cartography	
GEOG 4400	Geomorphology	
Total Units		**13-15**

Minor in Geology

Requirements for a minor in Geology (20 units)

Requirements (8)		
Choose one of the following:		3
GEOL 1000	Introductory Geology	
GEOL 1020	Plate Tectonics: Key to Understanding Earthquakes, Volcanoes and Tsunami	
GEOL 1060	Environmental Geology and Geological Hazards	
Choose one of the following laboratories:		1
GEOL 1000L	Introductory Geology Laboratory	
GEOL 1060L	Environmental Geology and Geological Hazards Laboratory	
GEOL 2000	Interpreting Earth Systems History: Stories from an Ancient Planet	4
Electives (12)		
12 units chosen from Geology courses numbered 2500 or above, with no more than two courses chosen from GEOL 3020, 3030, and 3040. Note: GEOL 3090 may not be counted towards the Minor in Geology.		12
Total Units		**20**

Department of Health Science & Human Ecology

Physical Sciences Building, Room 226
(909) 537-5339 Department of Health Science and Human Ecology website (http://health.csusb.edu/)

The Department of Health Science and Human Ecology provides relevant instruction for personal growth, community service, intellectual stimulation, and professional career opportunities in the fields of public health, health services, and environmental health. The department emphasizes an ecological approach to health and attempts to provide students with the necessary tools to understand factors contributing to the promotion of general health and well-being, disease prevention, and the elimination of health disparities.

The Department of Health Science and Human Ecology offers the following Bachelor of Science degrees: Environmental Health Science, Health Services Administration, Public Health, and Nutrition and Food Sciences. In addition, the department offers a Master of Science in Health Services Administration, and a Master of Public Health. The department also offers certificates in several specialized areas.

A Bachelor of Science is appropriate for students interested in becoming health professionals, such as health educators, health administrators, or those desiring to work in environmental protection agencies, private businesses, industrial hygiene, and safety. The programs are also designed to provide a career ladder opportunity for persons currently engaged in public health, health services, and environmental occupations or preparing for graduate work in medicine, public health, allied health, and social or natural sciences.

Specifically, the Bachelor of Science in Nutritional Sciences and Dietetics is appropriate for students preparing for careers dealing with foods, nutrition, or dietetics. After graduation, students are eligible to apply and complete an ACEND accredited internship/supervised-practice programs. After completion of 1,200 hours of supervised-practice, they are eligible to take the registration to become a registered dietitian/nutritionist (RDN). Also, graduates with Verification Statement may take the exam for Diet Technician Registered (DTR) to become Nutrition and Dietetic Technician Registered (NDTR). Graduates may also work as Certified Dietary Manager (CDM), dietary aides, School Nutrition Specialists (SNS), and in many other food- and nutrition-related jobs.

The department offers a blend of traditional and modern approaches to education and career development in the health science field. It encourages multidisciplinary orientation, community interaction, and a social outlook, and provides appropriate instruction in the health-related areas of science. In their senior year, students intern in community agencies such as health departments, hospitals, industrial plants, environmental improvement agencies, and consumer affairs offices. This high-impact practice prepares students for a successful career by , thus combining theory and practice in a professional setting.

Audiometrist Certification

Offered through the College of Extended Learning, HSCI 3374 leads to a certificate of registration as a school audiometrist issued by the California State Department of Health Services.

Departmental Honors

A graduating senior will be awarded departmental honors in Health Science after meeting the following requirements:

1. At least a 3.5 grade point average in all courses required for the major taken at California State University, San Bernardino;
2. At least a 3.0 ("B") grade point average overall;
3. An "A-" or better in HSCI Independent Study (at least three units).

Current Faculty

Nicole Henley, Professor of Health Sciences and Human Ecology, Chair, Chair
B.B.A. 1997, University Of Wisconsin-Whitewater
M.B.A. 2000, University Of Wisconsin-Whitewater
Ph.D. 2007, University of California, Los Angeles

Salome Kapella-Mshigeni, Associate Professor of Health Science and Human Ecology
B.A. 2000, M.S. 2006, University of Nevada, Las Vegas
Ph.D. 2014, Walden University

Swatantra Kethireddy, Assistant Professor of Health Science and Human Ecology
B.S. 2006, M.S. 2008, Osmania University, Hyderabad, India
Ph.D. 2015, Jackson State University

Neal Malik, Associate Professor of Health Science and Human Ecology
B.A. University of California, Irvine
M.P.H. Loma Linda University
Ph.D. 2011, Loma Linda University

Regina Moore-Ude, Assistant Professor of Health Science and Human Ecology
B.S. 1983, Southern University, New Orleans
M.B.A. 1996, University of Phoenix
M.B.A. 2010, California State University, San Bernardino
D.P.H. 2020, Loma Linda University

Melissa Murphy, Assistant Professor of Health Science and Human Ecology
B.S. Cornell University
Ph.D. 2017, Rutgers University-New Brunswick

Mahmood Nikbakhtzadeh, Assistant Professor of Health Science and Human Ecology
B.S. 1995
M.S. 1998
Ph.D. University of Bayreuth, Germany
Ph.D. 2002, Tehran University of Medical Sciences, Iran

Paulchris Okpala, Professor of Health Science and Human Ecology
B.S. 2005
M.S. 2007
D.P.H. 2010

Christy Scroggins, Lecturer in Health Science and Human Ecology
B.A. 2011, California State Univeristy - Fullerton
M.P.H. 2015, California State University - San Bernardino

Emeriti

Dorothy C. Chen-Maynard

Kim R. Clark

Ted Coleman

Richard Eberst

Daniel F. Fahey

Joe S. Hughes

Joseph E. Lovett

Lal S. Mian

Cynthia Paxton

Undergraduate Degrees

Bachelor of Science

- Environmental Health Science (p. 262)
- Health Science (p. 263)
  with concentrations in
  - General Health Science
  - Pre-Physician Assistant
- Health Services Administration (p. 264)
- Nutritional Science and Dietetics (p. 266)
- *California State University, San Bernardino's Nutritional Science and Dietetics program is a Didactic Program in Dietetics (DPD) that has been placed on probationary status by the Accreditation Council for Education in Nutrition and Dietetics of the Academy of Nutrition and Dietetics (*ACEND *(*http://www.eatrightPro.org/ACEND*)), 120 South Riverside Plaza, Suite 2190, Chicago, IL 50505-5995, (312) 899-0040 ext. 5400.*
- Public Health (p. 265)

Graduate Degrees

Master

- Public Health (p. 258)

Master of Science

- Health Services Administration (p. 259)
- Nutrition Science (p. 261)

Certificates

- Dietetic Internship (p. 267)
- Health Equity (p. 268)
- Health Services Administration (p. 269)
- Graduate Health Services Administration (p. 268)
- Graduate Public Health (p. 270)

Master of Public Health

The Master of Public Health program is a CEPH accredited program that is appropriate for health professionals furthering their careers as health educators, supervisors, leaders, and administrators in public health settings including county, state, and federal health agencies, as well as community-based organizations, healthcare organizations, and public institutions dedicated to the improvement of population health. The purpose of the MPH program is to prepare professionals to develop knowledge and skills to identify, assess, evaluate, and resolve public health problems with competence in program planning, implementation, and evaluation.

Specific entrance requirements have been established by the University and the Department of Health Science and Human Ecology. Further information and application materials are available on the department web pages.

This is a hybrid-required program. About 51-60% of the instruction will be offered in-person and about 40-49% of instruction will be offered online.

Admission to the Program

In addition to the general requirements of the University, specific requirements for admission to classified graduate status are:

1. Meet all university admissions requirements.
2. A minimum grade point average of 3.0 ("B") in the last 60 semester units of undergraduate coursework and in all post-graduate coursework;
3. Undergraduate coursework in the natural and social sciences, including those focused on diversity and population health;
4. A copy of most recent resume or *curriculum vitae*;
5. Three letters of recommendations that highlight the applicant's (1) academic ability and potential to succeed in the graduate program and (2) professional experiences that make the candidate ideal for public health. At least one letter of recommendation must be from the coordinator/director or an instructor from the school where applicant most recently completed coursework that highlights how the student met the standards of the undergraduate program (if such a coordinator/director does not exist, a faculty member may write such a letter);
6. A statement of purpose, double-spaced and 2-3 pages maximum, detailing: (1) practical experience(s) in public health and how it relates to the program (this is weighted most), (2) academic experience(s) in public health or related field, (3) immediate and long-term professional goals and how that relates to the program, (4) reasons for being interested in the MPH program, and (5) key skills the applicant can bring to the program.
7. Writing sample based on a public health topic of interest to the applicant, typed, approximately 1,000 words, double-spaced, with appropriate references (not counted in the word limit). The writing sample should highlight the applicant's basic understanding of community health needs, epidemiology, and application of public health concepts to solve population health issues.

The admissions committee evaluates the applicant as a whole package, including grade point average, letters of recommendation, and other supporting documents. Majority of emphasis and priority, however, is given to public health experiences beyond those required by curriculum, such as externship, employment, etc. that highlight the applicant's ability to be successful in the field, in addition to grade point average in core public health or related courses.

Students accepted as conditionally classified can attain fully classified status by completing at least 10 semester units of MPH core coursework with a minimum grade point average of 3.0 ("B") and must remove any deficiencies stated as conditions for acceptance into the program or otherwise set by the department's admissions committee.

Advancement to Candidacy

Candidacy will be granted to students based on:

1. Achieving classified status;
2. Completion of 20 semester units towards the MPH with a minimum grade point average of 3.0 ("B") and a B (3.0) or higher in all required coursework;
3. Submitting a formal program of study of graduate coursework prepared in consultation with the MPH program director and receiving recommendation for candidacy;
4. Completing the Writing Requirement for Graduate Candidacy (WRGC) which will be satisfied by completion of a program-specific course upon discussion with advisor.

Requirements for Graduation

1. Advancement to candidacy for the degree and approval of the specific program of study;
2. A cumulative grade point average of 3.0 (“B”) or better, in all graduate course work fulfilling the requirements of the Master of Public Health and grades of “B” (3.0) or better in all coursework;
3. A minimum of 42 semester units of approved graduate-level coursework included in the formal program, with at least half of the units required for the degree gained from 6000-level courses in Health Science and Human Ecology (HSCI), a minimum of 30 units must be completed at this university;
4. Completion of all program requirements, including culminating experience;
5. The Graduate Writing Assessment Requirement is met by completion of a program-specific course in consultation with an advisor.

Degree Requirements (42 units)

(Program Code: PHLT)

Core courses (38)		
HSCI 6200	Professional Development and Leadership in Public Health	4
HSCI 6210	Advanced Biostatistics for Public Health	4
HSCI 6220	Advanced Topics in Epidemiology	4
HSCI 6230	Advanced Topics in Environmental and Occupational Health	3
HSCI 6240	Advanced Study in Health Promotion	4
HSCI 6250	Advanced Topics in Public Health Policy and Administration	4
HSCI 6260	Health Education Program Planning and Evaluation	4
HSCI 6280	Grant Writing for Health Sciences	4
HSCI 6390	Advanced Professional Development and Leadership in Public Health	2
HSCI 6410	Project Preparation	1
HSCI 6954	Field Experience	4
Culminating Experience Options (4)		**4**
Total Units		**42**

Culminating Experience (4 units)

Choose one of the following		4
HSCI 6960	Project	
HSCI 6974	Thesis	
Total Units		**4**

Students complete an integrative learning experience that demonstrates a synthesis of foundational and concentration competencies. In consultation with the program director and faculty, students select specific competencies appropriate for students' educational and professional goals.

Master of Science in Health Services Administration

The Master of Science in Health Services Administration is appropriate for students preparing to become health service administrators or managers in hospitals, health maintenance organizations, medical group clinics, nursing homes, public health departments, state and federal health agencies, military health services, or other health service organizations.

Specific entrance requirements have been established by the University and the Department of Health Science and Human Ecology. Information about entrance requirements is available at the department website.

Students who wish to design a specific, individualized master's degree related to health science should also consider the M.A. in Interdisciplinary Studies. Students can successfully combine courses from several relevant fields to build interdisciplinary programs serving their career goals in such areas as Community Health Education, Health Promotion, Environmental Health, Occupational Health/ Industrial Hygiene, Public Health, and Gerontology.

Students may also earn a certificate in Finance, Accounting, and Information Systems along with the Master of Science in Health Services Administration.

The Master of Science in Health Service Administration program offers a hybrid instructional modality that combines online and face-to-face learning experiences for a well-rounded educational journey. Here's what you can expect:

- Our program's hybrid format is designed to offer you the best of both worlds. With 50% of the instruction delivered online and 50% through in-person sessions, you'll enjoy the flexibility of online learning while benefiting from the rich interactions and engagement of face-to-face sessions.
- Assessments: Throughout the program, you can expect a variety of assessments, including exams, projects, presentations, and discussions. Some courses may require in-person final exams to evaluate your understanding of the material, while others offer online-timed exams to accommodate different needs.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A minimum grade point average of 3.0 ("B") for the major or for the last 60 semester units of undergraduate coursework and in all post-graduate coursework;

2. A copy of most recent resume or *curriculum vitae*;
3. A statement of purpose, double-spaced and 2-3 pages maximum, describing those experiences which have shaped the applicant's interest in the MSHSA program. Comment on your current knowledge, skills, experience, and preferred areas of work in the field of health services administration, one academic experience which has meant the most to your professional career, immediate and long-term professional goals, reasons for being interested in the MSHSA program, strengths the applicant brings to the program, skills which the applicant would like to improve, and how the MSHSA degree will help you grow professionally.;
4. Writing sample based on a health services management topic of interest to the applicant, typed, approximately 1,000 words, double spaced;
5. Recommendation for advancement to candidacy from the Graduate Director of the Master of Science in Health Service Administration Program.

Students who meet the above criteria may be admitted as conditionally classified graduate students. To attain fully classified status, students must complete at least 16 semester units of MSHSA core coursework with a minimum grade point average of 3.0 ("B") and must remove any deficiencies stated as conditions for acceptance in the program or otherwise set by the department's graduate committee.

Advancement to Candidacy

To be advanced to candidacy, the student must have:

1. Completed 20 semester units toward the MSHSA with a minimum grade point average of 3.0 ("B");
2. Submit a formal program of study of graduate coursework prepared in consultation with the MSHSA graduate director;
3. Be recommended for advancement to candidacy by the MSHSA Graduate Director.

Requirements for Graduation

In addition to the general requirements of the university and the department, graduation requirements include:

1. Advancement to candidacy for the degree and approval of the specific program of study;
2. A minimum of 82% (35 units) of 43 units must be completed at this university;
3. The Graduate Writing Assessment Requirement is met through successful completion of an upper-division Writing Intensive course;
4. A grade point average of 3.0 ("B"), or better, in all graduate course work and research fulfilling the requirements of the Master of Science in Health Services Administration and grades of "B-" (2.7) or better in all coursework.

Classified and conditionally classified graduate students in the Master of Science program must complete their degree requirements within seven years.

Degree Requirements (43 units)

(Program Code: HSAD)

Core Courses (33)		
HSCI 6101	Introduction to the US Health Care System	3
HSCI 6103	Communication and Human Relations in Health Services	3
HSCI 6113	Administration of Health Care Programs	3
HSCI 6123	Management, Organization and Planning	3
HSCI 6133	Health Economics and Financial Systems	3
HSCI 6143	Information and Technology Systems Management in Health Services	3
HSCI 6153	Health Law and Medical Ethics	3
HSCI 6163	Strategic Planning and Evaluation	3
HSCI 6173	Health Services Administration Leadership, Team, and Quality Development	3
HSCI 6183	Health Services Administration Capstone Seminar	3
HSCI 6193	Graduate Research Methodology in Health Services Administration	3
Electives (7)		**7**
With the approval of their graduate advisor, students will select at least 7 units of electives that align with their career goals.		
Culminating Experience (3)		**3**
Total Units		**43**

Culminating Experience (3 units)

HSCI 6754	Administrative Residency	3
or HSCI 6963	Graduate Project	

Master of Science in Nutrition Science

(Program Code: NTSC)

The MS in Nutrition Science prepares students for careers in nutrition and related fields by developing their knowledge and skills in nutrition science, cultural competencies, and applied research methods. As part of the program, students will complete original or applied research, and write and present a thesis or a project. Only students jointly enrolled in the Individualized Supervised-Practice Pathway (ISPP) and the MS program have the option to complete a project that includes supervised-practice experience rather than a thesis. This project-based option requires students to complete the Accreditation Council for Education of Nutrition and Dietetics (ACEND) requirement of 1,200 hours of supervised-practice experience, complete an applied research project in one of the rotation sites, and present their findings.

1. Meet all university admissions requirements.
2. A minimum grade point average of 3.0 (“B”) in the last 60 semester units of undergraduate coursework and in all post-graduate coursework.
3. Minimum prerequisites for the Master of Science in Nutrition Science include completion of the following college-level courses with a grade of “C” or better: General Chemistry series with lab (CHEM 2050 & 2050L), Organic and biochemistry series with lab (CHEM 2060 & 2060L), Nutritional Biochemistry (e.g., HSCI 4661), Anatomy & Physiology with lab (BIOL 2230 & 2240), Statistics (MATH 1201 or HSCI 3205), Fundamentals of Human Nutrition (HSCI 3601). Exposure to life cycle nutrition as part of another course or as a devoted course is highly recommended (HSCI 3602). Most students with a Bachelor of Science in Nutrition degree will meet the prerequisite requirements.
4. A copy of most recent resume or *curriculum vitae.*
5. Three letters of recommendations that highlight the applicant’s (1) academic ability and potential to succeed in the graduate program and (2) professional experiences that make the candidate ideal for nutrition science.
6. A statement of purpose, double-spaced and no more than 1,000 words, detailing: (1) practical experience(s) in nutrition science and how it relates to the program (this is weighted most), (2) academic experience(s) in nutrition or related field, (3) immediate and long-term professional goals and how that relates to the program, (4) reasons for being interested in the Nutrition Science M.S. program at CSUSB, and (5) key skills the applicant can bring to the program.
7. Writing sample based on a nutrition topic of interest to the applicant, typed, approximately 1,000 words, double-spaced, with appropriate references (not counted in the word limit). The writing sample should highlight the applicant's basic understanding of human nutrition science and relevant concepts to solve health issues.

Note that students who apply for the dual MS and ISPP will require a DPD verification statement for this track. This will be part of the ISPP admissions review process, which is complementary but independent from the MS admissions process.

1. Completion of 18 semester units towards the MSNS including the core courses: HSCI 6601, HSCI 6602, HSCI 6603 and HSCI 6653, with a minimum grade point average of 3.0 ("B") and a B (3.0) or higher in all required coursework.
2. Thesis or project primary advisor, topic and committee have been approved by the MSNS program director.
3. Submitting a formal program of study of graduate coursework prepared in consultation with the MSNS program director and receiving recommendation for candidacy.

1. Advancement to candidacy for the degree and approval of the specific program of study.
2. A GPA of 3.0 (grade of B) or better must be achieved in all courses taken to satisfy the program course requirements.
3. Completion of 32 semester units of approved graduate-level coursework included in the formal program.
4. The satisfactory completion of a thesis or project, including an exit seminar, is required prior to completion of the program.

HSCI 6601	Macronutrient Biochemistry	3
HSCI 6602	Micronutrient Biochemistry	3
HSCI 6603	Research Methods and Biostatistics in Nutrition Science	3
HSCI 6653	Nutrition Assessment	3
HSCI 6973	Graduate Thesis (must be taken twice)	6
or HSCI 6963	Graduate Project in Nutrition Science	
HSCI 6690	Nutrition Graduate Seminar (must be taken twice)	2
Electives in Area of Interest - take 12 units from options below		12
HSCI 6651	Complementary and Alternative Therapy	
HSCI 6652	Nutrition for Sports Performance	
HSCI 6654	Advanced Topics in Nutrition Across the Life Span	
HSCI 6656	Advanced Public Health Nutrition	
HSCI 6657	Management of Nutrition and Dietetic Services	
HSCI 6658	Advanced Topics in Medical Nutrition Therapy	
HSCI 6659	Topics in Global Nutrition	
HSCI 6660	Nutrition in Health & Disease	
HSCI 6220	Advanced Topics in Epidemiology	
HSCI 6280	Grant Writing for Health Sciences	
HSCI 6240	Advanced Study in Health Promotion	
HSCI 6250	Advanced Topics in Public Health Policy and Administration	
HSCI 6260	Health Education Program Planning and Evaluation	
HSCI 6300	Global Health	
HSCI 6310	Health Education Practice	
HSCI 6340	Information Literacy in Public Health	
HSCI 6360	Qualitative Methods in Public Health	
HSCI 6370	Survey Design in Public Health	
HSCI 6380	Maternal Child Health	
HSCI 6400	Health Science Data Science	
Total Units		**32**

Thesis Option

The thesis will be based on supervised original research conducted by the student with close supervision from the student's major professor. The thesis concept (i.e., the proposed research prior to starting the work) must first be approved by the student's thesis committee, and the final thesis must be reviewed and approved by the students' thesis committee before submitting to Graduate Studies.

The following is an outline of the development and completion of the thesis.

1. **Thesis advisor and committee selection** - Within the first semester of the program, the student meets with faculty to learn about their research and finds a faculty member they would like to work with as a major professor. With the major professor, the student selects two additional faculty as the thesis committee (major professor plus two other faculty).
2. **Thesis proposal** - By the end of the first year, the student should complete a proposal for the thesis work, which must be approved by the student's thesis committee before the student can start the research. This proposal should include an in-depth literature review of the research topic, a problem statement, the hypothesis of the research, the research design, methods that will be used, and APA-formatted references.
3. **Register for HSCI 6973 - Thesis in order to conduct the thesis research and write the thesis** - In the second year of the program the student will need to register for a total of 6 units of HSCI 6973. During this year, the student will carry out the thesis research and write the thesis. The summer between the first and second year should be used to work on conducting the research and Fall and Spring semesters of the second year should be focused on writing the thesis.
4. **Approval of written thesis** - The thesis committee must approve a final version of the thesis that will then be submitted to graduate studies.
5. **Exit seminar** - Upon completion of the approved thesis, the student should schedule an exit seminar during a time that the thesis committee can attend.

Project Option

The project will be based on the students'/interns' experience while completing the ACEND required hours, typically 1,200 hours, of supervised-practice experience to complete their ISPP Program training, which can be completed in 11 months. The interns will work closely with the ISPP Program Coordinator, preceptors, HSCI faculty, and Didactic Program in Dietetics (DPD) Director to complete the supervised-practice hours and competencies requirements including an applied research project to be conducted during a supervised-practice rotation. The applied research project proposal must be submitted and approved by the ISPP Program Coordinator prior to starting the project. The research project should focus on a question or problem relevant to applied nutrition or dietetic practice. The proposal and project should include a systemic approach and application of research methodology. After completion of HSCI 6603 in the first year, interns should have some idea of a research topic and method for data collection.

ISPP interns must register for HSCI 6963 in Fall and Spring semesters of their second year. Their rotation hours, sites, and preceptors must be approved by the ISPP Program Coordinator. The final portfolio, reflective statement, and a research report must be submitted to the ISPP Program Coordinator prior to conferral of the degree.

Exit Seminar: The ISPP interns will present their supervised-practice experiences and research findings to their peers, preceptors, ISPP Program Coordinator, DPD Director, and program faculty.

Bachelor of Science in Environmental Health Science

Environmental Health Science (EHS) is an interdisciplinary STEM field that merges principles of public health with the fundamental sciences of biology, chemistry, and physics. At its core, it is dedicated to the practical application of scientific knowledge to safeguard human populations from a wide array of potentially harmful agents, including air & water pollutants, chemicals, radiation, noise, food-borne pathogens and insect-borne diseases.

Program graduates are consistently the top candidates for Environmental Health Science (EHS) positions across a broad spectrum of sectors, including city, county, state, and federal agencies. Beyond government roles, numerous opportunities await the graduates in non-governmental organizations (NGOs), international organizations, healthcare institutions, insurance companies, major retailers, as well as colleges and universities.

For those aspiring to become Registered Environmental Health Specialists (REHS) through the state-administered exam and seeking the most efficient route to success, the program at CSUSB offers the shortest path.

The Environmental Health Science program at CSU San Bernardino is accredited at the state level by the California Department of Public Health (CDPH) and at the national level by the National Environmental Health Science & Protection Accreditation Council (EHAC). These two accreditation bodies ensure that the program meets all the required standards. All of the teaching and training in the program match the professional set standards and the community needs.

Note: All upper-division courses with an HSCI prefix or any course approved for upper-division Health Science substitutions require a grade of "C" (2.0) or better.

Degree Requirements (77 units)

Total units required for graduation: 120

(Program Code: ENHS)

Lower-division requirements (35)

Completion of the lower-division requirements results in satisfaction of GE 2, 5A, 5B, and 5C (10 units).		
CHEM 2100	General Chemistry I	4
CHEM 2100L	General Chemistry I Laboratory	1
CHEM 2200	General Chemistry II	4
CHEM 2200L	General Chemistry II Laboratory	1
CHEM 2060	Survey of Organic and Biochemistry	4
CHEM 2060L	Survey of Organic and Biochemistry Lab	1
PHYS 2000	Introduction to Physics I	4
PHYS 2000L	Introduction to Physics I Lab	1
PHYS 2010	Introduction to Physics II	4

PHYS 2010L	Introduction to Physics II Lab	1
MATH 1601	Modeling with Calculus	3
HSCI 2203	Introduction to Statistics in Health Sciences	3
BIOL 2200	Microbiology for Allied Health Majors	4
One year sequence of Biology courses (8)		
Choose either Group A or Group B for a minimum of 8 units		8
Group A		
BIOL 2230	Human Anatomy and Physiology I for Allied Health Majors	
BIOL 2240	Human Anatomy and Physiology II for Allied Health Majors	
Group B		
BIOL 2010	Principles of Biology I	
BIOL 2020	Principles of Biology II	
Upper-division requirements (28)		
HSCI 3052	Principles of Environmental Health	3
HSCI 3580	Principles of Toxicology	3
HSCI 4202	Epidemiology	3
HSCI 4501	Advanced Environmental Health	4
HSCI 4502	Principles of Occupational Health	4
HSCI 4503	Vector-borne Disease Control	4
HSCI 4578	Environmental Health Management	3
HSCI 5759	Internship in Environmental Health	4
Environmental Health Electives (6)		
Six units chosen from the following (or others as approved by the program faculty advisor)		6
HSCI 3522	Air Pollution and Radiological Health	
HSCI 3556	Housing, Institutions, and Land Use	
HSCI 3558	Water Quality and Pollution Control	
HSCI 3581	Occupational Safety	
HSCI 4577	Environmental Health Engineering	
HSCI 5530	Food-Borne Illnesses and Their Prevention	
HSCI 5557	Solid and Hazardous Waste Management	
HSCI 5531	Bioterrorism and Emergency Response	
HSCI 5558	Management of Water Quality	
Total Units		**77**

Bachelor of Science in Health Sciences

The Bachelor of Science in Health Sciences is designed for students passionate about improving health and well-being across diverse populations. This interdisciplinary program combines foundational knowledge in biological sciences, health policy, public health, nutrition, environmental health and health services administration preparing graduates for a variety of careers in the health sector. Students in the BS in Health Science are able to tailor their degree curriculum to meet a variety of career and life goals. Students who have completed the pre-requisite courses for the BS in Nursing program or for the MS Physician Assistant program will find that all of the prerequisite courses for those programs count toward this degree.

The program features a core with 35-36 units (of which at least 21 units are upper-division health science courses). Students may choose one of two concentrations.

The **General Health Science concentration** requires 6 units of upper-division Health Science electives as well as 17 units of other elective courses chosen from Biology, Chemistry and Health Science. This will serve students who are admitted to our Pre-Nursing program but who are declined admission to our impacted BS in Nursing program. All 17 units of Biology and Chemistry courses that CSUSB's Pre-Nursing majors take will count as electives within the General Health Science concentration. This concentration will also serve Pre-Nursing students who switch to the projected BS in Health Science program before completing all of their Pre-Nursing courses and will serve students who did not start as Pre-Nursing majors but choose to enroll directly in the projected BS in Health Science. The General Health Science concentration allows students to fulfill 17 units of electives using any combination of Pre-Nursing Biology and Chemistry courses with other health science courses.

Students who choose the **Pre-Physician Assistant concentration** follow a more prescriptive program which includes 28 - 30 units of Biology and Chemistry courses that are required for entry into a typical Physician Assistant program (these 28 - 30 units include all 17 units that Pre-Nursing students take).

Degree Requirements (58-66 units)

Total units required for graduation: 120

Note: All Health Science concentrations require grades of "C" (2.0) or better in all upper-division coursework with an HSCI prefix or any course approved for upper-division Health Science substitutions required in the major. Certain required courses also apply in the university's general education program (https://catalog.csusb.edu/undergraduate-degree-programs/general-education-program/).

Lower-division requirement (14-15)		
HSCI 2200	Introduction to Public Health	3
HSCI 2645	Cooking for Fun and Health	2
KINE 2200	Medical Terminology	3
Statistics Course (select one of the following)		3
MATH 1201	Introduction to Statistical Thinking	
MATH 2265	Statistics with Applications	
HSCI 2203	Introduction to Statistics in Health Sciences	
KINE 3700	Statistics in Kinesiology	
Math Course - (select one of the following)		3 - 4
MATH 1401	Accelerated Preparation for Calculus	
MATH 1403	Preparation for Calculus B	
MATH 1601	Modeling with Calculus	
MATH 2210	Calculus I	
MATH 2220	Calculus II	
Upper-division requirements (21)		
HSCI 3040	Introduction to Health Services Administration	3
HSCI 3052	Principles of Environmental Health	3
HSCI 3060	Medical Care Organizations	3
HSCI 3580	Principles of Toxicology	3
HSCI 3600	Nutrition for Health	3

HSCI 3207	Social Determinants of Health	3
HSCI 4202	Epidemiology	3
Concentration (23-30)		
One of the following concentrations is required for the major:		23-30
Total Units		**58-66**

Concentrations

General Health Science Concentration (23 units)

General Science Electives (Choose 17 units from below):		17
Up to 7 units may be chosen from any HSCI courses not on this list		
BIOL 1000	Introduction to Biology	
BIOL 1000L	Introduction to Biology Lab	
BIOL 2010	Principles of Biology I	
BIOL 2020	Principles of Biology II	
BIOL 2200	Microbiology for Allied Health Majors	
BIOL 2230	Human Anatomy and Physiology I for Allied Health Majors	
BIOL 2240	Human Anatomy and Physiology II for Allied Health Majors	
CHEM 1000	Introduction to Chemistry	
CHEM 1000L	Introduction to Chemistry Laboratory	
CHEM 2050	Survey of General Chemistry	
CHEM 2050L	Survey of General Chemistry Laboratory	
CHEM 2060	Survey of Organic and Biochemistry	
CHEM 2060L	Survey of Organic and Biochemistry Lab	
CHEM 2070	Fundamentals of General, Organic, and Biochemistry	
CHEM 2100	General Chemistry I	
CHEM 2100L	General Chemistry I Laboratory	
CHEM 2200	General Chemistry II	
CHEM 2200L	General Chemistry II Laboratory	
HSCI 1200	Health and Society: An Ecological and Societal Approach	
HSCI 1200L	Health and Society: An Ecological and Societal Approach Lab	
Upper Division Electives (6 or more units from the following list):		6
HSCI 3010	Health and Human Sexuality	
HSCI 3201	Health Behavior	
HSCI 3202	Topics in Environmental and Occupational Health	
HSCI 3605	Cultural Practices and Cuisines	
HSCI 3605L	Cultural Practices and Cuisines Lab	
HSCI 4023	Health and Wellness of Older Adults	
HSCI 4050	Health Issues of Men	
HSCI 4206	Infectious Disease Burden in U.S.	
HSCI 4207	Chronic Disease Burden in U.S.	
HSCI 4208	Drug and Alcohol Issues	
HSCI 4209	Complementary and Alternative Medicine	
HSCI 4210	Cultural Competency	
HSCI 4211	Mental Health Issues in Public Health	
HSCI 4212	Topics about Special Populations	
HSCI 4214	Latinx Health	
HSCI 4220	Women's Health	
HSCI 5531	Bioterrorism and Emergency Response	
Total Units		**23**

Pre-Physician Assistant Concentration (28-30 units)

BIOL 2200	Microbiology for Allied Health Majors	4
BIOL 2230	Human Anatomy and Physiology I for Allied Health Majors	4
BIOL 2240	Human Anatomy and Physiology II for Allied Health Majors	4
CHEM 2100	General Chemistry I	4
CHEM 2100L	General Chemistry I Laboratory	1
CHEM 2200	General Chemistry II	4
CHEM 2200L	General Chemistry II Laboratory	1
CHEM 2400	Organic Chemistry I Lecture	3
One additional Biology course chosen from the list below):		3-5
BIOL 3050	Human Genetics and Genomics	
BIOL 3100	Cell Biology	
BIOL 3120	Molecular Biology	
BIOL 3300	Genetics	
BIOL 5370	Immunology	
Total Units		**28-30**

Bachelor of Science in Health Services Administration

The B.S. Degree in Health Services Administration is designed to prepare a diverse-student body for management roles in public, not-for-profit, and private health care settings, to enhance the quality and innovation in the delivery of health care services for all individuals.

Graduates from this program gain relevant work-related experiences and are:

1. Trained in health care management competencies including marketing, finance, human resources, and other related functions, with a working knowledge of operations, information systems, statistical analysis, and quality improvement, and
2. Prepared to enter the profession or a graduate program. This program aligns with certification standards of the Association of University Programs in Health Administration (AUPHA).

Note: For graduation, students must complete all upper-division courses required for the major with a grade of "C" (2.0) or better.

Completion of the requirements for the degree will also meet the following GE categories: Biological Science and Laboratory.

Although a few courses in this program may be offered in online or hybrid mode, most courses are only offered in-person.

Degree Requirements (65 units)

Total units required for graduation: 120 units

(Program code: HSAD)

Lower-division (16)		
ACCT 2110	Introductory Accounting I	3
ECON 2201	Principles of Microeconomics	3
HSCI 1200	Health and Society: An Ecological and Societal Approach	3
HSCI 1200L	Health and Society: An Ecological and Societal Approach Lab	1
HSCI 2202	Software Applications in the Health Sciences	3
HSCI 2203	Introduction to Statistics in Health Sciences	3
Upper-division (43)		
HSCI 3040	Introduction to Health Services Administration	3
HSCI 3060	Medical Care Organizations	3
HSCI 3080	Operations Management	3
HSCI 3205	Biostatistics for Health Science	3
HSCI 4036	Human Resource Management in Health Care	3
HSCI 4037	Information Systems & Financial Management in Health Care	3
HSCI 4055	Health Policy, Law, and Ethics	3
HSCI 4060	Strategic Planning and Marketing in the Health Care System	3
HSCI 4068	Research Methodology in Health Science	3
HSCI 4080	Leadership in Health Services Administration	3
HSCI 4089	Preparation for HSA Internship	1
HSCI 4202	Epidemiology	3
HSCI 4210	Cultural Competency	3
HSCI 5753	Internship in Health Services Administration	3
MGMT 3020	Organizational Behavior	3
Electives (6)		
Six units chosen from:		6
ECON 3314	Public Economics	
HSCI 3052	Principles of Environmental Health	
HSCI 3067	Human Diseases and Disorders	
HSCI 3203	Global Health	
HSCI 3207	Social Determinants of Health	
HSCI 3556	Housing, Institutions, and Land Use	
HSCI 4023	Health and Wellness of Older Adults	
HSCI 4052	Special Topics in Health Services Administration	
HSCI 4200	Health Administration	
HSCI 5010	Hospital Administration	
HSCI 5013	Managed Care Systems	
HSCI 5951	Independent Study	
HSCI 5952	Independent Study	
HSCI 5953	Independent Study	
Total Units		**65**

Bachelor of Science in Public Health

The Bachelor of Science in Public Health program prepares students for professional positions in public health agencies, community-based organizations, health care, tribal health, and international organizations. The curriculum is competency based in compliance with standards set by the Council on Education for Public Health and by the National Commission for Health Education Credentialing. Graduates of the program will be eligible to take the Certified Health Education Specialist (CHES) national examination administered by the National Commission for Health Education Credentialing.

Many of the courses in this program are offered in different modalities (in-person, hybrid, or online). All required courses in the program will be offered in-person at least once per year. At least one elective course in the program will be offered in-person each semester. At least 75% of lower-division courses in the program will be in-person and at least 60% of upper-division courses in the program will be in-person in during Fall and Spring semesters. It is not possible to take all of the program courses in online or hybrid mode.

Degree Requirements (65 units)

Total units required for graduation: 120

Note: All Health Science concentrations require grades of "C" (2.0) or better in all upper-division coursework with an HSCI prefix or any course approved for upper-division Health Science substitutions required in the major.

(Program Code: PBHL)

Lower-division requirements: (13)		
HSCI 1200	Health and Society: An Ecological and Societal Approach *	3
HSCI 1200L	Health and Society: An Ecological and Societal Approach Lab +	1
HSCI 2200	Introduction to Public Health	3
HSCI 2202	Software Applications in the Health Sciences	3
HSCI 2203	Introduction to Statistics in Health Sciences	3
or MATH 1201	Introduction to Statistical Thinking	
or MATH 1203	Stretch Introduction to Statistical Thinking B	
Upper-division requirements: (40)		
HSCI 3201	Health Behavior	3
HSCI 3202	Topics in Environmental and Occupational Health	3
HSCI 3203	Global Health	3
HSCI 3204	Public Health Nutrition	3
HSCI 3205	Biostatistics for Health Science	3
HSCI 3206	Public Health Law and Ethics	3

HSCI 3207	Social Determinants of Health	3
HSCI 3208	Introduction to Professional Development and Communication	3
HSCI 4200	Health Administration	3
HSCI 4202	Epidemiology	3
HSCI 4203	Public Health Program Planning and Implementation	3
HSCI 4204	Research Methods and Evaluation in Public Health	3
HSCI 4205	Advanced Professional Writing in Public Health	3
HSCI 4999	Preparation for Public Health Capstone	1
Capstone Experience: (3)		
Three units chosen from:		3
HSCI 5213	Community Service Project in Public Health	
HSCI 5758	Internship in Public Health	
HSCI 5970	Honors Thesis for Public Health	
Electives: (9)		
Nine units chosen from:		9
HSCI 3010	Health and Human Sexuality	
HSCI 4206	Infectious Disease Burden in U.S.	
HSCI 4207	Chronic Disease Burden in U.S.	
HSCI 4208	Drug and Alcohol Issues	
HSCI 4209	Complementary and Alternative Medicine	
HSCI 4210	Cultural Competency	
HSCI 4211	Mental Health Issues in Public Health	
HSCI 4212	Topics about Special Populations	
HSCI 4550	Health Aspects of Death and Dying	
HSCI 4552	Special Topics: International Perspectives on Stress Management	
HSCI 5531	Bioterrorism and Emergency Response	
HSCI 5951PH	Independent Study for Public Health	
HSCI 5952PH	Independent Study for Public Health	
HSCI 5953PH	Independent Study for Public Health	
Total Units		**65**

* Satisfies GE Biological Science requirement.
\+ Satisfies GE Laboratory requirement.

Bachelor of Science in Nutritional Science and Dietetics

Program restricted to San Bernardino Campus students.

Degree Requirements (81-82 units)

Total units required for graduation: 120 units

Note: For graduation, students must complete all upper-division courses required for the major with a grade of "C" (2.0) or better.

Completion of the requirements for the degree will also meet the following GE 2, 5A, 5B, 5C, and 3 lower division units from area 4.

In order to receive the Verification Statement from the Didactic Program in Dietetics (DPD), graduates must have a minimum overall GPA of 2.8; must receive a grade of B- (2.7) or higher in the 3000 and 4000-level DPD courses; and score of greater or equal to 80% on the summative exam in HSCI 4690. This Verification Statement is required for dietetic internship or supervised-practice program to become a registered dietitian/nutritionist (RDN) as well as to take the Nutrition and Dietetic Technician Registration (NDTR) exam. Starting January 1, 2024, Commission on Dietetic Registration (CDR) will require a minimum of a master's degree to be eligible to take the credentialing exam to become a RDN. Please contact Dr. Dorothy Chen-Maynard at dchen@csusb.edu for information and questions.

Lower Division Courses *		
HSCI 1100	Problem Solving Skills for Health Science	1
HSCI 1200	Health and Society: An Ecological and Societal Approach	3
HSCI 1200L	Health and Society: An Ecological and Societal Approach Lab	1
HSCI 2202	Software Applications in the Health Sciences	3
HSCI 2625	Nutrition and Dietetic Professional Career Pathways	1
BIOL 2200	Microbiology for Allied Health Majors	4
BIOL 2230	Human Anatomy and Physiology I for Allied Health Majors	4
BIOL 2240	Human Anatomy and Physiology II for Allied Health Majors	4
CHEM 2060	Survey of Organic and Biochemistry	4
CHEM 2060L	Survey of Organic and Biochemistry Lab	1
Choose one of the following two options		4-5
Option 1		
CHEM 2050	Survey of General Chemistry	
CHEM 2050L	Survey of General Chemistry Laboratory	
Option 2		
CHEM 2070	Fundamentals of General, Organic, and Biochemistry	
Choose one of the two courses		3
PSYC 1100	Introduction to Psychology	
SOC 1000	Introduction to Sociology	
Choose one of two courses* If GE Math is met, may take HSCI 2203 for statistics requirement		3
MATH 1201	Introduction to Statistical Thinking	
HSCI 2203	Introduction to Statistics in Health Sciences	
Upper Division Major courses (45)		
HSCI 3601	Fundamentals of Human Nutrition	3
HSCI 3602	Lifecycle Nutrition and Assessment	3
HSCI 3605	Cultural Practices and Cuisines	3
HSCI 3605L	Cultural Practices and Cuisines Lab	1
HSCI 3607	Nutrition Counseling, Assessment, and Research Applications	3
HSCI 3607L	Nutrition Counseling, Assessment, and Research Applications Lab	1

HSCI 3615	Food Science and Production	3
HSCI 3615L	Food Science and Production Lab	1
HSCI 4621	Foodservice Principles and Practice	3
HSCI 4621L	Foodservice Principles and Practice Lab	1
HSCI 4622	Foodservice Management	3
HSCI 4625	Dietetic Pathways and Processes	1
HSCI 4661	Human Metabolism and Nutritional Biochemistry	3
HSCI 4662	Advanced Nutrition and Topics	3
HSCI 4680	Public Health Nutrition in Dietetics	3
HSCI 4681	Medical Nutrition Therapy I	3
HSCI 4681L	Medical Nutrition Therapy I Lab	1
HSCI 4682	Medical Nutrition Therapy II	3
HSCI 4682L	Medical Nutrition Therapy II Lab	1
HSCI 4690	Senior Capstone	2
Total Units		**81-82**

* Some courses count for both GE and major.

Minor in Sustainable Food Systems

The minor in Sustainable Food Systems offers an in-depth exploration of the critical issues, principles, and practices that underlie the global pursuit of a more sustainable and equitable food production and distribution system. Through a multidisciplinary lens, students will examine the complex interplay of environmental, social, and economic factors that shape the current state of our food systems and explore innovative solutions for a more sustainable future. This program is offered in a hybrid required modality and includes online and in-person courses.

Minor Requirements (16 units)

HSCI 3671	Sustainable Food Systems	3
HSCI 3679	Experiential Learning in Food Systems +	6
HSCI 4675	Sustainable Food Systems Seminar	1
Six units chosen from the following:		6
HSCI 3600	Nutrition for Health	
HSCI 3204	Public Health Nutrition	
HSCI 3203	Global Health	
HSCI 3605	Cultural Practices and Cuisines	
HSCI 3052	Principles of Environmental Health	
HSCI 3644	Global Nutrition	
HSCI 3615	Food Science and Production	
HSCI 3558	Water Quality and Pollution Control	
HSCI 1200	Health and Society: An Ecological and Societal Approach	
HSCI 1200L	Health and Society: An Ecological and Societal Approach Lab	
HSCI 5530	Food-Borne Illnesses and Their Prevention	
HSCI 3051	Health and Human Ecology	
BIOL 2180	Sustainable Agriculture	
GEOL 3700	Groundwater Hydrology	
GEOL 2040	Water in the West	
GEOL 3020	Natural Disasters	
GEOL 3040	Energy and the Environment	
GEOG 1650	World Regions and Peoples	
GEOG 3040	Urban Geography	
GEOG 3045	Global Cities	
GEOG 3050	Economic Geography	
GEOG 3501	Environmental Sustainability	
GEOG 3701	Environmental Policy and Impact Assessment	
GEOG 4710	Water Wars	
GEOG 4750	Ecosystem Assessment	
GEOG 4360	Climate Change	
GEOG 4050	Geography of California	
SPAN 3051	Culture, Health, and Food in Latin America	
Total Units		**16**

\+ Course must be taken twice totaling six units.

Certificate in Dietetic Internship

The Dietetic Internship is accredited by the Accreditation Council for Education of Nutrition and Dietetics (ACEND). The Certificate in Dietetic Internship allows interns to complete the 1,000 supervised-practice hours, under the approved preceptors at selected rotation sites, for eligibility to complete the registration exam administered by the Commission on Dietetic Registration (CDR). The graduates must also complete a graduate degree and other program requirements along with the certificate in order for the certificate (Verification Statement for Dietetic Internship, VSDI) can be issued by the Dietetic Internship (DI) Director. The Dietetic Internship Director will submit the documents to CDR after completion of the certificate program and a masters degree for interns to register for the certification exam. Successful completion of the certification exam allows the graduate to practice as a Registered Dietitian Nutritionist (RDN).

The 1,000 supervised-practice hours may be completed in 11-months as a full time intern or 22-months as a part time intern. In addition to 1,000 unpaid supervised-practice hours, interns are required to attend a weekly didactic course under HSCI 6753A & 6753B (3.5 units each) for the semesters they are completing their supervised-practice hours. The preceptors of the site will supervise the intern and provide a rating of their completed work at the end of the rotation at their site. There is a one-time internship fee of $2,500 for program expenses to be charged at the start of the certificate program.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (7 units)

HSCI 6753A	Advance Internship in Dietetics - Part I	3.5
HSCI 6753B	Advance Internship in Dietetics - Part II	3.5
Total Units		**7**

Certificate in Health Equity

This certificate is designed as an interdisciplinary certificate that provides a background in disciplines that relate to the social and behavioral determinants of health. Determinants of health are social, cultural, political, and economic factors coupled with individual factors that impact population as well as individual health outcomes. Socio-economic (upstream) factors are shaped by the distribution of money, power and resources at global, national and local levels, which are themselves influenced by policy choices (e.g. policies to promote economic development and reduce poverty; policies to promote healthier homes, neighborhoods, schools, and workplaces; housing policy; policies affecting access to health care; education policy; social policy; community empowerment; social capital; social inclusion/ exclusion; transportation policy; job training programs; food policy; health system policy and more). Individual (downstream) factors are those of behavior/lifestyle; gender; genes/family history, stress, income, education, food insecurity, access to health care, and housing.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (18 units)

Core Courses (6)		
Six units chosen from:		6
ANTH 3605	Anthropology of Health	
HSCI 3200	Foundations of Public Health Education	
SOC 3550	Medical Sociology	
PSYC 3318	Health Psychology	
Measurement Courses (3)		
Three units chosen from:		3
HSCI 4068	Research Methodology in Health Science	
HSCI 4204	Research Methods and Evaluation in Public Health	
SOC 3010	Qualitative Analysis & Field Research	
SOC 3020	Introduction to Community-Based Research	
SOC 3070	Quantitative Analysis & Survey Research	
PSYC 3311	Research Methods in Psychology	
Elective Courses (6)		
Six units chosen from:		6
COMM 4301	Gender, Race, and Class in Media	
COMM 4302	Latinx, Media, and Cultures	
COMM 5267	Advanced Topics in Relational and Organizational Communication	
HSCI 3207	Social Determinants of Health	
HSCI 3206	Public Health Law and Ethics	
HSCI 4206	Infectious Disease Burden in U.S.	
HSCI 4207	Chronic Disease Burden in U.S.	
SOC 3560	Sociology of Mental Health	
SOC 4100	Sociology of Race and Ethnicity	
SOC 4180	Social Welfare in the U.S.	
SOC 4320	Political Sociology	
SOC 4240	Social Networks	
SOC 4440	Sociology of Sex and Gender	
SOC 5600	Social Determinants of Health	
Capstone Experience (3)		
HSCI 5953PH	Independent Study for Public Health	3
Total Units		**18**

Post-Graduate Certificate in Health Services Administration

The Post Graduate Certificate in Health Services Administration is designed for national and international professionals seeking to enhance their understanding of healthcare management and policy. This program provides the foundational knowledge to navigate the complexities of the healthcare system, preparing them to take on leadership roles in various health service settings. It is comprised of 16-semester units and designed for national and international students interested in careers in these fields or as a foundation for further academic study

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit

or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (16 units)

HSCI 6010	Administration of Health Care Programs	4
HSCI 6020	Management, Organization and Planning	4
HSCI 6150	Health Law and Medical Ethics	4
HSCI 6160	Strategic Planning and Evaluation	4
Total Units		**16**

Certificate in Health Services Administration

The Health Services Administration Certificate is designed for students interested in: 1) gaining knowledge related to the U.S. health care delivery system and management roles in public, not-for-profit, and private health care settings, and 2) developing health care management competencies for professional development.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (37 units)

Required courses (37)		
ACCT 2110	Introductory Accounting I	3
ECON 2201	Principles of Microeconomics	3
HSCI 1200	Health and Society: An Ecological and Societal Approach	3
HSCI 1200L	Health and Society: An Ecological and Societal Approach Lab	1
HSCI 2202	Software Applications in the Health Sciences	3
HSCI 2203	Introduction to Statistics in Health Sciences	3
HSCI 3040	Introduction to Health Services Administration	3
HSCI 3060	Medical Care Organizations	3
HSCI 4060	Strategic Planning and Marketing in the Health Care System	3
HSCI 4080	Leadership in Health Services Administration	3
MGMT 3020	Organizational Behavior	3
Six units chosen from:		6
HSCI 3080	Operations Management	
HSCI 3203	Global Health	
HSCI 3207	Social Determinants of Health	
HSCI 4023	Health and Wellness of Older Adults	
HSCI 4036	Human Resource Management in Health Care	
HSCI 4037	Information Systems & Financial Management in Health Care	
HSCI 4055	Health Policy, Law, and Ethics	
HSCI 4210	Cultural Competency	
HSCI 5010	Hospital Administration	
HSCI 5013	Managed Care Systems	
Total Units		**37**

Post-Graduate Certificate in Public Health

The Certificate in Public Health provides graduate-level instruction and is designed for national and international professionals seeking to enhance their expertise in key public health areas, students interested in careers in these fields, or as a foundation for further academic study. This program offers an advanced understanding of biostatistics, epidemiology, public health policy, and health education, equipping participants with the skills necessary to address complex health challenges. The certificate is comprised of 16 semester units.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (16 units)

HSCI 6210	Advanced Biostatistics for Public Health	4
HSCI 6220	Advanced Topics in Epidemiology	4
HSCI 6250	Advanced Topics in Public Health Policy and Administration	4
HSCI 6260	Health Education Program Planning and Evaluation	4
Total Units		**16**

Department of Kinesiology

Health and Physical Education Building, Room 120
(909) 537-5349 Department of Kinesiology website (https://www.csusb.edu/kinesiology/)

The Kinesiology undergraduate program at CSUSB provides a comprehensive education in the science of human movement. Students can choose from four concentrations each tailored to specific career goals within the field, including

- Exercise Science
- Allied Health Professions
- Physical Education and Adapted Physical Education
- Health Promotion

The curriculum integrates theoretical knowledge with practical experience through laboratory work, internships, and community engagement. The program emphasizes the development of critical thinking, ethical decision-making, and effective communication skills essential for success in the diverse field of kinesiology. Faculty members are dedicated professionals who bring diverse expertise and research interests to the classroom, ensuring a dynamic and supportive learning environment. Graduates are well-prepared for various professional roles, further studies, and certifications in health, fitness, rehabilitation, and education.

Departmental Honors

A graduating senior will be awarded departmental honors in kinesiology after meeting the following requirements:

1. Earned a 3.5 grade point average in all Kinesiology course work;
2. Earned a 3.0 ("B") grade point average overall;
3. Over one-half of the course work for the Kinesiology major must be taken at California State University, San Bernardino.

Current Faculty

V Ambati, Associate Professor of Kinesiology
B.E. 2007, Osmania University, India
M.S. 2009, University of South Florida
Ph.D. 2014, University of Texas at El Paso

Nathaniel Bodell, Associate Professor of Kinesiology
B.S. 2013, California State University, San Bernardino
M.S. 2015, California Baptist University
Ph.D. 2019, University Of Nevada, Las Vegas

Zhaojing Chen, Associate Professor of Kinesiology
B.S. 2011, Shanghai University of Sport
M.A. 2013, University of Oklahoma
Ph.D. 2017, University of Oklahoma

James Clover, Lecturer in Kinesiology
B.S. 1980, Ohio University Main Campus
M.Ed. 1989, Azusa Pacific University

Nicole Dabbs, Professor of Kinesiology, Chair
B.S. 2008, M.S. 2010, California State University, Fullerton
Ph.D. 2013, University of Mississippi - Main Campus

Sarah Dunn, Professor of Kinesiology
B.S. 1998, Pepperdine University
M.S. 2004, University of Sydney
Ph.D. 2009, University of New South Wales

Guillermo Escalante, Professor of Kinesiology, Associate Dean
B.S. 1997, M.B.A. 1999, University of LaVerne, CA
D.S.C 2012, Rocky Mountain University of Health Professions

Warren Forbes, Assistant Professor of Kinesiology
B.S. 2015, California State University, Fullerton
M.S. 2018, California State University, Fullerton
Ph.D. 2023, University of Nevada, Las Vegas

Christopher Gentry, Professor of Kinesiology
B.S. 2005, Southern Illinois University
M.S. 2011, Southern Illinois University
Ph.D. 2014, University of Illinois

Bryan Haddock, Professor of Kinesiology
B.A. 1986, The Master's College
M.S. 1988, Ph.D. 1998, Loma Linda University
Dr. PH 1997, Loma Linda University

Christopher Hill, Associate Professor of Kinesiology
B.S. 2011, Louisiana State University
M.S. 2014, Miami University

Ph.D. 2018, Michigan State University

April Karlinsky, Associate Professor of Kinesiology
B.S. 2019, University of Ottawa
Ph.D. 2019, University of British Columbia

Jason Ng, Professor in Kinesiology
B.S. 2009, M.S. 2011, California State University, Fullerton
Ph.D. 2015 The University of Alabama

Lindsey Nowland, Assistant Professor of Kinesiology
B.S. Radford University
M.Ed. 2020, University of Virginia
Ph.D. 2024, Old Dominion University

Hyun-Kyoung Oh, Professor of Kinesiology
B.S. 1998, Dongduk Women's University, Seoul, Korea
M.S. 2000, Seoul National University, Seoul, Korea
Ph.D. 2006, Indiana University, Bloomington

Wagner Prado, Associate Professor of Kinesiology
B.S. 1999, College of Santo Andre
M.S. 2004, Federal University of Sao Carlos
Ph.D. 2007, Federal University of Sao Paulo

Amanda Rymal, Professor of Kinesiology
B.A. 2005, Laurentian University, Ontario
M.A. 2007, University of Ottawa
Ph.D. 2011, University of Ottawa

Hosung So, Professor of Kinesiology
B.S. 1993, M.S. 1995, Chug-Ang University, Seoul Korea
Ph.D. 2002, University of Nevada, Las Vegas

Sang Ouk Wee, Associate Professor of Kinesiology
B.S. 2000, Korea University
M.E. 2004, Auburn University
M.S. 2012, California State University, Northridge
Ph.D. 2017, University of Illinois at Chicago

Emeriti

Sarah Boeh

Jerry Freischlag

Christopher C. Grenfell

Carolyn Martin

C. Michael O'Gara

Gregory L. Price

Reginald Price

Terry L. Rizzo

A.I. Clifford Singh

Linda D. Wilkin

Undergraduate Degrees

Bachelor of Science

- Kinesiology (p. 271)
  with concentrations in:
  - Allied Health Professions
  - Exercise Science
  - Physical Education and Adapted Physical Education
  - Health Promotion

Minors

Kinesiology (p. 274)

Bachelor of Science in Kinesiology

The Kinesiology undergraduate program at CSUSB provides a comprehensive education in the science of human movement. Students can choose from four concentrations, including Exercise Science (ES), Allied Health Professions (AHP), Physical Education and Adapted Physical Education (PEAPE), and Health Promotion (HP), each tailored to specific career goals within the field. The curriculum integrates theoretical knowledge with practical experience through laboratory work, internships, and community engagement. The program emphasizes the development of critical thinking, ethical decision-making, and effective communication skills essential for success in the diverse field of kinesiology. Faculty members are dedicated professionals who bring diverse expertise and research interests to the classroom, ensuring a dynamic and supportive learning environment. Graduates are well-prepared for various professional roles, further studies, and certifications in health, fitness, rehabilitation, and education.

The Kinesiology Department offers all core courses at the Palm Desert Campus and fully offers the Exercise Science and Health Promotion Concentration at the Palm Desert Campus (PDC) for a 4-year degree completion program.

Note: Although some courses in this program may be offered in online or hybrid mode, most courses are only offered in-person. Students should consult an adviser for supporting course work offered for all concentrations in the Kinesiology major.

Allied Health Professions (AHP)

The concentration in Allied Health Professions (AHP) is for people interested in eventual graduate education in allied health professions (e.g., physical therapy, occupational therapy, physician’s assistant, athletic training, orthotics and prosthetics specialist, medical or dental school) after graduation from CSUSB. CSUSB Kinesiology AHP students will engage in a rigorous course of study in Kinesiology, Biology, Chemistry, and Physics. This concentration offers undergraduate students essential pre-requisite courses for eventual graduate study in a preferred AHP. It is strongly recommended that students in the Allied Health Professions Concentration maintain a minimum 3.20 GPA to be prepared for graduate school applications.

Exercise Science (ES)

The Exercise Science (ES) concentration is for people interested in a variety of health/fitness-related fields including but not limited to: clinical exercise physiologist, personal trainer, cardiac rehab, wellness, strength and conditioning specialist, sport psychologist, etc. This concentration prepares undergraduate students to work in a variety of health/fitness related fields.

Physical Education and Adapted Physical Education (PEAPE)

The Physical Education and Adapted Physical Education (PEAPE) concentration is for people interested in becoming physical education teachers and/or adapted physical education teachers. The concentration prepares undergraduate students to go into the teacher education credential program. Formerly known as Pedagogy concentration. The two units from the KINE core count toward the PEAPE concentration. Students in the PEAPE concentration are eligible to obtain the added authorization (http://bulletin.csusb.edu/colleges-schools-departments/education/teacher-education-foundations/adapted-physical-education-added-authorization/) for Adapted Physical Education during the credential program through the college of education.

Health Promotion (HP)

The Health Promotion (HP) concentration is for people interested in a broad spectrum of health-related careers with the goal to help others improve their overall health and well-being. This concentration prepares students to work in areas such as, but not limited to, health education and promotion, school-based health, workplace wellness, community health, and health consulting.

Degree Requirements (72-79)

Total units required for graduation (120)

Lower-division requirements (20)

BIOL 2230	Human Anatomy and Physiology I for Allied Health Majors	4
BIOL 2240	Human Anatomy and Physiology II for Allied Health Majors *	4
GE Mathematical Concepts and Quantitative Reasoning *		3
It is strongly suggested for ES and PEAPE concentration students to take MATH 1301. AHP concentration students must take MATH 1601 or MATH 2210.		
Complete a minimum of 2 units from the following courses:		2
PEAPE concentration students must take KINE 2613 to meet this requirement		
KINE 1010A	Individual and Dual Activities: Badminton	
KINE 1010B	Individual and Dual Activities: Pickleball	
KINE 1010D	Individual and Dual Activities: Bowling	
KINE 1010E	Individual and Dual Activities: Tennis	
KINE 1140A	Physical Fitness and Conditioning Activities: Body Conditioning	
KINE 1140B	Physical Fitness and Conditioning Activities: Independent Activity	
KINE 1140C	Physical Fitness and Conditioning Activities: Jogging	
KINE 1140D	Physical Fitness and Conditioning Activities: Weight Training	
KINE 1140E	Physical Fitness and Conditioning Activities: Yoga	
KINE 1200A	Somatic and Martial Arts Activities: Aikido	
KINE 1200E	Somatic and Martial Arts Activities: Karate	
KINE 1200F	Somatic and Martial Arts Activities: Self-Defense	
KINE 1200G	Somatic and Martial Arts Activities: Cardio-Arts	
KINE 1200I	Somatic and Martial Arts Activities: Pilates	
KINE 1210A	Team Activities: Basketball	
KINE 1210C	Team Activities: Soccer	
KINE 1210F	Team Activities: Volleyball	
KINE 1370A	Aquatic Activities: Swimming	
KINE 1370E	Aquatic Activities: Advanced Swimming for Fitness	
KINE 1490	Independent Activity Project	
KINE 1500A	Dance Activities: Aerobic	
KINE 1500B	Dance Activities: Low-Impact Aerobic	
KINE 1500C	Dance Activities: Step Aerobic	
KINE 1500D	Dance Activities: Ballet	
KINE 1500F	Dance Activities: Jazz	
KINE 1500J	Dance Activities: Sampler	
KINE 1700	Special Topics Activities	
KINE 2613	Teaching/Coaching Principles for Gymnastics and Rhythmic Activities +	
KINE 2100	Orientation to Kinesiology	3
KINE 2510	Research Seminar in Kinesiology	1
KINE 2700	Introduction to Fitness and Programming	3

Upper-division requirements (22)

KINE 3050	Disability, Society and Physical Activity #	3
KINE 3200	Principles of Human Movement	3
KINE 3400	Psychology and Sociology of Human Movement	3
KINE 3500	Motor Development Across the Lifespan	3
KINE 3700	Statistics in Kinesiology %	3
KINE 3800	Exercise Physiology	4
KINE 4100	Motor Learning and Control	3

Concentration (30-37)

Students must satisfy the requirements of one of the concentrations listed below:	30-37
Total Units	**72-79**

* Counts towards GE-2: Mathematical Concepts and Quantitative Reasoning.
\+ PEAPE only.
\# 3 units count towards GE UD-4: Upper-division Social and Behavioral Sciences.
% Counts toward one WI course.

Concentrations (30-37 units)

Allied Health Professions Concentration

(Program Code: KAHP)

Required Courses: (25)

PSYC 1100	Introduction to Psychology *	3

CHEM 2100	General Chemistry I #	4
CHEM 2100L	General Chemistry I Laboratory	1
CHEM 2200	General Chemistry II	4
CHEM 2200L	General Chemistry II Laboratory	1
KINE 4200	Seminar in Kinesiology	1
KINE 4700	Clinical Exercise Physiology	4
KINE 4800	Biomechanics	4
Choose 3 units from the following courses:		3
PSYC 2201	Developmental Psychology	
PSYC 3390	Abnormal Psychology	
Electives: (12)		
Choose 12 units from the following courses:		12
PHYS 2000	Introduction to Physics I	
PHYS 2000L	Introduction to Physics I Lab	
PHYS 2010	Introduction to Physics II	
PHYS 2010L	Introduction to Physics II Lab	
PHYS 2500	General Physics I	
PHYS 2500L	General Physics I Lab	
PHYS 2510	General Physics II	
PHYS 2510L	General Physics II Lab	
BIOL 2010	Principles of Biology I	
BIOL 2020	Principles of Biology II	
BIOL 2200	Microbiology for Allied Health Majors	
BIOL 3050	Human Genetics and Genomics	
BIOL 3300	Genetics	
CHEM 2400	Organic Chemistry I Lecture	
CHEM 2400L	Organic Chemistry I Laboratory	
CHEM 2500	Organic Chemistry II	
CHEM 2500L	Organic Chemistry II Laboratory	
KINE 2200	Medical Terminology	
KINE 2300	Prevention and Care of Athletic Injuries	
KINE 2500	Observational Field Experience in Kinesiology	
KINE 3600	Physical Activity and Aging	
KINE 3810	Sport and Exercise Nutrition	
KINE 4500	Principles of Strength and Conditioning	
KINE 4400	Exercise Testing and Prescription	
KINE 4600	EKG Interpretation and Stress Testing	
Total Units		**37**

* Counts towards GE-4: Social and Behavioral Sciences.
# 3 units count towards GE-5A: Physical Science.

Exercise Science

May be completed at the Palm Desert Campus.

(Program Code: KEXS)

Required Courses (18)		
KINE 2300	Prevention and Care of Athletic Injuries	3
KINE 3600	Physical Activity and Aging	3
KINE 3810	Sport and Exercise Nutrition	3
KINE 4200	Seminar in Kinesiology	1
KINE 4400	Exercise Testing and Prescription	4
KINE 4800	Biomechanics	4
Electives (12)		
Choose 12 units from the following courses:		12
KINE 2200	Medical Terminology	
KINE 2400	Applications of Technology in Kinesiology	
KINE 2500	Observational Field Experience in Kinesiology	
KINE 3250	Exercise Techniques for Resistance Training	
KINE 3900	Health and Fitness Business Management	
KINE 4300	Environmental Exercise Physiology	
KINE 4500	Principles of Strength and Conditioning	
KINE 4600	EKG Interpretation and Stress Testing	
KINE 4700	Clinical Exercise Physiology	
Total Units		**30**

Physical Education and Adapted Physical Education

(Program Code: KPEC)

Required Courses: (36)		
KINE 2540	Field Work in Physical Education and Adapted Physical Education	2
KINE 2612	Teaching/Coaching Principles for Swimming and Aquatics	2
KINE 2613	Teaching/Coaching Principles for Gymnastics and Rhythmic Activities	2
KINE 2630	Teaching/Coaching Principles for Individual/Dual Sport	3
KINE 2640	Teaching/Coaching Principles for Team Sports	3
KINE 2650	Teaching/Coaching Principles for Fundamental Movement, Nontraditional Games	3
KINE 3100	Introduction to Adapted Physical Activity	3
KINE 3300	Movement Skill Assessment for Individuals with Disabilities	3
KINE 3320	The Nature and Issues Concerning Individuals with Disabilities	3
KINE 3330	Applied Behavior Management	3
KINE 4720	Program Design in Physical Education	3
KINE 4730	Instructional Strategies in Physical Education	3
KINE 4900	Seminar in Physical Education and Adapted Physical Education	3
Total Units		**36**

Health Promotion

May be completed at the Palm Desert Campus.

(Program Code: KHPR)

Required Courses (17)		
Choose 1 unit from the following courses:		1
KINE 1010A	Individual and Dual Activities: Badminton	
KINE 1010B	Individual and Dual Activities: Pickleball	
KINE 1010E	Individual and Dual Activities: Tennis	
KINE 1010D	Individual and Dual Activities: Bowling	
KINE 1140A	Physical Fitness and Conditioning Activities: Body Conditioning	
KINE 1140B	Physical Fitness and Conditioning Activities: Independent Activity	
KINE 1140C	Physical Fitness and Conditioning Activities: Jogging	
KINE 1140D	Physical Fitness and Conditioning Activities: Weight Training	
KINE 1140E	Physical Fitness and Conditioning Activities: Yoga	
KINE 1200A	Somatic and Martial Arts Activities: Aikido	
KINE 1200E	Somatic and Martial Arts Activities: Karate	
KINE 1200F	Somatic and Martial Arts Activities: Self-Defense	
KINE 1200G	Somatic and Martial Arts Activities: Cardio-Arts	
KINE 1200I	Somatic and Martial Arts Activities: Pilates	
KINE 1210A	Team Activities: Basketball	
KINE 1210C	Team Activities: Soccer	
KINE 1210F	Team Activities: Volleyball	
KINE 1370A	Aquatic Activities: Swimming	
KINE 1370E	Aquatic Activities: Advanced Swimming for Fitness	
KINE 1490	Independent Activity Project	
KINE 1500A	Dance Activities: Aerobic	
KINE 1500B	Dance Activities: Low-Impact Aerobic	
KINE 1500C	Dance Activities: Step Aerobic	
KINE 1500D	Dance Activities: Ballet	
KINE 1500F	Dance Activities: Jazz	
KINE 1500J	Dance Activities: Sampler	
KINE 1700	Special Topics Activities	
Choose 3 units from the following courses:		3
KINE 3810	Sport and Exercise Nutrition	
HSCI 3600	Nutrition for Health	
Complete the following courses		
KINE 3600	Physical Activity and Aging	3
HSCI 3201	Health Behavior	3
KINE 4200	Seminar in Kinesiology	1
HSCI 3207	Social Determinants of Health	3
HSCI 4202	Epidemiology	3
Electives (13)		
Choose 13 units from the following courses:		13
KINE 2000	CPR and First Aid	
KINE 2200	Medical Terminology	
KINE 2400	Applications of Technology in Kinesiology	
KINE 2500	Observational Field Experience in Kinesiology	
KINE 3900	Health and Fitness Business Management	
CHEM 2070	Fundamentals of General, Organic, and Biochemistry	
BIOL 2200	Microbiology for Allied Health Majors	
HSCI 3206	Public Health Law and Ethics	
HSCI 4207	Chronic Disease Burden in U.S.	
HSCI 4212	Topics about Special Populations	
HSCI 4208	Drug and Alcohol Issues	
PSYC 2201	Developmental Psychology	
Total Units		**30**

Minor in Kinesiology

A minor in Kinesiology will require a person to take 26 units total, 18 units being KINE classes and at least 9 units of Upper Division KINE classes.

Requirements for a minor in Kinesiology (26 units)

Foundation Courses (14)		
BIOL 2230	Human Anatomy and Physiology I for Allied Health Majors	4
BIOL 2240	Human Anatomy and Physiology II for Allied Health Majors (*GE Category B2)	4
KINE 2500	Observational Field Experience in Exercise Science and Allied Health Professions	2
or KINE 2540	Field Work in Physical Education and Adapted Physical Education	
KINE 2100	Orientation to Kinesiology	3
Complete a minimum of one unit:		1
KINE 1010A	Individual and Dual Activities: Badminton	
KINE 1010E	Individual and Dual Activities: Tennis	
KINE 1140A	Physical Fitness and Conditioning Activities: Body Conditioning	
KINE 1140C	Physical Fitness and Conditioning Activities: Jogging	
KINE 1140D	Physical Fitness and Conditioning Activities: Weight Training	
KINE 1140E	Physical Fitness and Conditioning Activities: Yoga	
KINE 1200A	Somatic and Martial Arts Activities: Aikido	
KINE 1200E	Somatic and Martial Arts Activities: Karate	
KINE 1200F	Somatic and Martial Arts Activities: Self-Defense	
KINE 1200G	Somatic and Martial Arts Activities: Cardio-Arts	

KINE 1200I	Somatic and Martial Arts Activities: Pilates	
KINE 1210A	Team Activities: Basketball	
KINE 1210C	Team Activities: Soccer	
KINE 1210F	Team Activities: Volleyball	
KINE 1370A	Aquatic Activities: Swimming	
KINE 1370E	Aquatic Activities: Advanced Swimming for Fitness	
KINE 1490	Independent Activity Project	
KINE 1500A	Dance Activities: Aerobic	
KINE 1500B	Dance Activities: Low-Impact Aerobic	
KINE 1500C	Dance Activities: Step Aerobic	
KINE 1500D	Dance Activities: Ballet	
KINE 1500F	Dance Activities: Jazz	
KINE 1500J	Dance Activities: Sampler	
Kinesiology Electives: (12)		
Choose a minimum of 12 units:		12
KINE 2700	Introduction to Fitness and Programming	
KINE 3100	Introduction to Adapted Physical Activity	
KINE 3200	Principles of Human Movement	
KINE 3400	Psychology and Sociology of Human Movement	
KINE 3500	Motor Development Across the Lifespan	
KINE 3810	Sport and Exercise Nutrition	
KINE 4100	Motor Learning and Control	
Total Units		**26**

Department of Mathematics

Jack Brown Hall, Room 370
(909) 537-5361 Department of Mathematics website (http://www.csusb.edu/mathematics/)

The Department of Mathematics offers a Bachelor of Arts degree and a Bachelor of Science degree. The Bachelor of Arts degree is appropriate for students pursuing a mathematics-related career. The Bachelor of Science degree is appropriate for students pursuing a career in a mathematics-intensive field. The Bachelor of Science degree has three concentrations: general mathematics, applied mathematics, and teaching mathematics.

In addition to our undergraduate degree programs, the department offers a minor in mathematics, a certificate in Introductory Mathematics, and a certificate in Introductory Actuarial Science.

The department also offers a Master of Arts degree designed for those wishing to pursue a career in teaching mathematics at the community college level or those wishing to pursue a higher degree in mathematics or a related field.

In many ways mathematics functions as a universal language in today's global culture. Upper-division students are encouraged to participate in the California State University's International Programs (p. 14).

The department's Center for Enhancement of Mathematics Education (https://www.csusb.edu/ceme/) organizes many activities aimed at improving mathematics teaching and learning in K-12 schools. We encourage undergraduates interested in mathematics teaching careers to acquaint themselves with these programs.

Preparing for Teaching Credential Programs

One of the requirements to enter the Single Subject Credential Program is verification of subject matter competency. For mathematics, to be best prepared for the credential program and future teaching, students should complete the requirements of the B.S. in Mathematics, Teaching Mathematics Concentration with a C or better in all required math courses. If students choose to instead complete a different Mathematics degree program, then it is strongly recommended that students consult with a faculty advisor to select appropriate math elective courses. If a student completes a degree in another field but still wants to earn a Single Subject Credential in Mathematics, then the student must pass the Mathematics CSET Subtests I, II and III or the equivalent coursework as approved by the Mathematics Department. Other prerequisites of the teacher education program must be met, including a minimum GPA requirement.

Important: verifying subject matter competency is only one of several requirements for admission to the Single Subject Credential Program. Students interested in that program must refer to the Program Admissions Advising page on the College of Education website or contact College of Education Student Services in CE-102 for a complete and up-to-date list of requirements. We recommend doing so as soon as possible, since some items may take time to complete.

Departmental Honors

The department faculty will determine whether a student is to be awarded departmental honors upon graduation. The criteria will be:

1. A grade point average of at least 3.5 in all mathematics courses taken at this university and counted toward fulfilling requirements of the mathematics major.
2. MATH 5953, completed with a grade of "A-" or better, and culminating in a presentation to the department.

Current Faculty

Jeremy Aikin, Professor of Mathematics
B.S. 2003, University of California, Riverside
M.S. 2005, Ph.D. 2009, Louisiana State University

Hani Aldirawi, Associate Professor of Mathematics
B.A. 2011
M.S. 2015
Ph.D. 2020, University of Illinois at Chicago

Steve Balady, Associate Professor of Mathematics
B.S. 2008, M.A. 2011, Ph.D. 2017, University of Maryland College Park

Hector Banos Cervantes, Assistant Professor of Mathematics
B.S. Universidad Autonoma de Queretaro
M.S., Ph.D. 2019, University of Alaska Fairbanks

Corey M. Dunn, Professor of Mathematics
B.S. 2000, Pacific Lutheran University
M.S. 2002, Ph.D. 2006, University of Oregon

Gabriel Elvin, Assistant Professor of Mathematics
B.S. 2017, University of California-Los Angeles
M.S. 2019, Ph.D. 2022, University of California-Riverside

Hajrudin Fejzic, Professor of Mathematics
B.S. 1987, University of Sarajevo, Sarajevo
Ph.D. 1992, Michigan State University

Rui Hu, Assistant Professor of Mathematics
Ph.D. 2003, University of California, Davis

Madeleine Jetter, Professor of Mathematics, Chair, Chair
B.A. 1999, Columbia University
M.A. 2001, Ph.D. 2007, University of California, Los Angeles

Cory Johnson, Professor of Mathematics
B.S. 2009, University of Redlands
Ph.D. 2014, Colorado State University

Yuichiro Kakihara, Professor of Mathematics
B.S. 1974, M.S. 1976, Dr. Sci. 1985, Tokyo Institute of Technology, Japan

Youngsu Kim, Associate Professor of Mathematics
B.A. 2006
Ph.D. 2014, Purdue University

Giovanna Llosent, Professor of Mathematics
B.A. 1999, University of Costa Rica
M.S. 2006, Ph.D. 2007, University of Iowa

Min-Lin Lo, Professor of Mathematics
B.S. 1997, National Tsing-Hua University, Taiwan
M.A. 2000, Ph.D. 2004, State University of New York at Buffalo

Dalton Marsh, Associate Professor of Mathematics
B.A. 2012, Alfred University
M.A. 2014, SUNY at Albany
M.A. 2015, Union Graduate College

M.S. 2019, Ph.D. 2020, University of New Hampshire

Shawnee L. McMurran, Professor of Mathematics
B.S. 1985, M.S. 1987, Ph.D. 1991, University of California, Riverside

Bronson Morningstar, Associate Professor of Mathematics
B.A. 2009, M.A. 2011, California State University, San Bernardino
Ph.D. 2017, University of Oregon

Suthakaran Ratnasingam, Associate Professor of Mathematics
B.S. 2010
M.S. 2015, University of Nebraska, Omaha
Ph.D. 2020

Lynn Scow, Professor of Mathematics
B.A. 2004, Ph.D. 2010, University of California, Berkeley

Rolland Trapp, Professor of Mathematics
B.A. 1984, Knox College
M.A. 1985, Ph.D. 1990, Columbia University

Laura J. Wallace, Professor of Mathematics
B.S. 1991, California State Polytechnic University, Pomona
M.S. 1992, Ph.D. 1998, University of California, Riverside

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Belisario Ventura

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Peter D. Williams

Undergraduate Degrees

Bachelor of Arts

Mathematics (p. 279)

Bachelor of Science

Mathematics (p. 279)
with concentrations in:

- General Mathematics
- Applied Mathematics
- Teaching Mathematics

Graduate Degrees

Master of Arts

- Mathematics (p. 277)

Minor

- Mathematics (p. 281)
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Certificates

- Introductory Actuarial Science (p. 283)
- Introductory Mathematics (p. 283)

Master of Arts in Mathematics

The Master of Arts degree in Mathematics is a flexible program that allows students to tailor their studies to individual career goals. It emphasizes mathematical content courses and communication of mathematics.
It is appropriate not only for college teaching but also for students considering further graduate work or work in industry. There are two possible culminating experiences: a thesis, or, a set of comprehensive exams. See below for more information on these.

Admission to the Program

In addition to the general requirements of the university, which include a baccalaureate degree from an accredited college, specific requirements for admission to the program are:

1. Successful completion with a grade of at least "B" (3.0) of course work in abstract algebra, real analysis, in addition to upper division course work in pure, applied, and advanced mathematics deemed equivalent to the core of the mathematics major at California State University, San Bernardino. More specifically, course work in pure mathematics must include one of number theory, geometry, combinatorics, or graph theory. Course work in applied mathematics must include one of ordinary differential equations, numerical analysis, Fourier analysis, or mathematical modeling. Course work in advanced mathematics must include one of topology, complex analysis, or differential geometry. Substitutions may be made in certain circumstances at the discretion of the MA coordinator. In addition, an overall GPA of at least 3.0 is required;
2. In some cases, students who do not meet these criteria may be admitted as conditionally classified graduate students following review by the Department of Mathematics Graduate Committee;
3. Submission of a completed M.A. in Mathematics application form, including all undergraduate transcripts;
4. Three letters of recommendation submitted to the Department of Mathematics main office;
5. A letter of not more than three pages, outlining background, interest in this program, and career goals.

Advising

Each graduate student is encouraged to seek advising information from the Department of Mathematics either before enrolling or soon after being admitted to the program where they will develop an appropriate course of study based on their preparation and interests. The specific program must be approved by the department graduate committee at Advancement to Candidacy.

Advancement to Candidacy

In order to be advanced to candidacy, the student must:

1. Achieve classified status;
2. Complete between 11 and 15 units of applicable work as a graduate student, with a grade point average of at least 3.0 ("B");
3. Complete MATH 6000 with a grade of B or better. (This is the Writing Requirement for Graduate Candidacy.)
4. Submit a formal program of graduate work as part of Advancement to Candidacy prepared in consultation with and approved by the departmental graduate committee;
5. Gain final approval of the program and of the candidacy itself by the Dean of Graduate Studies.

Requirements for Graduation

1. Advancement to candidacy for the degree;
2. A minimum of 31 semester units of acceptable graduate level work as specified below in the formal program;
3. No less than 22 units completed in residence at this university;
4. Completion of a thesis or successfully pass all comprehensive exams (see below for more on these options);
5. A grade point average of at least 3.0 in the program, with no course grade being less than "B-;"
6. The Graduate Writing Assessment requirement is met through successful completion of MATH 6000;
7. Any additional general requirements not cited above and listed in Graduate Degree and Program Requirements (p. 74).

Degree Requirements (31 units)

(Program Code: MTHM)

Core courses (10)		
MATH 6000	Communicating Mathematics	2
MATH 6016	Graduate Algebra	4
MATH 6018	Analysis in Several Variables	4
Electives (15)		
5 elective courses for at least 15 units. At least 6 units must be at the 6000 level. The 6000-level electives may be chosen from Math 6110, 6145, 6178, or any of the independent study courses.		15
Approved 5000- or 6000-level courses in mathematics not used to satisfy any other requirement		
Approved 4000-level courses in mathematics not in the core of the major		
Culminating Experience (6)		**6**
Total Units		**31**

Culminating Experience (6 units)

The student may choose as their culminating experience to either write a thesis or pass three comprehensive examinations. This decision is made when the student advances to candidacy.

Thesis option (6 units)

MATH 6972	Graduate Thesis I	2
MATH 6974	Graduate Thesis II	4
Total Units		**6**

If the student chooses to pursue a thesis to fulfill the above requirement for graduation, they must have a GPA in the program of 3.25 or higher, and then complete the thesis preparation courses Math 6972 and Math 6974. To enroll in Math 6972, the student must submit a short proposal with a faculty mentor (who agrees to be the chair of their thesis committee) to the MA Coordinator by the final week of classes in the semester prior to enrolling in Math 6972. A detailed thesis proposal approved by two other faculty members who agree to be on the student's thesis committee is usually produced by the student during Math 6972. In any event, this proposal must be submitted to the MA Coordinator before the last week of classes of the semester prior to enrolling in Math 6974 so that it can be reviewed and approved by the MA Committee, at which time the student may enroll in Math 6974 and complete the writing and defense of their thesis.

Comprehensive Exam option (6 units)

MATH 6900	Comprehensive Exam Preparation in Elective Topics	1
MATH 6916	Comprehensive Exam Preparation in Algebra	1
MATH 6918	Comprehensive Exam Preparation in Analysis	1
At least 3 additional units at the 5000 or 6000 level		3
MATH 6981	MA Comprehensive Examination	0
Total Units		**6**

If the student does not pursue a thesis, then they must pass three comprehensive exams and enroll in at least 3 additional math units at the 5000 or 6000 level (this course level requirement may be waived in certain circumstances). These exams are each taken any time during the expected final semester of the program, this schedule is developed by those faculty involved. Two of the exams cover standard material in MATH 6016 and MATH 6018. The third exam *must not be* predominantly written (for example, oral), and covers material from two elective courses (excluding Math 6178 and Math 6411); one of these selected courses must be at the 6000 level. The instructors of these two courses comprise two of the three members of the student's elective examination committee, while the third is chosen by the student. The chair of this committee is responsible for helping to arrange administrative aspects of the exam but also help to mentor the student as they prepare.

The instructors of the most recent MATH 6016 and MATH 6018 courses will write and evaluate the written Algebra and Analysis exams, and will be the instructors of MATH 6916 and MATH 6918, respectively. The chair of the student's elective examination will be the instructor for MATH 6900, and this committee will evaluate the student's performance in their elective comprehensive examination. To enroll in MATH 6900, the student must submit a proposal to the MA Coordinator for approval by the MA Committee before the final week of classes prior to the

semester they will enroll in MATH 6900, MATH 6916, and MATH 6918. This proposal must have the names and signatures of the student's elective examination committee and the instructors of MATH 6916 and MATH 6918. In addition, it must contain the dates, times, and locations of all three examinations. It must also list what two courses the elective examination covers, and a short summary of the material from those courses the student shall be responsible for, along with any other information relevant to the exam, for example, any special topics or responsibilities of the student. This proposal functions as a contract for how the exams will be administered. The student must also enroll in the 0 unit course MATH 6981, where a grade of "Credit" is given once the student successfully passes all three comprehensive exams.

If a student fails any of the exams, they may retake it only once. Only failed exams need to be retaken. If an exam is failed twice, the student may petition the department for subsequent attempts in exceptional circumstances. Approval of such petitions may be contingent upon completion of additional designated courses.

Bachelor of Arts in Mathematics

The Bachelor of Arts degree program in Mathematics is designed for the student who, upon graduation, will begin a career involving mathematics or plans to pursue graduate studies in mathematics, and is interested in augmenting their foundational mathematics curriculum with a minor in another field or studies in other subjects.

The B.A. in Mathematics requires a total of 58-61 units of coursework; of those, up to 6 units may be selected from courses that count towards the University's General Education requirements in categories 1B and 2, and one course (MATH 3100) counts toward the upper-division writing intensive requirement.

Students pursuing a career in education are strongly encouraged to consult a faculty advisor when selecting their elective coursework (MATH 3460, MATH 2900, and MATH 4900 should be included).

All Math courses required for these programs will be offered in-person when offered during Fall or Spring semester, with the exception of MATH 3100 and MATH 4900, which will be offered in hybrid mode, with 25% of the instruction occurring online.

Degree Requirements (58-61 units)

Total units required for graduation: 120

(Program Code: MATH)

Lower-division requirements (25-26)		
MATH 2210	Calculus I	4
MATH 2220	Calculus II	4
MATH 2265	Statistics with Applications	3
MATH 2270	Differential Equations with Dynamical Systems I	3
MATH 2310	Applied Linear Algebra	4
MATH 2320	Multivariable Calculus	4
Select one of the following CSE courses:		3-4
CSE 1100	Critical Thinking Through Computer Programming	
CSE 1250	Programming Basics	
CSE 2010	Computer Science I	
Upper-division requirements (18)		
MATH 3100	Mathematical Thinking: Communication and Proof *	4
MATH 3329	Euclidean Geometry with Transformations	3
MATH 3345	Number Theory	3
MATH 4300	Real Analysis	4
MATH 4600	Theory of Rings and Fields	4
Electives (15-17)		
Five courses (15-17 units) selected from the following with at least one course from each of Group A, Group B, and Group C. At least two of the five elective courses must be at the 4000-level or above.		15-17
Group A:		
MATH 3372	Combinatorics	
MATH 3770	Introduction to Graph Theory	
Group B:		
MATH 3320	Mathematical Interest Theory	
MATH 3460	Probability Theory	
MATH 4270	Differential Equations with Dynamical Systems II	
MATH 4455	Partial Differential Equations & Fourier Analysis	
Group C:		
MATH 4485	Differential Geometry	
MATH 5170	Complex Analysis	
MATH 5310	Advanced Linear Algebra	
MATH 5529	Advanced Topics in Geometry	
MATH 5550	Introduction to Topology	
Group D:		
MATH 2900	Problem Solving and Mathematical Reasoning for Teachers I	
MATH 4900	Problem Solving and Mathematical Reasoning for Teachers II	
MATH 3480	Topics in History of Mathematics	
MATH 4320	Introduction to Actuarial Modeling	
MATH 4360	Linear Statistical Models	
MATH 5510	Topics in Advanced Mathematics	
MATH 5300	Advanced Real Analysis	
MATH 5565	Mathematical Statistics	
MATH 5600	Group Theory	
MATH 5580	CSUSB to PhD Bridge	
MATH 5953	Independent Study	
PHIL 3560	Philosophy of Logic and Mathematics	
Total Units		**58-61**

* Satisfies the upper-division Writing Intensive (WI) requirement.

Bachelor of Science in Mathematics

The Bachelor of Science in Mathematics program is designed for the student who, upon graduation, plans to pursue graduate studies in mathematics, begin a career in mathematics or closely related field,

or pursue teaching. We offer three distinct concentrations. Students are encouraged to speak to a mathematics faculty advisor to select the appropriate concentration and elective courses that will best fit their career goals.

The General Mathematics Concentration provides a deep level of study in mathematics and includes advanced topics in real analysis and algebra, which are prerequisites for many graduate programs. This concentration requires a total of 67-70 units of coursework; of those, up to 13 units may be selected from courses that count towards the University's General Education requirements in categories 1B, 2, 5A or 5B, 5C, and the requirement for an upper-division writing-intensive course.

The Applied Mathematics Concentration combines mathematics coursework with coursework options in actuarial science, biology, chemistry, computer science, economics, geography, and physics. This concentration requires a total of 70-77 units of coursework; of those, up to 16 units may be selected from courses that count towards the University's General Education requirements in categories 1B, 2, 5A, 5B, 5C, and the requirement for an upper-division writing-intensive course.

The Teaching Mathematics Concentration is the best option for prospective secondary mathematics teachers and includes courses designed to help build the specialized content knowledge necessary for successful teaching. This concentration requires a total of 63-64 units of coursework; of those, up to 9 units count towards the University's General Education requirements in categories 1B, 2, and the requirement for an upper-division writing-intensive course.

All Math courses required for these programs will be offered in-person when offered during Fall or Spring semester, with the exception of MATH 3100 and MATH 4900, which will be offered in hybrid mode, with 25% of the instruction occurring online.

Degree Requirements (63-77 units)

Total units required for graduation: 120

Lower-division requirements (22-23)		
MATH 2210	Calculus I	4
MATH 2220	Calculus II	4
MATH 2265	Statistics with Applications	3
MATH 2310	Applied Linear Algebra	4
MATH 2320	Multivariable Calculus	4
Select one of the following CSE courses:		3-4
CSE 1100	Critical Thinking Through Computer Programming *	
CSE 1250	Programming Basics	
CSE 2010	Computer Science I	
Upper-division requirements (18)		
MATH 3100	Mathematical Thinking: Communication and Proof	4
Note: MATH 3100 satisfies the GE upper-division Writing Intensive (WI) requirement.		
MATH 3329	Euclidean Geometry with Transformations	3
MATH 3345	Number Theory	3
MATH 4300	Real Analysis	4
MATH 4600	Theory of Rings and Fields	4
Concentration (23-36)		
Students must complete one of the three concentrations listed below:		23-36
Total Units		**63-77**

* Satisfies GE 1B.

Concentrations (23-36 Units)

General Mathematics Concentration

(Program Code: MATH)

Lower-division requirements (6-8)		
MATH 2270	Differential Equations with Dynamical Systems I	3
In addition to the lower-division CSE requirement, select one 2000-level course from the following: BIOL 2010*, BIOL 2160, BIOL 2170, BIOL 2180, CHEM 2050, CHEM 2070, CHEM 2100, CSE 2010*, ECON 2201, ECON 2202, GEOL 2040, GEOG 2040, GEOG 2249, GEOG 2250, PHIL 2100, PHYS 2000, or PHYS 2500. *		3-5
Upper-division requirements (6)		
MATH 5300	Advanced Real Analysis	3
MATH 5600	Group Theory	3
Electives (15)		
Five courses (15 units) selected from the following with at least one course from each of Group A, Group B, and Group C.		15
Group A:		
MATH 3372	Combinatorics	
MATH 3770	Introduction to Graph Theory	
Group B:		
MATH 4270	Differential Equations with Dynamical Systems II	
MATH 4455	Partial Differential Equations & Fourier Analysis	
Group C:		
MATH 4485	Differential Geometry	
MATH 5170	Complex Analysis	
MATH 5310	Advanced Linear Algebra	
MATH 5529	Advanced Topics in Geometry	
MATH 5550	Introduction to Topology	
Group D:		
MATH 3320	Mathematical Interest Theory	
MATH 3460	Probability Theory	
MATH 3480	Topics in History of Mathematics	
MATH 4320	Introduction to Actuarial Modeling	
MATH 4360	Linear Statistical Models	
MATH 5510	Topics in Advanced Mathematics	
MATH 5565	Mathematical Statistics	
MATH 5580	CSUSB to PhD Bridge	
MATH 5953	Independent Study	
PHIL 3560	Philosophy of Logic and Mathematics	
Total Units		**27-29**

* Note course has prerequisite(s).

Applied Mathematics Concentration

(Program Code: MAAM)

Lower-division requirements (9-13)		
MATH 2270	Differential Equations with Dynamical Systems I	3
In addition to the lower-division CSE requirement, select one 2000-level course from Group I below and one additional course from either Group I or Group II:		6-10
Group I: BIOL 2010*, BIOL 2160, BIOL 2170, BIOL 2180, CHEM 2050, CHEM 2070, CHEM 2100, ECON 2202, GEOL 2040, GEOG 2040, PHIL 2100, PHYS 2000, PHYS 2500. Each course in Group I satisfies one of the following GE categories: 1B, 4, 5A, or, 5B. *		
Group II: BIOL 2020*, CHEM 2060*, CHEM 2200*, CSE 2010*, CSE 2020*, ECON 2201, GEOG 2249, GEOG 2250, PHYS 2010*, PHYS 2510*, PHYS 2700*. *		
Upper-division requirements (3)		
MATH 5310	Advanced Linear Algebra	3
Electives (18-20)		
Six courses (18-20 units) selected from the following with four courses from Group A and two courses from Group B. At least three elective courses must be chosen from the 4000-level or above.		18-20
Group A:		
MATH 3320	Mathematical Interest Theory	
MATH 3372	Combinatorics	
MATH 3460	Probability Theory	
MATH 3770	Introduction to Graph Theory	
MATH 4270	Differential Equations with Dynamical Systems II	
MATH 4320	Introduction to Actuarial Modeling	
MATH 4360	Linear Statistical Models	
MATH 4455	Partial Differential Equations & Fourier Analysis	
MATH 5565	Mathematical Statistics	
In addition to the two courses already taken from Group I and/or Group II above, select at most one additional course from the following in consultation with an advisor: BIOL 2020, BIOL 3100, BIOL 3300, BIOL 3700, BIOL 3800, CHEM 2300, CHEM 2400, CHEM 3200, CSE 2020, CSE 2130, CSE 4200, CSE 4310, CSE 5000, CSE 5120, CSE 5350, CSE 5360, CSE 5500, ECON 3103, ECON 3314, ECON 3318, ECON 3400, ECON 3780, GEOG 3710, GEOG 4860, GEOG 4880, PHYS 2700, PHYS 3100, PHYS 3200, or PHYS 3300.		
Group B:		
MATH 3480	Topics in History of Mathematics	
MATH 4485	Differential Geometry	
MATH 5170	Complex Analysis	
MATH 5300	Advanced Real Analysis	
MATH 5510	Topics in Advanced Mathematics	
MATH 5529	Advanced Topics in Geometry	
MATH 5550	Introduction to Topology	
MATH 5600	Group Theory	
MATH 5580	CSUSB to PhD Bridge	
MATH 5953	Independent Study	
Total Units		**30-36**

* Note course has prerequisite(s).

Teaching Mathematics Concentration

(Program Code: MATM)

Lower-division requirements (4)		
MATH 2900	Problem Solving and Mathematical Reasoning for Teachers I	4
Upper-division requirements (13)		
MATH 3460	Probability Theory	3
MATH 3480	Topics in History of Mathematics	3
MATH 4900	Problem Solving and Mathematical Reasoning for Teachers II	4
MATH 5900	Senior Seminar for Future Mathematics Educators	3
Electives (6)		
Two courses (6 units) selected from the following with at least one course from Group A.		6
Group A:		
MATH 5170	Complex Analysis	
MATH 5300	Advanced Real Analysis	
MATH 5310	Advanced Linear Algebra	
MATH 5529	Advanced Topics in Geometry	
MATH 5550	Introduction to Topology	
MATH 5565	Mathematical Statistics	
MATH 5600	Group Theory	
Group B:		
MATH 2270	Differential Equations with Dynamical Systems I	
MATH 3140	Introduction to Systems Modeling	
MATH 3320	Mathematical Interest Theory	
MATH 3372	Combinatorics	
MATH 3770	Introduction to Graph Theory	
MATH 4320	Introduction to Actuarial Modeling	
MATH 4360	Linear Statistical Models	
MATH 4485	Differential Geometry	
MATH 5510	Topics in Advanced Mathematics	
MATH 5580	CSUSB to PhD Bridge	
MATH 5953	Independent Study	
Total Units		**23**

Minor in Mathematics

Requirements for a minor in Mathematics (26-28 units)

Lower-division requirements (16)		
MATH 2210	Calculus I	4

MATH 2220	Calculus II	4
MATH 2310	Applied Linear Algebra	4
MATH 2320	Multivariable Calculus	4
Upper-division requirements (10-12)		
MATH 3100	Mathematical Thinking: Communication and Proof	4
Two courses chosen from upper-division mathematics courses applicable to a Mathematics major (with the exception of MATH 2900, MATH 4900, and MATH 5900), selected in consultation with a math faculty advisor. Note: PHYS 3100 may be substituted for MATH 4270.		6-8
Total Units		**26-28**

Minor in Statistics

The statistics minor has a minimum requirement of 34 credits. The minor in statistics consists of 8 required courses (28 units) and 2 elective courses (6 units). Our goal with the statistics minor is to offer a concentrated applied and theoretical curriculum. The statistics minor is suitable for chemistry, computer science & engineering, mathematics, and physics majors who already complete coursework in Calculus and/or Statistics with Applications. Upon completion of this program, students will

1. understand fundamental theoretical and applied principles of statistics needed for the job market.
2. acquire programming skills required for data analysis.
3. be able to communicate effective statistical concepts to statisticians and non-statisticians, both verbally and in writing.
4. be able to effectively conduct quantitative analyses which is compliant with industry and academic standards.

Requirements for a minor in Statistics (34 units)

Lower-division Requirements (19)		
MATH 2210	Calculus I	4
MATH 2220	Calculus II	4
MATH 2265	Statistics with Applications	3
MATH 2310	Applied Linear Algebra	4
MATH 2320	Multivariable Calculus	4
Upper-division Requirements (9)		
MATH 3460	Probability Theory	3
MATH 3465	Computational Statistics	3
MATH 4360	Linear Statistical Models	3
Electives (6)		
Two courses chosen from the following, with at least one MATH course. MATH 5510 may count towards elective units with departmental permission.		6
MATH 5360	Statistical Methods for Machine Learning	
MATH 5565	Mathematical Statistics	
IST 2510	Big Data Analytics	
HSCI 3205	Biostatistics for Health Science	
PSYC 4410	Advanced Psychological Statistics	
BIOL 5050	Biostatistics and Experimental Design	
Total Units		**34**

Certificate in Introductory Actuarial Science

This program is designed to prepare students for the preliminary examinations given by the Society of Actuaries. Completion of those exams is normally considered the prerequisite for internships and entry-level positions in the field of actuarial science. For more information contact the Department of Mathematics.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (34 units)

Lower-division requirements (22)		
ECON 2201	Principles of Microeconomics	3
ECON 2202	Principles of Macroeconomics	3
MATH 2210	Calculus I	4
MATH 2220	Calculus II	4
MATH 2310	Applied Linear Algebra	4
MATH 2320	Multivariable Calculus	4
Upper-division requirements (6)		
MATH 3320	Mathematical Interest Theory	3
MATH 3460	Probability Theory	3
Electives (6)		**6**
Select TWO of the following courses:		
MATH 2265	Statistics with Applications	
MATH 3372	Combinatorics	
MATH 4320	Introduction to Actuarial Modeling	
Total Units		**34**

Certificate in Introductory Mathematics

The Certificate in Introductory Mathematics meets the required components for the Subject Matter Authorization: Introductory Mathematics. Completion of this program allows individuals who hold a valid California teaching credential to apply for the Subject Matter Authorization: Introductory Mathematics for teaching the content matter up through ninth grade mathematics. This certificate may be earned by regularly matriculated or extended learning students.

All core certificate requirements are offered in-person during the academic year. Certain electives have occasional online offerings (Math 2372) or are offered in hybrid mode with up to 25% of instruction occurring online (Math 3100).

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (29-36 units)

Courses must be completed with a grade of C (2.0) or better.

Core Requirements and Electives (29-36)		**29-36**
Core Requirements		
Select at least one course from each of the following five areas, with no course used to satisfy more than one area:		
A1: Algebra		
MATH 1301	Modeling with Functions	
or MATH 1402	Preparation for Calculus A	
MATH 1401	Accelerated Preparation for Calculus	
or MATH 1402	Preparation for Calculus A	
MATH 1601	Modeling with Calculus	
or MATH 2210	Calculus I	
Note: MATH 1302 and MATH 1303 may substitute for MATH 1301; however, only 3 units will apply towards the total units for the Certificate.		
A2: Advanced Algebra		
MATH 1401	Accelerated Preparation for Calculus	
or MATH 1403	Preparation for Calculus B	
MATH 1601	Modeling with Calculus	
or MATH 2210	Calculus I	
MATH 2220	Calculus II	
MATH 2310	Applied Linear Algebra	
A3 : Geometry		
MATH 1601	Modeling with Calculus	
or MATH 2210	Calculus I	
MATH 2220	Calculus II	
MATH 2320	Multivariable Calculus	
MATH 3013	Mathematical Concepts and Problem Solving for Educators III	
A4: Probability & Statistics		
MATH 1201	Introduction to Statistical Thinking	
or MATH 2265	Statistics with Applications	
A5 : Development of the Real Number System		
MATH 1601	Modeling with Calculus	
or MATH 2210	Calculus I	
MATH 2220	Calculus II	
MATH 3010	Mathematical Concepts and Problem Solving for Educators I	
Electives		
Select an additional 14-17 units from: (1) other courses listed above not already used to meet the required categories (unless courses are restricted between two options in those categories), (2) any mathematics course numbered 2000 to 4000 applicable to the BS in Mathematics - Teaching Mathematics Concentration, or (3) the following courses:		
MATH 1501	Critical Thinking Through Applications of Mathematical Logic	
MATH 2229L	Two-Dimensional Geometry Lab	
MATH 2239L	Three-Dimensional Geometry Lab	
MATH 2372	Discrete Mathematics	
MATH 3012	Mathematical Concepts and Problem Solving for Educators II	
MATH 3510	Topics in Mathematics	
Total Units		**29-36**

Department of Nursing

Health and Physical Education, Room 215
(909) 537-5380 Department of Nursing website (http://nursing.csusb.edu)

The Department of Nursing offers two programs. One program leads to the Bachelor of Science degree in nursing (BSN). The other program leads to the Master of Science degree in nursing (MSN). The BSN and MSN programs are accredited by the Commission on Collegiate Nursing Education (https://www.aacnnursing.org/ccne-accreditation/) (CCNE).

The BSN program offers two tracks, a pre-licensure BSN track and an RN-BSN track. The pre-licensure BSN is approved by the Board of Registered Nursing of California. The pre-licensure BSN and RN-BSN meet the requirements for public health nursing certification in California.

The MSN program offers three concentrations: Advanced Community/ Public Health Nursing, Population Health for Clinical Nurse Leaders, and Nurse Educator.

BSN

The Department of Nursing offers didactic and clinical courses for students to experience caring of diverse patients across the entire life span. A variety of health care agencies are utilized for students' clinical rotation experience. This program is to graduate entry level professional registered nurses to promote optimal health in a variety of healthcare settings.

As an impacted program, the pre-licensure BSN program is offered in the San Bernardino campus and the Palm Desert campus. Students should apply for admission to the Department of Nursing in addition to the CSUSB university admission. Please check the Department of Nursing website for detailed department admission requirements. Conditional department admission is contingent upon satisfactory results from background check and drug screen test. Students are also expected to meet the compliance requirements per the department and/or rotating health care agencies' requirements.

RN-BSN

The RN-BSN is a hybrid program including the traditional RN-BRN program and Concurrent Enrollment Program (CEP). The traditional RN-BSN program is designed for students holding a California RN license who wishes to complete a BSN degree. The CEP is an innovative program in collaboration with community colleges. Associate degree nursing (ADN) students enrolled in the community colleges can take the traditional ADN courses and simultaneously enroll in the required CSUSB hybrid courses. Upon completion of the ADN program at the community college, students are eligible and will take the NCLEX licensure exam to

complete the CEP CSUSB nursing courses, and eventually will graduate from CSUSB with a BSN degree.

MSN

The MSN is a hybrid program and designed for working registered nurses (RNs) who are ready to further advancement in different specialties. Every student completes a series of core courses in the Population Health Leadership for Nurse Educators specialty.

All didactic courses are delivered in a hybrid format and a variety of health care agencies/facilities are utilized for students' clinical rotation experience.

Post Graduate Certificates

The Department of Nursing offers two post-graduate nursing certificate programs for Registered Nurses who hold an earned master's or doctoral degree and are interested in expanding their expertise in an added specialty. The certificate programs build on completed graduate course work and provide options for professional development.

The post-graduate nursing certificates are in the following specialty areas:

1. Advanced Community/Public Health Nursing (https://www.csusb.edu/nursing/programs/post-graduate-certificates/advanced-community-public-health-post-graduate/)
2. Nurse Educator

Departmental Honors

A graduating senior will be awarded departmental honors in nursing after meeting the following requirements:

1. Achieve a minimum grade point average of 3.6 in all upper division courses taken at the university.
2. A clear demonstration of the ability to do independent work in nursing and recommendation by the faculty of the Department of Nursing.

Current Faculty

Dawn Blue, Professor of Nursing
B.S.N. 2002, CSU San Bernardino
D.N.P. 2015, Brandman University

Terese Burch, Professor of Nursing
B.S.N. 1974, Loyola University
M.S. 1977, Rush University
Ph.D. 1989, University of Illinois at Chicago

Shawnte Chastain, Professor of Nursing
B.S. 2003, Ball State University
M.S. 2007, Ball State University
Ph.D. 2013, Ball State University

Samantha Juan, Assistant Professor of Nursing
B.S.N. 1999, Taipei Medical University, Taiwan
M.S.N. 2003, Pennsylvania State University
Ed.D. 2023, Teachers College, Columbia University

Younglee Kim, Professor of Nursing
B.S. 1998
M.S.N. 2009, California State University, San Bernardino
Ph.D. 2014, Azusa Pacific University

Yeon Kim, Professor of Nursing
B.S.N. 1991, Seoul National University
M.S.N. 2011, CSU Dominguez Hills
D.N.P. 2015, CSU Fullerton

Anne Lama, Assistant Professor of Nursing
B.S.N. 1982, CUNY Hunter College
M.S.N. 2014, California State University, San Bernardino
D.N.P. 2020, Azusa Pacific University

Henrietta Nwamu, Assistant Professor of Nursing
B.S. 1993, California State University, Polytechnic Pomona
M.S.N. 2009, University of Phoenix
Ph.D. 2019, University of Phoenix CC

Timothy Ortiz, Assistant Professor of Nursing
M.S.N. 2023, D.N.P. 2025, West Coast University

Pinthusorn Pattayakorn, Professor of Nursing, Chair, Chair
B.S.N. 1992, Rangsit University
M.S.N. 1996, Mahidol University
Ph.D. 2009, Mahidol University

Nicole Ringo, Assistant Professor of Nursing
Ph.D. 2019, University of Arizona

May San-Rozano, Assistant Professor of Nursing
M.S. 2013, Ph.D. 2022, Azusa Pacific University

Justin Schneider, Assistant Professor of Nursing
B.S. 2003, University of Evansville
B.S. 2012, Barnes-Jewish College, St. Louis
M.S. 2016, D.N.P. 2019, Maryville University, St. Louis

Tykeysha Thomas, Assistant Professor of Nursing
B.S.N. 2010, California State University, Dominguez Hills
M.S.N. 2015, Ph.D. 2019, University of California, Los Angeles

Jie Yu, Professor of Nursing
B.S.N. 2000, Peking University, China
Ph.D. 2008, University of Missouri-Columbia

Emeriti

Cheryl Brandt

Teresa Dodd-Butera

Geraldine Fike

Dorothy Johnson

Janice Layton

Lynne Leach

Susan J. McGee-Stehsel

Mary L. McGregor

Mary E. Molle

Mary G. Patterson

Del LaVerne Watson

Donna M. Ziebarth

Undergraduate Degrees

Bachelor of Science

Accredited by the Commission on Collegiate Nursing Education (CCNE) *(*https://www.aacnnursing.org/ccne-accreditation*/)*

- Nursing (p. 289)
- RN to BSN (p. 289)

Graduate Degree

Master of Science

The master's degree in nursing at CSU San Bernardino is accredited by the Commission on Collegiate Nursing Education *(*http://www.aacn.nche.edu/ccne-accreditation*/)*

- Nursing (p. 287) with concentrations in
  - Population Health Leadership for Nurse Educators

Doctorate

- Doctor of Nursing Practice (p. 286)

Certificates

- Advanced Community/Public Health Nursing (p. 291)
- Nurse Educator (p. 291)

Doctor of Nursing Practice

The Doctor of Nursing Practice (DNP) Program is a professional degree designed to create practice-ready advanced practice registered nurses (APRN) to lead the transformation of healthcare and provide evidence-based, holistic, innovative, and fiscally responsible healthcare. The APRN is prepared to deliver care that is diverse and inclusive of the determinants of health to positively impact individuals and communities in which they practice, particularly the Inland Empire region.

This three-year BSN-DNP Program utilizes a hybrid synchronous and asynchronous approach. Students complete online didactic courses and 1,000 clinical hours; three on-campus advanced clinical skills development immersions (135 on-campus clinical hours), DNP Project implementation (70 hours), health assessment lab (45 hours), and direct patient care clinical rotations within assigned clinical sites (750 hours of in-person). Students apply the knowledge gained throughout the program to develop and implement a DNP Scholarly Project.

Upon completion of the DNP Program students will have accomplished the requirements to make them eligible to complete the national certification exam in the family nurse practitioner (FNP) specialty.

Admission Requirements

Admission shall be granted on a competitive basis; meeting the following minimum requirements qualifies an individual for but does not guarantee admission to the program. In addition to the general university admission requirements, specific requirements for admission to classified graduate status include:

1. A baccalaureate or master's degree in nursing from a CCNE-accredited program, or a regionally-accredited baccalaureate or master's degree in nursing. The applicant has a completed equivalent academic preparation as determined by the Department of Nursing (DON) Graduate Affairs.
2. A cumulative grade point average of at least 3.0 in an acceptable bachelor's degree in nursing or master's degree in nursing as determined by the appropriate campus authority.
3. Active registered nurse (RN) license, unencumbered, unrestricted, with no disciplinary action pending or imposed from the state in which the applicant will complete direct clinical hours.
4. Meet eligibility requirements for credentialing or certification as a family nurse practitioner upon graduation. These can be found at www.aanp.org (http://www.aanp.org/) or www.nursingworld.org (http://www.nursingworld.org/).
5. Hold a current American Heart Association BLS Certification.
6. A minimum of 2,000 hours of documented work history as a registered nurse.
7. Two (2) satisfactory letters of professional recommendation. These must be dated and signed within the past six months. You should request recommendations from those who can speak to your professional and academic readiness to attend a rigorous graduate program. At least one letter must be from a direct supervisor.
8. A satisfactory written personal statement that describes what the applicant expects to accomplish in the DNP program and how the DNP program will advance the applicant's nursing career and practice.
9. Successful completion of a personal interview.
10. Successful completion of a college-level statistics course equivalent to MATH 1201 – Introduction to Statistical Thinking.
11. Preference will be given to applicants who reside in the Inland Empire and Southern California service areas and those with military service.

Applicants may consult the Department of Nursing webpage for details on how to apply for admission to the DNP Program. To be considered for admission, applicants must submit a complete application with all required documentation during the application period. All eligible applications are reviewed by the graduate admission committee using a holistic and inclusive review process.

Advancement to Candidacy

In order to be advanced to candidacy, the student must have:

1. Achieved classified graduate status.
2. Completed all DNP core course work with a minimum grade point average of 3.0 ("B") and approval by DNP Program Director.
3. Filed an approved Program Plan for completion of the graduate degree. The degree program must be prepared in consultation with the faculty advisor and approved by the DNP Program Director and the Dean of Graduate Studies.
4. Demonstrated professional and academic competency.
5. Successfully completed the DNP Qualifying Assessment.

Degree Requirements (87 units)

NURS 7000	Foundations of Scholarly Writing	1
NURS 7005	Health Promotion & Population Health	3
NURS 7010	Human Diversity and Health Equity	3
NURS 7015	Biostatistics and Epidemiology	3
NURS 7020	Health Policy, Economics, and Fiscally Responsible Care	3

NURS 7025	Introduction to the Advanced Practice Registered Nurse (APRN) Role	2
NURS 7030	Introduction to Integrative Health & Self-Care for the Advanced Practice Registered Nurse (APRN)	2
NURS 7035	Leadership Role and Interprofessional Collaboration	3
NURS 7040	Quality Improvement and Evidenced-Based Practice Methods	3
NURS 7045	Information Systems Technology and Telehealth	3
NURS 7100	Advanced Physiology and Pathophysiology	3
NURS 7105	Advanced Pharmacotherapeutics 1	3
NURS 7110	Advanced Health Assessment Across the Lifespan	3
NURS 7110L	Advanced Health Assessment Lab	1
NURS 7120	Advanced Pharmacotherapeutics 2	3
NURS 7400	Pediatric Health Management and Pharmacotherapeutics	3
NURS 7410	Family Health Management Theory 1	3
NURS 7410L	Family Health Management Simulation Lab 1	1
NURS 7415	Diagnostic and Management Reasoning	3
NURS 7420	Women's Health and Obstetrics	2
NURS 7430	Family Health Management Theory 2	3
NURS 7430C	Family Health Management Clinical 2	4
NURS 7430L	Family Health Management Simulation Lab 2	1
NURS 7440	Concepts of Behavioral Health	2
NURS 7450	Family Health Management Theory 3	3
NURS 7450C	Family Health Management Clinical 3	6
NURS 7450L	Family Health Management Simulation Lab 3	1
NURS 7460	Family Clinical Practicum	8
NURS 7500	DNP Systems Thinking 1	1
NURS 7510	DNP Systems Thinking 2	2
NURS 7520	DNP Systems Thinking 3	1
NURS 7530	DNP Systems Thinking 4	2
NURS 7540	APRN Role Transition to Practice	2
Total Units		**87**

The DNP Project is a written product of a systematic, rigorous evidence-based quality improvement project that is focused on a significant clinical practice issue. In accordance with Section 40513 of Title 5 of the *California Code of Regulations,* the project shall be submitted in written form, with an oral presentation and shall identify: the problem statement and purpose; major theoretical perspectives; significance of the undertaking; relevance of scholarly and professional literature; appropriate methods of gathering, implementation, and analyzing data; and offer a conclusion or recommendation. Students must successfully defend the DNP Project proposal to their DNP Project Committee, obtain IRB approval for implementation, implement the project, and successfully defend the findings to the DNP Project Committee in the DNP Project Defense. The DNP project is completed within the four DNP Systems Thinking courses (NURS 7500, NURS 7510, NURS 7520, NURS 7530). Students who do not successfully defend their project on their first attempt may petition the Department of Nursing Graduate Affairs Committee for a second and final attempt within one year. For more information related to the comprehensive examination process contact the DNP Program Director.

Master of Science in Nursing

The Department of Nursing offers a graduate program leading to a Master of Science in Nursing. The program is designed to prepare nurse educators who are leaders in the practice of population health promotion. Graduates are prepared to teach, practice, lead, and serve in culturally diverse, pluralistic communities, delivering expert nursing care in various settings including academic, clinical, and community-based environments. Graduates will work collaboratively with other health care providers and participate effectively in interprofessional health care delivery.

CSUSB MS in Nursing Requirements:

A "B" (3.0) average is required to remain in good standing in the CSUSB MS in Nursing program.

MSN courses (except for clinical practicums and internships) are offered fully online. Practicum courses are typically project-focused in nature.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A baccalaureate degree in nursing from a CCNE-accredited program, OR a regionally-accredited baccalaureate degree in a discipline related to nursing;
    a. Applicants with non-nursing baccalaureate degrees or with a baccalaureate degree in nursing from a Department of Education-recognized accrediting body other than CCNE must meet competencies as defined in the AACN Essentials of Baccalaureate Education which include but are not limited to:
        i. Health assessment
        ii. Research
        iii. Leadership
        iv. Community/public health

Competency may be verified through completed courses, credit by examination, certification, or documented professional expertise in the subject. Applicants are encouraged to discuss options with the Graduate Coordinator.

1. 3.0 ("B") minimum GPA calculated according to recommended practice of the CSUSB Graduate Council;
2. Current California registered nurse (RN) license, unencumbered, unrestricted, with no disciplinary action pending or imposed.
3. Two (2) satisfactory letters of professional recommendation;
4. Personal statement;
5. Successful completion of an undergraduate statistics course.

Applicants may consult the information on the Department of Nursing webpage for details about the significant clinical compliance requirements that must be met upon admission to the MS in Nursing program.

Advancement to Candidacy

In order to be advanced to candidacy, the student must have:

1. Achieved classified status;
2. Completed at least 20 semester units of course work with a minimum grade point average of 3.0 ("B"), approved by the Graduate Program Coordinator;
3. Filed an approved Program Plan for completion of the graduate degree. The degree program must be prepared in consultation with the faculty advisor and approved by the Graduate Program Coordinator and the Dean of Graduate Studies;
4. Demonstrated professional competence and integrity in academic and clinical practice settings.

Requirements for Graduation

In addition to the general requirements of the university:

1. Advancement to candidacy for the MS degree in nursing;
2. Fulfillment of the semester units and clinical hours;
3. Maintain a grade point average of at least 3.0 ("B") for each individual course;
4. The Graduate Writing Assessment Requirement is met by one of the following options:
   Earn a grade of B or better in an upper division undergraduate writing course
   Achieve an acceptable standardized test score on the Writing section of the Graduate Record Exam;
5. Successfully complete the comprehensive examination, which includes completing and NURS 6980 and NURS 6902.

Degree Requirements (38 units)

Core Requirements (28)		
NURS 5544	Integrated Pathophysiology, Health Assessment, & Pharmacology	3
NURS 6005	Intro to Advanced Nursing Practice	2
NURS 6010	Epidemiology & Biostatistics	3
NURS 6015	Application of Theory and Research for Evidence Based Practice & Quality Improvement	3
NURS 6020	Population Health Promotion I: Ethical Leadership in Practice and Policy	3
NURS 6205	Nurse Educator: Curriculum & Instruction	4
NURS 6210	Nurse Educator: Assessment & Evaluation	3
NURS 6215	Nurse Educator: Technology for Instruction & Evaluation	2
NURS 6225	Nurse Educator: Clinical Educator Internship	1
NURS 6335	Nurse Educator: Academic Teaching Internship	2
NURS 6902	Preparation for Culminating Experience	2
Concentration (10)		**10**
Culminating Experience (0)		**0**
Total Units		**38**

Culminating Experience (0 units)

NURS 6980	Comprehensive Examination	0
Total Units		**0**

The written comprehensive examination is an integrative examination designed to assess the student's ability to think critically, integrate knowledge of the discipline of nursing, and demonstrate mastery of core and specialty/concentration competencies. Students may enroll in the examination no earlier than the last term in which coursework is taken and must be advanced to candidacy one term before taking the comprehensive examination. Students who do not receive a passing score may petition the Department of Nursing Graduate Affairs Committee to retake the exam within one year. After an exam failure, the candidate and advisor will discuss actions necessary for remediation of shortcomings. For more information related to the comprehensive examination process and scheduling contact the Graduate Program Coordinator.

Concentration (10 units)

Population Health Leadership for Nurse Educators

NURS 6120	Population Health Promotion II: Assessment of a Population's Health	4
NURS 6220	Population Health Promotion III: Health Program Planning	4
NURS 6320	Population Health Promotion IV: Integration Practicum	2
Total Units		**10**

Bachelor of Science in Nursing

Admission Requirements

Admission is selective. Meeting minimum prerequisites does not guarantee admission to the program.

1. Acceptance into CSUSB as a Pre-nursing student.
2. Completed pre-licensure BSN program application, submitted by applicable published deadline;
3. Completion of the ATI Test of Essential Academic Skills (TEAS) pre-admission examination, with a score of at least 70, by admission application deadline;
4. An overall cumulative grade point average (GPA) of 3.5 or better;
5. A GPA of 3.0 or better on completed required prerequisite courses (all prerequisite courses listed below);
6. A grade of C (2.0) or better in each prerequisite course;
7. Attendance at a CSUSB Nursing Information Session;
8. California Residency per requirements for admission to CSU Impacted Programs;

Additional consideration and preference is given to:

1. Residents of the CSUSB local area.
2. Applicants who are bilingual.

Department Regulations

1. Students in the Nursing major must earn grades of "C" or better in all nursing prerequisite courses, corequisite courses, and courses in the nursing major. If a grade less than C (2.0) is earned in any nursing major course, the student will be dismissed from the Nursing program. Dismissed students may request readmission after failure of a nursing course one time. If readmission is approved, the student may re-take the failed course and take all remaining nursing courses a maximum of one time on a space-available basis.
2. Students are responsible for all information and adherence to all policies in the Department of Nursing BSN Nursing Student Handbook including annual updates.

Requirements: 92 units

Total units required for graduation: 120

Requirements for a B.S. in Nursing

(Program Code: NRSG)

Prerequisite support courses required for admission (29)		
BIOL 2200	Microbiology for Allied Health Majors	4
BIOL 2230	Human Anatomy and Physiology I for Allied Health Majors	4
BIOL 2240	Human Anatomy and Physiology II for Allied Health Majors	4
CHEM 2070	Fundamentals of General, Organic, and Biochemistry (The following courses can be substituted for CHEM 2070: CHEM 2050 AND CHEM 2060 (transfer students only) OR [CHEM 205 OR CHEM 215] AND CHEM 2060.)	5
MATH 1201	Introduction to Statistical Thinking	3
Course that fulfills GE Category A1 Oral Communication		3
Course that fulfills GE Category A2 Written Communication		3
Course that fulfills GE Category A3 Critical Thinking		3
Support courses required which may be taken after admission to the nursing major (3)		
PSYC 2201	Developmental Psychology	3
Lower-division requirements (8)		
NURS 2602	Foundational Concepts in Professional Nursing	2
NURS 2821	Foundational Theory and Skills for Nursing Practice	6
Upper-division requirements (52)		
NURS 3016	Health Assessment	3
NURS 3080	Pathophysiologic Concepts for Nursing Practice	3
NURS 3082	Pharmacology and Therapeutics for Nursing Practice	3
NURS 3221	Nursing Care of Adults & Older Adults I	6
NURS 3633	Nursing Care of Children & Families	5
NURS 3635	Nursing Care of Women, Infants, & Families	5
NURS 3640	Introduction to Theories of Nursing & Health	3
NURS 4222	Nursing Research and Evidence-Based Practice	3
NURS 4415	Psychiatric & Mental Health Nursing Practice	5
NURS 4417	Community & Public Health Nursing Practice	5
NURS 4833	Nursing Care of Adults & Older Adults II	7
NURS 4840	Leadership & Management in Nursing	2
NURS 4920	Integration of Knowledge for Professional Nursing Practice	2
Total Units		**92**

Note: Two required upper division nursing courses also fulfill upper division GE requirements for nursing students ONLY. NURS 4222 fulfills the upper division Scientific Inquiry (GE-B5) requirement. NURS 4417 fulfills the upper division Social Science (GE-D4) requirement.

Bachelor of Science in Nursing - RN to BSN Bridge Program

The RN to BSN program is for students who are Registered Nurses who wish to earn a Bachelor of Science (B.S.) in Nursing OR for students who are participating in a collaborative program from an affiliated community college who wish to earn a B.S. in Nursing.

The RN to BSN program is designed for two groups of students: licensed Registered Nurses seeking a Bachelor of Science (B.S.) in Nursing, and students enrolled in a collaborative program through an affiliated community college who also aim to earn a B.S. in Nursing.

The program follows a hybrid model. All theory courses are delivered online, while clinical experiences are conducted in person at designated clinical sites.

For students in the Concurrent Enrollment Program, courses are initially offered in a hybrid format, with face-to-face instruction equivalent to four classes per semester until they complete their Associate Degree in Nursing (ADN) at the community college. After graduation, these students continue with fully online theory courses and in-person clinicals as part of the BSN program.

Admission Requirements:

Applicants must:

1. Document achievement of IGETC certification. Please note the prerequisite support courses listed below satisfy specific IGETC certification areas.
2. Designate the pathway of the RN to BSN program track to which admission is being requested (i.e., collaborative or post-associate-degree).
3. Meet the requirements of the desired pathway.
   a. Collaborative pathway - current enrollment and good standing in an Associate of Science in Nursing degree program at a collaborating community college.
   b. Post-associate-degree pathway - completion of an Associate of Science in Nursing degree and an active California RN license.
4. Earn a grade of C (2.0) or better in all required prerequisite courses.

Prerequisite Support Courses (28-29)

BIOL 2200	Microbiology for Allied Health Majors	4
BIOL 2230	Human Anatomy and Physiology I for Allied Health Majors	4
BIOL 2240	Human Anatomy and Physiology II for Allied Health Majors	4
Choose one of the following:		4-5
CHEM 2070	Fundamentals of General, Organic, and Biochemistry (preferred course selection)	
CHEM 2050 & 2050L	Survey of General Chemistry and Survey of General Chemistry Laboratory	
MATH 1201	Introduction to Statistical Thinking	3
Course that fulfills the GE 1A Written Communication requirement		3
Course that fulfills the GE 1B Critical Thinking requirement		3
Course that fulfills the GE 1C Oral Communication requirement		3
Total Units		**28-29**

Degree Requirements (95 units)

Total units required for graduation: 120

(Program Code: RNBS)

Admitted students must earn a grade of C (2.0) or better on all courses required for the major.

Admitted students may transfer in lower-division General Education courses, prerequisite support courses, and acceptable Associate Degree nursing courses, for a maximum of 70 semester units.

- 16 units of completed Associate of Science in Nursing coursework will be transferred in and applied to the major.

An additional 20 upper division academic units will be awarded to admitted students who are licensed Registered Nurses and have earned an Associate of Science in Nursing, for completed Nursing courses that were not included in the transferred units and for demonstrating nursing knowledge sufficient to pass the National Council of Licensure Exam for Registered Nurses (NCLEX-RN).

Detailed distribution of units in the RN to BSN (Bridge) program is as follows:

- Units for courses that may be transferred to CSUSB (total of 64 units):
  - 48 units of prerequisite support courses, many of which will also meet lower-division GE requirements
  - 16 units of completed Associate of Science in Nursing courses
- Units awarded to licensed Registered Nurses (RNs) (total of 20 units)
  - 20 upper-division units for demonstration of knowledge required to pass the NCLEX-RN
- Units for courses that must be taken at CSUSB:
  - 27 units of upper-division nursing courses, which also meet requirements for 3 units GE UD-2/5 and 3 units GE UD-4, as well as half of the WI designation requirement.
  - 3 units of upper-division GE courses to meet GE UD-3 requirement

Foundational Courses/Credits

Prerequisite Support Courses	29
Associate of Science in Nursing Courses	16
Credit for RN Licensure	20
Total Units	**65**

CSUSB Core Courses

NURS 3010	Role Transition to Professional Nursing Practice	3
NURS 3026	Health Assessment RN	3
NURS 3100	Pathophysiology and Pharmacology	4
NURS 3610	Patient Education, Health Promotion and Care Coordination	3
NURS 4222	Nursing Research and Evidence-Based Practice	3
NURS 4510	Community/Public Health Promotion	3
NURS 4512	Community/Public Health Promotion Practicum	3
NURS 4610	Nursing Leadership	3
NURS 4612	Nursing Leadership Practicum	2
One GE course that meets the UD-3 Arts & Humanities		3
Total Units		**30**

Note: Three required upper division nursing courses double-count toward GE requirements for nursing majors ONLY. Those courses are NURS 3010 for half of the writing intensive requirement, NURS 4222 for the UD Scientific Inquiry (Category UD-2/5) requirement, and NURS 4510 for the UD Social Science (Category UD-4) requirement.

After graduation, students are eligible to apply for a public health nurse certificate from the California Board of Registered Nursing.

Advanced Community/Public Health Nursing Certificate

The Department of Nursing demonstrates its commitment to preparing nurses for advanced nursing roles by offering a post-graduate certificate for nurses with graduate nursing degrees in other specializations who wish to prepare for an advanced role in community/public health. The Advanced Community/Public Health Nursing certificate prepares the holder for practice in community/public health settings. The certificate program consists of a total of 17 units.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Admission Requirements:

- An earned master's or doctoral degree in nursing from a regionally accredited institution and CCNE-accredited program;
- 3.0 ("B") minimum GPA calculated according to recommended practice of the CSUSB Graduate Council;
- Current California Registered Nurse (RN) license, unencumbered, unrestricted, with no disciplinary action pending or imposed;
- Three (3) satisfactory letters of professional recommendation;
- Personal statement;
- Completion of the following prerequisite courses or their equivalent:
  - NURS 6425 Epidemiology & Biostatistics 4 units
  - NURS 6435 Health Informatics 3 units

Applicants may consult the information on the Department of Nursing webpage for details about the significant clinical compliance requirements that must be met upon admission to the Advanced Community/Public Health Nursing certificate program.

Extension and transfer credit from other colleges and/or universities may make up no more than 30% of total certificate units.

Certificate Requirements (17)

NURS 6000	Population Health Assessment	4
NURS 6100	Program Planning and Evaluation	4
NURS 6200	Health Policy Leadership	2
NURS 6548	Transcultural Healthcare	3
NURS 6752	Advanced Community/Public Health Internship	2
NURS 6880	Advanced Role Practicum	2
Total Units		**17**

Certificate in Nurse Educator

The Department of Nursing demonstrates its commitment to preparing nurse educators for the profession by offering a Nurse Educator post-graduate certificate for nurses with graduate nursing degrees in other specializations who wish to prepare for the nurse educator role. The Nurse Educator certificate prepares the holder for nurse educator positions in both academic and clinical settings. The certificate program consists of a total of 20 units.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Admission Requirements:

In addition to the general requirements of the university, specific requirements are:

1. An earned master's or doctoral degree in nursing from a regionally accredited institution and CCNE-accredited program.
2. 3.0 ("B") minimum GPA calculated according to recommended practice of the CSUSB Graduate Council;
3. Current California registered nurse (RN) license, unencumbered, unrestricted, with no disciplinary action pending or imposed.
4. Three (3) satisfactory letters of professional recommendation;
5. Personal statement;

Applicants may consult the information on the Department of Nursing webpage for details about the significant clinical compliance requirements that must be met upon admission to the Nurse Educator certificate program.

Extension and transfer credit from other colleges and/or universities may make up no more than 30% of total certificate units.

Applicants who have taken graduate courses equivalent to NURS 5411, NURS 5422, and/or NURS 5433 from another CSU entity may petition to substitute the course(s).

NURS 6588, NURS 6598, NURS 6608, and NURS 6880 must be taken at CSUSB.

Certificate Requirements (20 units)

NURS 5411	Advanced Health Assessment Across the Life Span	3

NURS 5422	Advanced Pathophysiology	3
NURS 5433	Advanced Pharmacology	3
NURS 6588	Nursing Education: Curriculum and Instruction	3
NURS 6598	Nursing Education: Assessment and Evaluation	3
NURS 6608	Nursing Education: Technology for Instruction & Evaluation	3
NURS 6880	Advanced Role Practicum	2
Total Units		**20**

Department of Physics and Astronomy

Physical Sciences Building, Room 119
(909) 537-5397

Traditionally, physics majors have gone on to graduate work in physics, high school teaching, or employment in industrial or government laboratories. Other opportunities which have recently become interesting for physics graduates include atmospheric physics (including air pollution studies), geophysics, radiation safety, oceanography, astrophysics, technical administration, biophysics, computer science, and medical instrumentation development.

The program for a bachelor of arts degree in physics provides basic knowledge in the main subject areas of physics as well as an opportunity for students to elect a considerable number of courses in other disciplines. This is a good choice for students planning careers in high school teaching. The bachelor of science program includes additional coursework in physics and related fields which further prepares a student for employment or graduate work.

The Department of Physics and Astronomy offers a minor in physics, a minor in applied physics, and a minor in astronomy. providing students with the opportunity to concentrate on a specialized area in physics, The minor in physics provides science students with the opportunity to take an additional course in physics and complement their primary major by selecting physics courses in a related area or courses of their interest.

The minor in applied physics is designed to prepare students for direct employment in high-technology firms upon graduation. For traditional design tasks, high-technology firms typically hire applied physicists with flexible and creative technical abilities who can address a wide range of technical problems and develop an experimental system to attack problems.

The minor in astronomy is designed for any interested student with a background in calculus. Combined with a physics, geology, chemistry, or biology degree, it can give students the background needed to pursue a career or graduate degree in an astronomy-related field including astrophysics, planetary science, cosmology, and more.

Pre-engineering

The department provides a pre-engineering program that enables students to complete the first two years of courses generic to engineering. Students may then transfer to an accredited engineering program of their choice. The following courses have been recommended as appropriate transfer courses:

Students considering a physics or pre-engineering major should call the department office for advising.

Departmental Honors

To be awarded departmental honors in physics a student must:

1. Achieve at least a 3.5 minimum grade point average in courses required for the major taken at California State University, San Bernardino, and at least a 3.0-grade point average overall;
2. Conduct advanced research on a topic approved by a faculty member who will serve as project director;
3. Obtain written approval upon successful completion of the project from the project director and the chair, present the results of the research to the department or at a research conference, and/or publish the results in a peer-reviewed scientific journal.

Current Faculty

Sara Callori, Professor of Physics and Astronomy
B.A. 2007, New York University
M.A. 2009, Ph.D. 2013, Suny at Stony Brook

Matteo Crismani, Associate Professor of Physics and Astronomy
B.S. 2012, University of California, Santa Cruz
Ph.D. 2017, University of Colorado, Boulder

Carol Hood, Professor of Physics and Astronomy, Associate Dean, Associate Dean
B.S. 2004, Virginia Polytechnic Institute
M.S. 2007, Ph.D. 2011, University of California, Irvine

Young Min Kim, Assistant Professor of Physics and Astronomy
B.S. 2007, B.S. 2007, Pacific Union College
M.S. 2010, Ph.D. 2013, Universität Paderborn, Germany

Katy Rodriguez Wimberly, Assistant Professor of Physics and Astronomy
B.S. 2015, California State University, Long Beach
M.S. 2019, Ph.D. 2021, University of California, Irvine

Laura M. Woodney, Professor of Physics and Astronomy
B.A. 1993, John Hopkins University
M.S. 1997, Ph.D. 2000, University of Maryland

Emeriti

Leo P. Connolly

Paul K. Dixon

Karen Kolehmainen

Paul A. Renteln

Javier Torner

Timothy D. Usher

Undergraduate Degrees

Bachelor of Arts

- Physics (p. 293)

Bachelor of Science

- Physics (p. 293)

Minors

- Applied Physics (p. 294)
- Astronomy (p. 294)
- Physics (p. 295)

Bachelor of Arts in Physics

The program for a bachelor of arts degree in physics provides basic knowledge in the main subject areas of physics as well as an opportunity for students to elect a considerable number of courses in other disciplines. This is a good choice for students planning careers in high school teaching, medical or other pre-professional schools, or other inter-disciplinary careers. The BA in Physics requires a total of 66 units listed below; of those 7 units count towards the university's General Education requirements. In addition to the General Education and the BA Physics requirements, students will need to complete 12 additional units in order to satisfy the 120 units required for graduation.

Departmental Honors

To be awarded departmental honors in physics a student must:

1. Achieve at least a 3.5 minimum grade point average in courses required for the major taken at California State University, San Bernardino and at least a 3.0 grade point average overall;
2. Conduct advanced research on a topic approved by a faculty member who will serve as project director;
3. Obtain written approval upon successful completion of the project from the project director and the chair, and present the results of the research to the department or at a research conference, and/or publish the results in a peer-reviewed scientific journal.

Requirements (66 units)

Total units required for graduation: 120

Requirements for the B.A. in Physics

(Program Code: PHYS)

Lower-division requirements (38)		
CHEM 2100	General Chemistry I	4
CHEM 2100L	General Chemistry I Laboratory	1
MATH 2210	Calculus I	4
MATH 2220	Calculus II	4
MATH 2310	Applied Linear Algebra	4
MATH 2320	Multivariable Calculus	4
PHYS 1500	Tools for Physicists	3
PHYS 2500	General Physics I	4
PHYS 2500L	General Physics I Lab	1
PHYS 2510	General Physics II	4
PHYS 2510L	General Physics II Lab	1
PHYS 2600L	Introduction to Electronics	1
PHYS 2700	Modern Physics	3
Upper-division requirements (28)		
PHYS 3100	Mathematical Methods of Physics	4
PHYS 3200	Classical Mechanics	4
PHYS 3300	Computational Physics	3
PHYS 3400	Electricity & Magnetism	3
PHYS 3500	Statistical and Thermal Physics	4
PHYS 3800	Intermediate Physics Laboratory	2
PHYS 4800	Senior Thesis	2
Can substitute ASTR 4000 for PHYS 4800; both count towards the GE WI requirement		
Six units chosen from upper-division physics courses selected with the approval of the department:		6
PHYS 3600	Data Acquisition and Control	
PHYS 4400	Electricity & Magnetism II	
PHYS 4600	Electronics	
PHYS 4700	Quantum Mechanics	
PHYS 4851-4853	Special Topics in Physics	
PHYS 4851L-4852L	Special Topics in Physics Laboratory	
PHYS 5100	Mathematical Methods of Physics II	
PHYS 5400	Optics	
PHYS 5700	Quantum Mechanics II	
PHYS 5751-5753	Internship (max 3 units)	
PHYS 5851-585	Special Topics in Physics	
PHYS 5851L-5852	Special Topics in Physics Laboratory	
PHYS 5951-5953	Independent Study (max 3 units)	
ASTR 3300	Astrophysics of Planetary Systems	
ASTR 3310	Astrophysics of Galaxies and Cosmology	
Total Units		**66**

Bachelor of Science in Physics

The bachelor of science program includes appropriate course work in physics to prepare students for employment or graduate work in a variety of physics-related fields. Students are encouraged to speak to their advisor to select elective courses that will best meet their career needs. The BS in Physics requires a total of 75 units listed below; of those 7 units count towards the university's General Education requirements.

Departmental Honors

To be awarded departmental honors in physics a student must:

1. Achieve at least a 3.5 minimum grade point average in courses required for the major taken at California State University, San Bernardino and at least a 3.0 grade point average overall;
2. Conduct advanced research on a topic approved by a faculty member who will serve as project director;
3. Obtain written approval upon successful completion of the project from the project director and the chair, and present the results of the research to the department or at a research conference, and/or publish the results in a peer-reviewed scientific journal.

Requirements (75 units)

Total units required for graduation: 120

Requirements for the B.S. in Physics

(Program Code: PHYS)

Lower-division requirements (38)		
CHEM 2100	General Chemistry I	4

CHEM 2100L	General Chemistry I Laboratory	1
MATH 2210	Calculus I	4
MATH 2220	Calculus II	4
MATH 2310	Applied Linear Algebra	4
MATH 2320	Multivariable Calculus	4
PHYS 1500	Tools for Physicists	3
PHYS 2500	General Physics I	4
PHYS 2500L	General Physics I Lab	1
PHYS 2510	General Physics II	4
PHYS 2510L	General Physics II Lab	1
PHYS 2600L	Introduction to Electronics	1
PHYS 2700	Modern Physics	3
Upper-division requirements (37)		
PHYS 3100	Mathematical Methods of Physics	4
PHYS 3200	Classical Mechanics	4
PHYS 3300	Computational Physics	3
PHYS 3400	Electricity & Magnetism	3
PHYS 3500	Statistical and Thermal Physics	4
PHYS 3800	Intermediate Physics Laboratory	2
PHYS 4400	Electricity & Magnetism II	3
PHYS 4700	Quantum Mechanics	4
PHYS 4800	Senior Thesis	2
Can substitute ASTR 4000 for PHYS 4800; both count towards the GE WI requirement		
Eight or more units chosen from upper-division physics courses selected with the approval of the department:		8
PHYS 3600	Data Acquisition and Control	
PHYS 4600	Electronics	
PHYS 4851-4853	Special Topics in Physics	
PHYS 4851L-4852L	Special Topics in Physics Laboratory	
PHYS 5100	Mathematical Methods of Physics II	
PHYS 5400	Optics	
PHYS 5500	Solid State Physics	
PHYS 5700	Quantum Mechanics II	
PHYS 5751-5753	Internship (max 3 units)	
PHYS 5851-5853	Special Topics in Physics	
PHYS 5851L-5852L	Special Topics in Physics Laboratory	
PHYS 5951-5953	Independent Study (max 3 unit)	
ASTR 3300	Astrophysics of Planetary Systems	
ASTR 3310	Astrophysics of Galaxies and Cosmology	
Total Units		**75**

Minor in Applied Physics

Requirements for a minor in Applied Physics (36 units)

Lower-division requirements (27)		
MATH 2210	Calculus I	4
MATH 2220	Calculus II	4
MATH 2310	Applied Linear Algebra	4
MATH 2320	Multivariable Calculus	4
PHYS 2500	General Physics I	4
PHYS 2500L	General Physics I Lab	1
PHYS 2510	General Physics II	4
PHYS 2510L	General Physics II Lab	1
PHYS 2600L	Introduction to Electronics	1
Upper-division requirements (9)		
PHYS 3100	Mathematical Methods of Physics	4
PHYS 3300	Computational Physics	3
PHYS 3600	Data Acquisition and Control	2
Total Units		**36**

Minor in Astronomy

The minor in astronomy is designed for any interested student with a background in calculus. Combined with a physics, geology, chemistry, or biology degree, it can give students the background needed to pursue a career or graduate degree in an astronomy related field including astrophysics, planetary science, cosmology, and more.

Requirements for a minor in Astronomy (32 units)

Lower-division requirements (23)		
ASTR 1000	Introduction to Planetary Astronomy	3
or ASTR 1010	Introduction to Galaxies and Cosmology	
ASTR 1000L	Introduction to Planetary Astronomy Lab	1
or ASTR 1010L	Introduction to Galaxies and Cosmology Lab	
ASTR 1001	Introduction to Planetary Astronomy Activity	1
or ASTR 1011	Introduction to Galaxies and Cosmology Activity	
MATH 2210	Calculus I	4
MATH 2220	Calculus II	4
PHYS 2500	General Physics I	4
PHYS 2500L	General Physics I Lab	1
PHYS 2510	General Physics II	4
PHYS 2510L	General Physics II Lab	1
Upper-division requirements (9)		
Choose one Astrophysics course:		3
ASTR 3300	Astrophysics of Planetary Systems	
ASTR 3310	Astrophysics of Galaxies and Cosmology	
Six units of electives approved by the department:		6
ASTR 3300 or ASTR 3310, whichever has not satisfied the above requirement		
ASTR 4000	Observational Astronomy	
CHEM 4500	Physical Chemistry II	
CHEM 5200	Instrumental Analysis	
CHEM 5320	Atmospheric Chemistry	
GEOL 3220	Introduction to Geochemistry	
GEOL 5420	Geochemical Thermodynamics	
Total Units		**32**

Minor in Physics

Requirements for a minor in Physics (39 units)

Lower-division requirements (29)		
MATH 2210	Calculus I	4
MATH 2220	Calculus II	4
MATH 2310	Applied Linear Algebra	4
MATH 2320	Multivariable Calculus	4
PHYS 2500	General Physics I	4
PHYS 2500L	General Physics I Lab	1
PHYS 2510	General Physics II	4
PHYS 2510L	General Physics II Lab	1
PHYS 2700	Modern Physics	3
Upper-division requirements (10)		
PHYS 3100	Mathematical Methods of Physics	4
Six units of upper-division electives approved by the department:		6
PHYS 3200	Classical Mechanics	
PHYS 3300	Computational Physics	
PHYS 3400	Electricity & Magnetism	
PHYS 3500	Statistical and Thermal Physics	
PHYS 3600	Data Acquisition and Control	
PHYS 3800	Intermediate Physics Laboratory	
PHYS 4400	Electricity & Magnetism II	
PHYS 4600	Electronics	
PHYS 4700	Quantum Mechanics	
PHYS 4800	Senior Thesis	
PHYS 4851-4853	Special Topics in Physics	
PHYS 4851L-4852L	Special Topics in Physics Laboratory	
PHYS 5100	Mathematical Methods of Physics II	
PHYS 5400	Optics	
PHYS 5500	Solid State Physics	
PHYS 5700	Quantum Mechanics II	
PHYS 5751-5753	Internship (maximum 3 units)	
PHYS 5851-5853	Special Topics in Physics	
PHYS 5851L-5852L	Special Topics in Physics Laboratory	
PHYS 5951-5953	Independent Study (maximum 3 units)	
Total Units		**39**

School of Computer Science and Engineering

Accredited by ABET (B.S. in Computer Science, BS in Computer Engineering)

Jack Brown Hall, Room 307
(909) 537-5326 Computer Science and Engineering website

Computer science is a discipline with historical foundations in science, mathematics and engineering. It is concerned with the study of a variety of topics including computer design, computer programming, information processing, data communication, machine intelligence, robotics, the algorithmic solution of problems, and the various representations of information including numeric, alphabetic, visual, audio and sensory. This discipline deals with effective ways to represent and display information, algorithms to process information, languages in which to express algorithms, hardware systems to interpret such languages, theoretical techniques for insuring the accuracy and cost effectiveness of these processes and the philosophical foundations of computing and machine intelligence.

The Bachelor of Science in Computer Science degree program is accredited by ABET/CAC. The program emphasizes the fundamentals of computer science and the skills required to apply computer science to application areas, as well as professional ethics. The objective of the program is to prepare the student upon graduation for: immediate entry into a programming, software engineering, systems and network administration or similar position in either the public or private sectors; or for graduate education in computer science or a closely related discipline leading to a master or doctoral degree.

The Bachelor of Science in Computer Engineering is accredited by ABET/EAC. Computer engineering is a discipline with historical foundations in computer science and electrical engineering. It is concerned with the study of a variety of topics including circuit design, programmable logic, computer design, computer programming, software engineering, data communication, machine intelligence, robotics, the algorithmic solutions of problems, and the various representations of information including numeric, alphabetic, visual, audio, and sensory. This discipline deals with effective ways to represent and manipulate information, algorithms to process information, hardware systems and technologies to run software, design methodologies for hardware and software systems, and engineering techniques for ensuring the accuracy and cost effectiveness of these processes.

The Bachelor of Science in Bioinformatics provides students with a background and skills useful for research and development in the growing biotechnology industries. Bioinformatics is the interdisciplinary study of biology and biochemical systems using mathematics and computer science. It involves the use of computers and statistics to make sense out of large amounts of data that are accumulating from high-throughput biological and chemical experiments, such as sequencing of whole gnomes, DNA, microarray chips, two-hybrid experiments, and tandem mass spectrometry. The bioinformatics degree program is a collaboration between the School of Computer Science and Engineering, the Department of Biology and the Department of Chemistry and Biochemistry.

The Bachelor of Arts in Computer Systems program emphasizes the application of principles to practical problem solving in a domain of interest. Students complete a core set of foundation courses and coursework in one of the following concentrations: web programming, system administration, game development, graphics programming. Students also have the ability to combine the study of computer systems with another field of study through the general interdisciplinary option.

The Minor in Computer Science is designed to give students from all academic disciplines a foundation in computing which will enrich and support the student's own field of study.

The Certificate Program in Computer Systems and Programming is a short course of study provided for those individuals who desire a career in the computer science field which does not require a formal degree.

Departmental Honors

1. Demonstration of independent work by achieving a grade of "C" (2.0) or better in a three-unit CSE 5950 (https://bulletin.csusb.edu/search/?P=CSE%205950) Independent Study or credit in CSE 5750 (https://bulletin.csusb.edu/search/?P=CSE%205750) Internship in Computer Science and Engineering;
2. Attainment of a minimum overall grade point average of 3.0 ("B") in all university courses attempted and a minimum grade point average of 3.5 in all Computer Science and Engineering (CSE) courses required by the major;
3. At least five upper-division major courses required by the major must be taken at this university.

Current Faculty

Khalil Dajani, Professor of Computer Science and Engineering, Director, Director
B.S. 1988, M.S 1991, University of Illinois
Ph.D. 2000, University of Toledo

George M. Georgiou, Professor of Computer Science and Engineering
B.S.E.E. 1985, Louisiana Tech University
M.S.E.E 1987, M.S. 1988, Louisiana State University
M.S. 1990, Ph.D. 1992, Tulane University

Yunfei Hou, Professor of Computer Science and Engineering
B.A. 2009, Xi'an Jiaotong University
M.S. 2011, Saint Cloud State University
Ph.D. 2016, University of Buffalo

Jennifer Jin, Associate Professor of Computer Science and Engineering
B.S. 2009, University of Dallas
M.S. 2011, University of California, Los Angeles
Ph.D. 2019, University of California, Irvine

Fadi Muheidat, Professor of Computer Science and Engineering
B.A. 2000, Jordan University of Science and Technology
M.S. 2015, University of Missouri, Columbia
Ph.D. 2017, University of Missouri, Columbia

Haiyan Qiao, Professor of Computer Science and Engineering
B.S. 1993, M.S. 1996, Huanzhong University, China
M.S. 2002, North Dakota State University
Ph.D. 2007, University of Arizona

Ronald Salloum, Associate Professor of Computer Science and Engineering
B.S. 2010, California State Polytechnic University, Pomona
Ph.D. 2019, University of Southern California

Qingquan Sun, Professor of Computer Science and Engineering

B.S. 2006, XI'AN University of Technology
M.S. 2012, University of Alabama
Ph.D 2013, University of Alabama

Yan Zhang, Associate Professor of Computer Science and Engineering
B.E. 2000, Lanzhou Jiaotong University
Ph.D. 2011, Beijing Jiaotong University
Ph.D. 2018, University of Regina, Canada

Emeriti

Arturo I. Concepcion

Ernesto Gomez

Josephine G. Mendoza

Owen J. Murphy

David A. Turner

Kerstin Voigt

Tong L. Yu

Kay Zemoudeh

Undergraduate Degrees

Bachelor of Arts

- Computer Systems (p. 300) with concentrations in:
  - General Interdisciplinary
  - Game Development
  - System Administration

Bachelor of Science

- Bioinformatics (p. 239)
- Computer Engineering (p. 301)
- Computer Science (p. 302)
- Data Science (p. 301)

Graduate Degree

Master of Science

- Applied Data Science (p. 297)
- Computer Science (p. 298)

Minor

- Computer Science (p. 303)
- Data Science (p. 304)

Certificates

- Artificial Intelligence and Machine Learning Applications (p. 304)
- Computer Science for K-12 Educators (p. 304)
- Computer Systems and Programming (p. 305)
- Data Science (p. 305)
- Mobile Application Development (p. 305)

Master of Science in Applied Data Science

This program aims to admit students from various backgrounds with undergraduate training in quantitative fields (e.g., engineering, physics, math, statistics). Applicants are expected to have some experience in programming and probability/statistics. The objective of this Applied Data Science program is to provide training in various aspects of the data lifecycle. Students will learn techniques in data collection, data cleaning, data integration, data management, and data visualization, as well as the theories and techniques necessary for data analysis from data mining, machine learning, information retrieval, and artificial intelligence.

In addition to the general requirements of the university, specific requirements for admission are:

- Official transcript(s) confirming at least a Bachelor's Degree from an accredited institution, preferably but not necessarily accredited by an accreditor endorsed by the Council for Higher Education Accreditation (CHEA);
- Applicants with unaccredited Bachelor's Degrees can be considered for admission on a case by case basis;
- Transcripted studies should reflect adequate preparation for study in the relevant graduate program;
- Programming experience equivalent to CSE 2020 and coursework in statistics and probability equivalent to Math 2265 and Math 3460;
- Minimum GPA of 3.0 preferred. Applicants with a GPA below 3.0 but above 2.5 will be considered on a case by case basis.

1. Achieved classified standing (i.e., not conditionally classified);

2. Completed a minimum of 12 units towards the Master’s degree;

3. Completed or currently registered in the four required core courses as a graduate student at this university;

4. Minimum grade point average of 3.0 ("B") in all courses completed towards the Master’s degree and a grade of "C" (2.0) or better in each course;

5. Formed a committee, consisting of the student's advisor and one other committee member (committee members must be tenure-track faculty members);

6. Presented and submitted a project proposal that was approved by the student’s committee;

7. Completed the Advancement to Candidacy form.

1. A minimum of 31 semester units of acceptable graduate-level work, with a minimum grade point average of 3.0 ("B") and a grade of "C" (2.0) or better in each course in the program;

2. Advancement to candidacy;

3. Successful completion of the Capstone Project (CSE 6880 or MATH 6880);

4. The program must be completed within a seven-year period. No more than seven years may elapse between the time of registration for the earliest course listed on the program and completion of all requirements for the degree;

5. Any additional general requirements not cited above and listed in Graduate Degree and Program Requirements (https://catalog.csusb.edu/graduate-degree-programs/graduate-degree-program-requirements/).

Degree Requirements (31 units)

Required Courses (12)		
CSE 6010	Foundations of Data Science	3
CSE 6300	Theory of Algorithms and Their Analysis	3
CSE 6320	Big Data Management	3
CSE 6330	Data Mining	3
Elective Courses (15)		
Choose five courses from the following list:		15
MATH 5565	Mathematical Statistics	
CSE 5140	Computational Intelligence	
CSE 5160	Machine Learning	
CSE 5720	Database Systems	
CSE 6220	Data Visualization	
CSE 6400	Artificial Intelligence	
CSE 6800	Distributed Database Management Systems	
Culminating Experience (4)		**4**
Total Units		**31**

CSE 6880	Data Science Capstone Project	4
OR		
MATH 6880	Data Science Capstone Project	4

Master of Science in Computer Science

The Master of Science in Computer Science degree program provides a technically oriented postbaccalaureate scientific education for those who wish to acquire or extend their knowledge in the field of computer science. The program combines both the study of modern computer devices and their applications along with the study of the philosophical foundations which underlie the discipline.

In addition to the above goals and objectives, the program is also committed to improving the writing and communication skills of the student.

Nearly all of the courses in the School of Computer Science and Engineering curriculum are taught in-person. However, some of the courses in these programs can be offered in different modalities (in-person, hybrid, or online), but it is not possible to take all of the program courses in online or hybrid mode. At least 75% of lower division and 60% of upper division and graduate CSE courses will be offered in-person. All courses will be offered in-person at least once per year, and courses that have multiple sections per semester will have at least one in-person section per semester.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. An acceptable score on the GRE (general examination only);
2. A statement of purpose from the student; and
3. Either A or B below:
   a. A baccalaureate degree in computer science or computer engineering;
   b. A baccalaureate degree in a related field with a cumulative grade point average of "B" (3.0) or better with no grade lower than "C +" (2.3) in a selection of program preparatory courses including:

   The equivalent of a one-year sequence of "Introduction to Computer Science" courses, as defined by the ACM Curriculum Committee as courses CS1 and CS2. This can be satisfied by successful completion of courses equivalent to:

CSE 2010	Computer Science I	4
CSE 2020	Computer Science II	4
Courses in calculus, discrete mathematics and linear algebra equivalent to:		
MATH 2720	Discrete Mathematics	3
MATH 2210	Calculus I	4
MATH 2220	Calculus II	4
MATH 2310	Applied Linear Algebra	4
Courses in computer science equivalent to:		
CSE 3100	Digital Logic	4
CSE 4010	Contemporary Computer Architecture	4
CSE 4600	Operating Systems	3
CSE 5000	Introduction to Formal Languages and Automata Theory	3
or CSE 5700	Compilers	

Applicants who have not completed the above courses may still be considered for conditional admission.

Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Secured a major advisor from the School of Computer Science and Engineering for the preparation of the thesis or the implementation of a project;
3. Completed at least 9 semester units and no more than 15 semester units of work applicable to the degree program as a graduate student at this university with a minimum grade point average of 3.0 ("B");
4. Submitted a formal program of graduate study prepared in consultation with and approved by the School of Computer Science and Engineering graduate committee and/or the major advisor. This program of graduate study should include an abstract to serve as a thesis research proposal for Thesis or a tentative title and description of the project for Master Project, or enrollment in CSE 6890 and CSE 6980 for the comprehensive written exam;
5. For students choosing Master Project, satisfactory passage of the comprehensive oral examination to be administered by the graduate committee;
6. Obtained final approval of the program and of the candidacy itself by the School of Computer Science and Engineering graduate committee and the Dean of Graduate Studies.

Requirements for Graduation

1. A minimum of 31 semester units of acceptable graduate-level work included in the formal program with 5000- and 6000-level courses in computer science, with 22 units completed in residence at this university. No more than nine units may be earned from 5000-level courses;
2. Advancement to candidacy and approval of the specific program of study;
3. A public presentation for the thesis or project option;
4. Completion of a final oral examination concluded by acceptance of the thesis, for the thesis option; satisfactory completion of the comprehensive oral examination and completion of the project, for the project option; or satisfactory completion of the comprehensive written examination, for the examination option;
5. The program must be completed within a seven-year period. No more than seven years may elapse between the time of registration for the earliest course listed on the program and completion of all requirements for the degree;
6. A grade point average of at least 3.0 ("B") in all graduate course work fulfilling the requirements of the Master of Science in Computer Science and a grade of "C" (2.0) or better in each course in the program;
7. For the thesis option, the student will submit the written thesis in electronic form to the school. For the project option, the student will submit the written software engineering documentation in electronic form to the school;
8. The graduation writing requirement is met upon successful completion of term papers in the graduate courses taken by the student and the writing of the thesis or software engineering documentation of the project;
9. Any additional general requirements not cited above and listed in Graduate Degree and Program Requirements (p. 74).

Department Graduate Committee and Major Advisor

The School of Computer Science and Engineering graduate committee consists of the graduate coordinators and two or more faculty members from the School of Computer Science and Engineering. The committee has general supervision over the work of students progressing towards the master's degree and will determine whether students are adequately prepared for graduate study. Each new graduate student should consult with the graduate coordinator for advice in the selection of the appropriate program of graduate study.

Students enrolled in the thesis or project option must choose and be accepted by a major advisor prior to their advancement to candidacy and the initiation of a thesis or project. The major advisor in consultation with the student will develop a program of graduate study consisting of specific courses and an acceptable thesis abstract or project proposal based on the student's interest, abilities and preparation. The major advisor will direct this research.

The program of graduate study as well as any subsequent modification of the thesis or project are subject to the approval of the School of Computer Science and Engineering graduate committee and the Dean of Graduate Studies.

Students enrolled in Comprehensive Examination are advised by the graduate coordinator. The program of study for Comprehensive Examination consists of declaring and choosing the Comprehensive Exam and may not be modified to Thesis or Master Project.

Thesis Preparation, Presentation and Examination

The student must conduct a research study, and from these efforts, write a thesis acceptable to the student's thesis committee and the Dean of Graduate Studies. The student's thesis committee shall be chaired by the major advisor and two other faculty members who are chosen by the student upon consultation with the major advisor and the graduate coordinator. The thesis topic and major advisor must be included on the program of graduate study submitted with the application to candidacy, although this may be amended.

The student shall enroll in Thesis at a rate of two to five units per semester for all contiguous academic year semesters starting from the time of advancement to candidacy until the thesis is completed and accepted. Over that period, seven units of Thesis will count toward the degree.

The student, upon completion of the thesis, must give a public presentation of the research and stand for the defense of the thesis before the faculty made up of the thesis committee and any other faculty members who wish to attend. The student is given a maximum of five years from the time the student was advanced to candidacy to finish the degree.

Project Preparation, Presentation and Examination

The student must implement and complete a project acceptable to the student's project committee and the Dean of Graduate Studies. The student's project committee shall be chaired by the major advisor and two other faculty members who are chosen by the student after consultation with the major advisor and the graduate coordinator.

The project topic and major advisor must be included on the program of graduate study submitted with the application to candidacy, although this may be amended.

The student shall enroll in Master Project at the rate of two or four units per semester for all contiguous academic semesters starting from the time of advancement to candidacy until the project is completed and accepted. Over that period, four units of Master Project will count toward the degree.

The student, upon completion of the project, must give a public presentation. The student is given a maximum of five years from the time the student was advanced to candidacy to finish the degree.

Comprehensive Written Examination

The student shall enroll in CSE 6890 and CSE 6980 after consultation with the graduate coordinator and completion of the last core course(s). CSE 6890 is a graduate seminar in preparation of the comprehensive examination CSE 6980 and CSE 6980 may be repeated only once. Students enrolled in CSE 6980 must pass a written examination on the material in the core courses.

Degree Requirements (31 units)

(Program Code: CSCM)

Required Courses (15)

CSE 6020	Computation and Complexity Theory	3
CSE 6100	Modern Computer Architecture	3
CSE 6300	Theory of Algorithms and Their Analysis	3

CSE 6550	Software Engineering Concepts	3
CSE 6600	Operating Systems Concepts and Theory	3
In rare instances past 5000-level course work may preclude a student from enrolling in a required course. In that case, the student must seek advising by the graduate coordinator who will determine a viable alternative.		
Culminating Experience (16)		
Sixteen units from one of the following options:		16
Total Units		**31**

Culminating Experience (16 units)

Examination Option (16 units)

CSE 6890	Graduate Seminar	1
CSE 6980	Comprehensive Examination	0
15 units of elective coursework chosen from 5000- to 6000-level computer science courses deemed appropriate by the department graduate committee. Up to 9 units of 5000-level computer science courses may be taken.		15
Total Units		**16**

Project Option (16 units)

CSE 6962	Masters Project (for a total of 4 units)	4
or CSE 6964	Masters Project	
12 units of elective coursework chosen from 5000- to 6000-level computer science courses deemed appropriate by the department graduate committee. Up to nine units of 5000-level computer science courses may be taken.		12
Total Units		**16**

Thesis Option (16 units)

Six units chosen from:		6
CSE 6972	Thesis	
CSE 6973	Thesis	
CSE 6974	Thesis	
CSE 6976	Thesis	
10 units of elective coursework chosen from 5000- to 6000-level computer science courses deemed appropriate by the department graduate committee.		10
Total Units		**16**

Bachelor of Arts in Computer Systems

The Bachelor of Arts (BA) in Computer Systems program emphasizes the application of principles to practical problem solving in a domain of interest. Students complete a core set of foundation courses and courses in one of the following concentrations: system administration, game development, and general interdisciplinary.

Nearly all of the courses in the School of Computer Science and Engineering curriculum are taught in-person. However, some of the courses in these programs can be offered in different modalities (in-person, hybrid, or online), but it is not possible to take all of the program courses in online or hybrid mode. At least 75% of lower division and 60% of upper division and graduate CSE courses will be offered in-person. All courses will be offered in-person at least once per year, and courses that have multiple sections per semester will have at least one in-person section per semester.

Degree Requirements (60-67 units)

Total units required for graduation: 120

Lower-division requirements (21)		
CSE 2010	Computer Science I	4
CSE 2020	Computer Science II	4
CSE 2130	Machine Organization	3
MATH 2210	Calculus I	4
MATH 2265	Statistics with Applications	3
MATH 2372	Discrete Mathematics	3
Upper-division requirements (12)		
CSE 4050	Web Application Development	3
CSE 4500	Platform Computing	3
CSE 4550	Software Engineering	3
CSE 4880	Ethics Senior Seminar	3
Ethics Senior Seminar will count towards the GE Writing Intensive Requirement.		
Electives (9)		
Nine units chosen from CSE courses numbered 3000 and above, excluding CSE 3900 to CSE 3904.		9
Concentration (18-25)		
Students must satisfy the requirements of one of the concentrations listed below:		18-25
Total Units		**60-67**

Concentrations (18-25 units)

General Interdisciplinary Concentration (18 units)

(Program Code: CSGI)

Three units chosen from CSE courses numbered 3000 and above, excluding CSE 3900 to CSE 3904.		3
Fifteen units of coursework in another discipline such as a minor or other cohesive program of study; subject to approval by the School of Computer Science and Engineering.		15
Total Units		**18**

Game Development Concentration (25 units)

(Program Code: CSGD)

MATH 2220	Calculus II	4
MATH 2310	Applied Linear Algebra	4
PHYS 2500 & 2500L	General Physics I and General Physics I Lab	5
or PHYS 2000 & 2000L	Introduction to Physics I and Introduction to Physics I Lab	
CSE 4200	Computer Graphics	3
CSE 4410	Game Programming	3
CSE 4400	Game Design	3

Three units of supporting coursework such as 3D modeling, animation, level design, image editing, and other coursework related to game development. Subject to approval by the School of Computer Science and Engineering.	3
Total Units	**25**

System Administration Concentration (23 units)

(Program Code: CSSA)

CSE 3100	Digital Logic	4
CSE 3650	Systems Administration I	3
CSE 3660	Systems Administration II	3
CSE 4010	Contemporary Computer Architecture	4
CSE 4600	Operating Systems	3
CSE 5720	Database Systems	3
Three units chosen from CSE courses numbered 3000 and above, excluding CSE 3900 to CSE 3904.		3
Total Units		**23**

Bachelor of Science in Computer Engineering

Nearly all of the courses in the School of Computer Science and Engineering curriculum are taught in-person. However, some of the courses in these programs can be offered in different modalities (in-person, hybrid, or online), but it is not possible to take all of the program courses in online or hybrid mode. At least 75% of lower division and 60% of upper division and graduate CSE courses will be offered in-person. All courses will be offered in-person at least once per year, and courses that have multiple sections per semester will have at least one in-person section per semester.

Students in this degree program do not need to take courses in the General Education categories Critical Thinking, Biological Science, and Social and Behavioral Sciences.

Degree Requirements (92 units)

Total units required for graduation: 120

(Program Code: COEN)

Lower-division requirements (39)		
CSE 2010	Computer Science I	4
CSE 2020	Computer Science II	4
CSE 2130	Machine Organization	3
MATH 2210	Calculus I	4
MATH 2220	Calculus II	4
MATH 2265	Statistics with Applications	3
MATH 2310	Applied Linear Algebra	4
MATH 2372	Discrete Mathematics	3
PHYS 2500	General Physics I	4
PHYS 2500L	General Physics I Lab	1
PHYS 2510	General Physics II	4
PHYS 2510L	General Physics II Lab	1
Upper-division requirements (44)		
CSE 3100	Digital Logic	4
CSE 3350	Signals and Systems	3
CSE 4010	Contemporary Computer Architecture	4
CSE 4030	Analog Circuit Design and Analysis	4
CSE 4100	Computer Networking and Security	3
or CSE 5300	Data Communications	
CSE 4560	Embedded Systems	4
CSE 4600	Operating Systems	3
CSE 5208	Introduction to Computer Engineering Design	4
CSE 5210	Digital System Design	4
CSE 5350	Numerical Computation	3
or CSE 4310	Algorithm Analysis	
CSE 5408	Sustainable Engineering Design *	4
CSE 5410	Robotics and Control	4
Electives (9)		
Nine units chosen from CSE 4000-level and above courses and not previously taken.		9
Total Units		**92**

* Satisfies GE Upper Division Mathematical Concepts and Quantitative Reasoning.

Bachelor of Science in Data Science

Pending Office of the Chancellor approval

Data Science is an interdisciplinary field that addresses the collection, management, analysis, and interpretation of datasets. By combining foundations in computer science, mathematics, and domain-specific applications, this program prepares students to extract actionable insights and drive data-informed decisions.

The B.S. in Data Science is offered jointly by the School of Computer Science and Engineering and the Department of Mathematics. Courses cover both theoretical and practical aspects, preparing students for careers or graduate studies in data-intensive sectors. All undergraduates must meet with an advisor at least once a year.

Degree Requirements (70)

Total units required for graduation: 120

Lower-division requirements (34)		
CSE 1300 & 1300L	Introduction to Data Science and Introduction to Data Science Lab	4
CSE 2010	Computer Science I	4
CSE 2020	Computer Science II	4
MATH 2210	Calculus I	4
MATH 2220	Calculus II	4
MATH 2265	Statistics with Applications	3
MATH 2310	Applied Linear Algebra	4
MATH 2320	Multivariable Calculus	4
MATH 2372	Discrete Mathematics	3
Upper-division requirements (24)		

MATH 3460	Probability Theory	3
MATH 4360	Linear Statistical Models	3
MATH 5560	Special Topics in Statistics and Data Science	3
CSE 4880	Ethics Senior Seminar	3
CSE 5160	Machine Learning	3
or MATH 5360	Statistical Methods for Machine Learning	
CSE 5350	Numerical Computation	3
CSE 5360	Data Visualization	3
CSE 5720	Database Systems	3
Electives (12)		
Twelve units chosen from CSE 4000-level, MATH 4000-level or above courses not previously taken, or courses related to data science from other disciplines; subject to approval by the School of Computer Science and Engineering.		12
Total Units		**70**

Bachelor of Science in Bioinformatics

Bioinformatics is an interdisciplinary field that develops methods and software tools for understanding biological data. As an interdisciplinary field of science, bioinformatics combines computer science, statistics, mathematics, and engineering to analyze and interpret biological data.

Requirements (72 units)

Total units required for graduation: 120

Requirements for the B.S. in Bioinformatics

(Program Code: BINF)

Lower-division requirements (50)		
BIOL 2010	Principles of Biology I	5
BIOL 2020	Principles of Biology II	5
CSE 2010	Computer Science I	4
CSE 2020	Computer Science II	4
CHEM 2100	General Chemistry I	4
CHEM 2100L	General Chemistry I Laboratory	1
CHEM 2200	General Chemistry II	4
CHEM 2200L	General Chemistry II Laboratory	1
CHEM 2300	Organic Chemistry for Life Sciences	4
MATH 2210	Calculus I	4
MATH 2220	Calculus II	4
MATH 2265	Statistics with Applications	3
MATH 2310	Applied Linear Algebra	4
MATH 2720	Discrete Mathematics	3
Upper-division requirements (22)		
BIOL 3120	Molecular Biology	4
CHEM 4100	Biochemistry I	3
CSE 4310	Algorithm Analysis	3
CSE 4880	Ethics Senior Seminar	3
CSE 5160	Machine Learning	3
CSE 5500	Advanced Bioinformatics I: Sequence Analysis	3
CSE 5720	Database Systems	3
Total Units		**72**

Bachelor of Science in Computer Science

Nearly all of the courses in the School of Computer Science and Engineering curriculum are taught in-person. However, some of the courses in these programs can be offered in different modalities (in-person, hybrid, or online), but it is not possible to take all of the program courses in online or hybrid mode. At least 75% of lower division and 60% of upper division and graduate CSE courses will be offered in-person. All courses will be offered in-person at least once per year, and courses that have multiple sections per semester will have at least one in-person section per semester.

Students in this degree program do not need to take courses in the General Education categories Critical Thinking, Biological Science, and Social and Behavioral Sciences.

Degree Requirements (89)

Total units required for graduation: 120

(Program Code: CSCI)

Lower-division requirements (39)		
CSE 2010	Computer Science I	4
CSE 2020	Computer Science II	4
CSE 2130	Machine Organization	3
MATH 2210	Calculus I	4
MATH 2220	Calculus II	4
MATH 2265	Statistics with Applications	3
MATH 2310	Applied Linear Algebra	4
MATH 2372	Discrete Mathematics	3
PHYS 2500	General Physics I	4
PHYS 2500L	General Physics I Lab	1
PHYS 2510	General Physics II	4
PHYS 2510L	General Physics II Lab	1
Upper-division requirements (50)		
CSE 3100	Digital Logic	4
CSE 4010	Contemporary Computer Architecture	4
CSE 4100	Computer Networking and Security	3
CSE 4310	Algorithm Analysis	3
CSE 4550	Software Engineering	3
CSE 4600	Operating Systems	3
CSE 4880	Ethics Senior Seminar [*+]	3
CSE 5000	Introduction to Formal Languages and Automata Theory	3
CSE 5120	Introduction to Artificial Intelligence	3
or CSE 5140	Computational Intelligence	
or CSE 5160	Machine Learning	
CSE 5250	Parallel Algorithms and Programming	3
CSE 5700	Compilers	3

CSE 5720	Database Systems	3
Twelve units chosen from CSE 4000-level and above courses and not previously taken.		12
Total Units		**89**

* Satisfies GE Upper Division Mathematical Concepts and Quantitative Reasoning.
\+ Satisfies GE Writing Intensive requirement.

Minor in Computer Science

Courses taken in fulfillment of the minor in Computer Science cannot be applied toward the Certificate in Computer Systems and Programming.

Nearly all of the courses in the School of Computer Science and Engineering curriculum are taught in-person. However, some of the courses in these programs can be offered in different modalities (in-person, hybrid, or online), but it is not possible to take all of the program courses in online or hybrid mode. At least 75% of lower division and 60% of upper division and graduate CSE courses will be offered in-person. All courses will be offered in-person at least once per year, and courses that have multiple sections per semester will have at least one in-person section per semester.

Requirements for a minor in Computer Science (20 units)

MATH 2372	Discrete Mathematics	3
or MATH 3372	Combinatorics	
CSE 2010	Computer Science I	4
CSE 2020	Computer Science II	4
Nine units of upper-division CSE courses, excluding CSE 3900 to CSE 3904.		9
Total Units		**20**

Minor in Data Science

The Data Science minor is designed to provide students with hands-on experience of the concepts and techniques used in data science, including statistical methodology and data-oriented computing. The minor will provide students from all majors (including science, business, humanities, social sciences, education etc.) with the foundational skills to collect, process, analyze data, and think critically about data-driven problems in their respective disciplines. The minor has a requirement of 32 credits, consisting of 6 required courses (26 units) and 2 elective courses (6 units).

Requirements for a minor in Data Science (32 units)

Required Courses (26)		
CSE 1300 & 1300L	Introduction to Data Science and Introduction to Data Science Lab	4
CSE 2010	Computer Science I	4
CSE 2020	Computer Science II	4
MATH 2210	Calculus I	4
MATH 2220	Calculus II	4
MATH 2265	Statistics with Applications	3
Choose one of the following courses:		3
CSE 5160	Machine Learning	
MATH 5360	Statistical Methods for Machine Learning *	
Electives (6)		
Choose two courses from the following list:		6
MATH 3465	Computational Statistics *	
MATH 4360	Linear Statistical Models *	
CSE 5120	Introduction to Artificial Intelligence	
CSE 5720	Database Systems	
Total Units		**32**

*Note course have prerequisites. Completion of prerequisites or consent of instructor required.

Certificate in Artificial Intelligence and Machine Learning Applications

The Certificate in Artificial Intelligence and Machine Learning Applications is an interdisciplinary program designed to provide students from all academic backgrounds with a solid foundation in the principles, techniques, and applications of Artificial Intelligence (AI). This program aims to equip students with the knowledge and skills necessary to understand, apply, and critically evaluate AI technologies in their respective fields. The key features of the program include:

1. Foundational courses: Introduction to AI, Machine Learning basics, and Ethics in AI.
2. Practical skills: Hands-on experience with AI tools, programming languages, and frameworks.
3. Interdisciplinary approach: Exploration of AI applications across various domains such as business, healthcare, social sciences, and the arts.
4. Cutting-edge topics: Coverage of emerging AI technologies like deep learning, natural language processing, and computer vision.

This certificate program is ideal for students who want to complement their major with AI expertise, enhancing their career prospects in an increasingly AI-driven world. Upon completion, students will be well-prepared to leverage AI technologies in their chosen professions or pursue advanced studies in AI-related fields.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (30)

Required Courses (24)		
CSE 2010	Computer Science I	4
CSE 2020	Computer Science II	4
MATH 2210	Calculus I	4
MATH 2265	Statistics with Applications	3
MATH 2372	Discrete Mathematics	3
CSE 5120	Introduction to Artificial Intelligence	3
CSE 5160	Machine Learning	3
Electives (6)		
Choose two specialized AI topics from the following list:		6
CSE 4160	Generative AI and Applications	
CSE 5420	Reinforcement Learning	
CSE 5430	Deep Learning	
CSE 5460	Natural Language Processing	
CSE 5720	Database Systems	
Total Units		**30**

Certificate in Computer Science for K-12 Educators

Provides training for K-12 educators to teach computer science subjects. The program will cover certain content areas in accordance with the guidelines specified by the California Commission on Teacher Credentialing (CTC). The program offers two pathways to obtain supplementary authorization in computer science: (1) Specific Authorization and (2) Introductory Authorization.

Introductory supplementary authorizations added to a Single Subject, Standard Secondary, or Special Secondary (in academic subject areas only) Teaching Credential authorize the holder to teach the supplementary subject matter content typically included in curriculum guidelines and

textbooks for study in grades 9 and below. This allows an employer to assign a teacher with an introductory supplementary authorization to teach a class in which the curriculum is for grades 9 and below but the students in the class may be in grades 10-12. Introductory supplementary authorizations added to a Multiple Subject or Standard Elementary Teaching Credential authorize the holder to teach departmentalized classes related to the supplementary authorization listed on their credential in grades 9 and below. Specific supplementary authorizations may be added to Single Subject, Standard Secondary and Special Secondary (academic subject areas only) Teaching Credentials and authorize the holder to teach the specific subject in grades preschool, kindergarten-12, and classes organized primarily for adults.

The required courses for Specific Authorization are:

CSE 3901	Computer Programming for Educators	3
CSE 3902	Data Structures and Algorithms for Educators	3
CSE 3903	Software Development for Educators	3
CSE 3904	Information and Communication Technologies and Social Implications	3

The required courses for Introductory Authorization are:

CSE 3900	Computational Thinking and Block-based / Visual Programming for Educators	3
CSE 3901	Computer Programming for Educators	3
CSE 3903	Software Development for Educators	3
CSE 3904	Information and Communication Technologies and Social Implications	3

Certificate in Mobile Application Development

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (20 units)

CSE 2010	Computer Science I	4
CSE 2020	Computer Science II	4
CSE 4050	Web Application Development	3
CSE 4500	Platform Computing	3
A minimum of 6 units chosen from:		6
CSE 4100	Computer Networking and Security	
CSE 4200	Computer Graphics	
CSE 4400	Game Design	
CSE 4410	Game Programming	
CSE 4550	Software Engineering	
CSE 5720	Database Systems	
Total Units		**20**

Note: CSE 4200 Computer Graphics has a prerequisite of MATH 2310 Applied Linear Algebra. If this option is chosen, the certificate would be 20-24 units.

Certificate in Computer Systems and Programming

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Courses taken in fulfillment of the Certificate cannot be applied toward a Minor in Computer Science.

Nearly all of the courses in the School of Computer Science and Engineering curriculum are taught in-person. However, some of the courses in these programs can be offered in different modalities (in-person, hybrid, or online), but it is not possible to take all of the program courses in online or hybrid mode. At least 75% of lower division and 60% of upper division and graduate CSE courses will be offered in-person. All courses will be offered in-person at least once per year, and courses that have multiple sections per semester will have at least one in-person section per semester.

Certificate Requirements (20 units)

CSE 2010	Computer Science I	4
CSE 2020	Computer Science II	4
MATH 2372	Discrete Mathematics	3
Nine units of upper-division CSE courses, excluding CSE 3900 to CSE 3904.		9
Total Units		**20**

Certificate in Data Science

Data Science Certificate Program Objectives

1. Enhance the skill-set of students to improve their marketability in the job market

2. Streamline accessibility of classes by building prerequisites within the program and offering them in online format
3. Serve current CSUSB students/recent graduates and working professionals with a background in Math and/or Computer Science looking to update/expand their skill sets
4. Provide hands-on experience with statistical packages and Big Data tools through coursework
5. Be able to communicate effective statistical concepts orally and in writing

Data Science Certificate Program Outcomes

1. Develop proficient users of various Data Analysis tools
2. Use statistical data analysis techniques to solve Data Analytics and Data Science problems
3. Design and develop Data Analytics projects effectively

Pre-requisites include satisfying one of the following:

Group A: Completion of the following courses for currently matriculated undergraduates:

CSE 2010	Computer Science I	4
MATH 2210	Calculus I	4
MATH 2220	Calculus II	4
MATH 2310	Applied Linear Algebra	4
MATH 2320	Multivariable Calculus	4
MATH 3460	Probability Theory	3

Group B: Completion of a BA or BS in Data Science, Computer Science, Mathematics, or a related field. Admission is determined on an individual basis based on course work and background. Please contact us for more information at (909) 537-5326.

Additional Information

Students who complete the certificate program will have the option of continuing their education in the CSUSB Master of Science (MS) in Applied Data Science program as the certificate program includes some of the required coursework in the MS in Applied Data Science curriculum.

Certificate Requirements (19 units)

CSE 2020	Computer Science II *	4
MATH 2265	Statistics with Applications	3
MATH 3465	Computational Statistics *	3
MATH 5360	Statistical Methods for Machine Learning *	3
CSE 5160	Machine Learning	3
CSE 5720	Database Systems	3
Total Units		**19**

*Note course has prerequisites. Completion of prerequisites or instructor consent required.

College of Social and Behavioral Sciences

Christina M. Hassija, Dean
Andrea Schoepfer, Associate Dean

Deirdre Thomas, Assistant Dean of Strategic Initiatives and Student Success
Thomas Long, Assistant Dean

Social and Behavioral Sciences Building, Room 207
(909) 537-7500 College of Social and Behavioral Sciences website (http://csbs.csusb.edu/)

Departments/Schools

- Anthropology (http://anthropology.csusb.edu/)
- Child, Adolescent, and Family Studies (p. 321)
- Criminology and Criminal Justice (http://criminaljustice.csusb.edu/)
- Economics (http://economics.csusb.edu/)
- Ethnic Studies (https://www.csusb.edu/ethnic-studies/)
- Geography and Environmental Studies (https://www.csusb.edu/geography/)
- History (http://history.csusb.edu/)
- Political Science (http://polisci.csusb.edu/)
- Psychology (http://psychology.csusb.edu/)
- School Social Work (http://socialwork.csusb.edu/)
- Sociology (http://csbs.csusb.edu/sociology/)

Current Faculty

Aaron Brown, Assistant Professor of Ethnic Studies
M.A. 2019, University Of California, Riverside
Ph.D. 2022, University Of California, Riverside

Beyaja Notah, Assistant Professor of Ethnic Studies
B.A. 2010, M.A., Ph.D. 2023, University of California, Riverside

Undergraduate Degrees

Bachelor of Arts

- Social Sciences (p. 311) with concentrations in:
  - Economics
  - Geography
  - Political Science
  - Psychology
  - Sociology
- Social Sciences (p. 476) (online option available through the College of Extended and Global Education)

Graduate Degree

Master of Arts

- National Security Studies (p. 308)

Master of Science

- National Cyber Security Studies (p. 309)

Minors

- Aerospace Studies (p. 312)
- Islamic and Middle Eastern Studies (p. 312)

The university offers a minor and certificate program in Islamic and Middle Eastern Studies, overseen by the Center for the Study of Muslim and Arab Worlds. The course work provides students with a broad introduction

to Middle Eastern Studies, creating a foundation for students to pursue advanced study or possible employment in related fields. The curriculum is multidisciplinary, bringing together a diverse faculty of specialists from the departments of Anthropology, Communication Studies, History, Humanities, Political Science and World Languages and Literatures. Core courses focus on the politics, culture and history of the Middle East. Students then select courses in a variety of fields that reflect the dynamic inter-relationship of cultures in the Middle East.

Certificates

Diversity, Equity and Inclusion (p. 314)

Islamic and Middle Eastern Studies (p. 314)

Native Nations/Indigenous Peoples Studies (p. 315)

Programs

Aerospace Studies (Air Force ROTC) (p. 315)

Military Science (Army ROTC) (p. 316)

Master of Arts in National Security Studies

The Master of Arts in National Security Studies is a professionally oriented, interdisciplinary, graduate-level program housed within the College of Social and Behavioral Sciences. The program is designed to develop an understanding of the substance and principles of strategic studies, including defense policy analysis, intelligence analysis, strategic planning, regional security, and terrorism in relation to the contemporary international environment. Flexibility within elective courses permits the student to emphasize research in national security issues of their special interests.

The program is relevant to established career personnel in foreign and defense policy, federal and regional law enforcement, the civil service, intelligence community, and the private sector. Additionally, the program is structured to provide motivated persons holding a Bachelor of Arts degree and/or Bachelor of Science degree from an accredited institution with the higher educational skills necessary for entry into the above-mentioned career fields or to pursue doctoral studies.

The program was designated an Intelligence Community Center of Academic Excellence (IC CAE) in 2006 by the Office of the Director of National Intelligence (ODNI).

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A baccalaureate degree from an accredited college or university;
2. A minimum cumulative undergraduate grade point average of at least 2.5 overall and at least 3.0 ("B") in the student's undergraduate major;
3. Submission to the National Security Studies Admissions Committee of a brief statement (one or two double-spaced typewritten pages) of the student's preparation for graduate study and professional aspirations following receipt of the master's degree. This statement further serves as a graduate entrance writing requirement;
4. Submission of two evaluations from individuals familiar with the student's academic or professional work and potential to complete the program successfully. Evaluation prompts must come directly through the Cal State Apply system.

Students who meet the requirements for admission to graduate study, but who do not meet the program requirements, may be admitted to graduate study in unclassified postbaccalaureate status or to the program in conditionally classified graduate standing. When the specified deficiencies are removed, student status is changed from conditionally classified to classified. (Unclassified postbaccalaureate students may enroll, when space is available, in selected graduate courses.) No more than 9 semester units of national security studies course work taken as an unclassified or conditionally classified graduate student may be applied to the program as a classified graduate student.

Advancement to Candidacy

To be advanced to candidacy, a student must have:

1. Achieved classified status;
2. Completed at least 18 semester units of national security studies program course work at this university, and achieved a minimum grade point average of 3.0 ("B") in those courses;
3. Filed a graduate program approved by the student's advisor, the national security studies program coordinator and the Dean of Graduate Studies.

Requirements for Graduation

1. A minimum of 30 semester units of acceptable graduate-level work, with at least 24 semester units completed in residence at California State University, San Bernardino;
2. A grade point average of at least 3.0 ("B") in all national security studies program courses taken;
3. Choose Option A or B:
   a. Completion of acceptable comprehensive final written and oral examinations;
   b. Completion and defense of an original master's thesis.
4. The graduation writing requirement will be satisfied by achieving a minimum grade point average of 3.0 ("B") in the two core courses listed below. Each core course will allow the student to develop competence in various forms of writing traditional to the field. These are:
   a. Critical reviews (PSCI 6000),
   b. Article length essay (PSCI 6020) and the process of "peer review".
5. Any additional general requirements not cited above and listed in Graduate Degree and Program Requirements (p. 74).

Classified graduate students in the Master of Arts program must complete their degree requirements within five years of admission to the program. Students in classified status who fail to register for at least one course in the program each semester will automatically be declassified. PSCI 6980-6986, Continuous Enrollment for Graduate Candidacy Standing, must be taken if another course is not taken during a given semester.

The Master of Arts in National Security Studies is a thesis option course of study requiring either written and oral comprehensive examinations (to be taken in the last semester of program course work) or a thesis. Students with less than a 3.0 grade point average in the program will not be permitted to take the examinations or propose a thesis. All students are required to take the prerequisite and core courses.

Comprehensive Examination

The comprehensive examination committee for each candidate will consist of three faculty members from the department. The examinations will be graded credit/no credit.

An oral examination by the student's committee follows successful completion of the written examination. The oral examination is open for public attendance, but not participation. Should the candidate fail one or more written or oral examination areas, the entire oral or written examination may be repeated one time after any required remedial course work or study is completed. The scope and deadline for completion of this remedial work will be determined by the student's examination committee at a post-examination conference.

Students must enroll in PSCI 6980 - the Political Science Comprehensive Examination..

Thesis

The criteria for determining who will be allowed to choose the thesis option will be determined by the proposed thesis committee. After completion of a minimum of 15 semester units, the student will request

three faculty to form a preliminary committee, at least two of whom have instructed a course that the student has taken in the program.

Degree Requirements (30-33 Units)

(Program Code: NTSS)

Core Courses (18)		
PSCI 4840	National Security Policy	3
PSCI 5920	Seminar in Government (Research Methods)	3
PSCI 6000	Theory and History of Strategy	3
PSCI 6020	International Security	3
PSCI 6210	Intelligence Assessments and Estimates	3
PSCI 6250	American Foreign Policy	3
Electives (12)		
Choose 12 units from the following:		12
ECON 6303	International Economic Issues	
GEOG 6100	Military Geography for National Security	
HIST 5560	Foreign Relations of the United States	
MATH 6411	Operations Analysis	
PSCI 5400	Seminar in Comparative Politics (Middle East Politics)	
PSCI 5400	Seminar in Comparative Politics (African Dictatorships)	
PSCI 5400	Seminar in Comparative Politics (East Asian Politics)	
PSCI 5400	Seminar in Comparative Politics (Latin American Politics)	
PSCI 5900	Seminar in International Relations (Techniques of Intelligence Analysis)	
PSCI 5900	Seminar in International Relations (Terrorism in Africa)	
PSCI 5900	Seminar in International Relations (Intelligence Ethics)	
PSCI 5900	Seminar in International Relations (US - Israel Relations)	
PSCI 5900	Seminar in International Relations (Cases in Strategy)	
PSCI 6010	Strategic Systems and Strategic Thought	
PSCI 6030	Cyber Security and Cyber Warfare	
PSCI 6040	Seminar in International Law	
PSCI 6050	Topics in Strategy:	
PSCI 6060	Analysis of International Terrorism	
PSCI 6090	International Relations Theory	
PSCI 6110	Regional Security of Eurasia	
PSCI 6120	African Security	
PSCI 6130	Middle East Security	
PSCI 6140	Regional Security of East Asia	
PSCI 6200	Understanding Intelligence Failure	
PSCI 6220	Arms Control	
PSCI 6240	Politics of National Security	
SSCI 6950	Directed Graduate Studies	
Culminating Experience (0-3)		**0-3**
Total Units		**30-33**

Internship

Some internships in government service are occasionally available on a competitive basis. Other nonprofit research internships are available.

Transfer Credit

A maximum of 6 semester hours of acceptable postbaccalaureate credit taken at an accredited institution of higher learning may be applied toward the requirements for the M.A. in National Security Studies. Selected Department of Defense courses (War College, Command and Staff College and Squadron Officers School) have been approved for transfer credit. Determination of acceptability of transfer credit requests is made upon receipt of official transcripts by the Office of the Registrar and upon recommendation of the coordinator of the national security studies program.

Culminating Experience (0-3)

Students must complete one of the following:

Choose one from:		0-3
PSCI 6973	Thesis [1]	
PSCI 6980	Comprehensive Examination	
Total Units		**0-3**

[1] Thirty six units of course work and three units of thesis must be completed before the degree will be awarded.

Master of Science in National Cyber Security Studies

The Master of Science in National Cyber Security Studies will prepare students for careers in the field of cyber security and intelligence analysis.

The program is designed for students who are interested in developing the professional skills necessary to understand cyber security threats and communicate strategic intelligence effectively to decision-makers in government, the military, law enforcement and the private sector. No prior technical experience is required in the field of cyber security and the degree is open to students from any academic background.

The National Cyber Security Studies program is part of the Intelligence Community Center of Academic Excellence (IC CAE) at CSUSB, which was awarded in 2006 by the Office of the Director of National Intelligence (ODNI).

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A baccalaureate degree from an accredited college or university;
2. A minimum cumulative undergraduate grade point average of at least 2.5 overall and at least 3.0 ("B") in the student's undergraduate major;
3. Submission to the National Security Studies Admissions Committee of a brief statement (one or two double-spaced typewritten pages) that demonstrates the ability to communicate clearly through writing, an

understanding of our graduate program, and preparation for graduate study;
4. Submission of two letters of recommendation from individuals familiar with the student's academic or professional work and potential to complete the program successfully.

Students who meet the requirements for admission to graduate study, but who do not meet the program requirements, may be admitted to graduate study in unclassified postbaccalaureate status or to the program in conditionally classified graduate standing. When the specified deficiencies are removed, student status is changed from conditionally classified to classified. (Unclassified postbaccalaureate students may enroll, when space is available, in selected graduate courses.) No more than 12 semester units of national security studies course work taken as an unclassified or conditionally classified graduate student may be applied to the program as a classified graduate student.

Advancement to Candidacy

To be advanced to candidacy, a student must have:

1. Achieved classified status;
2. Selected a graduate advisor to supervise the course of study;
3. Completed at least 18 semester units of national cyber security studies program course work at this university, and achieved a minimum grade point average of 3.0 ("B") in those courses;
4. Filed a graduate program approved by the student's advisor, the national cyber security studies graduate coordinator and the Dean of Graduate Studies.

Requirements for Graduation

1. A minimum of 36 semester units of acceptable graduate-level work, with at least 30 semester units completed in residence at California State University, San Bernardino. A minimum of 30 semester units must be at the 5000-6000 level;
2. A grade point average of at least 3.0 ("B") in all national security studies program courses taken;
3. Choose Option A or B:
   a. Completion of acceptable comprehensive final written and oral examinations;
   b. Completion and defense of an original master's thesis;
4. The graduation writing requirement will be satisfied by achieving a minimum grade point average of 3.0 ("B") in the following three core courses. Each core course will allow the student to develop competence in three forms of writing traditional to the field:
   a. Writing for Intelligence (PSCI 6210),
   b. Analysis of Cyber Security (PSCI 6030,
   c. Analysis of either theory or practice of strategy (PSCI 6000 or PSCI 6020);
5. Any additional general requirements not cited above and listed in Graduate Degree and Program Requirements (p. 74).

Classified graduate students in the Master of Science program must complete their degree requirements within five years of admission to the program. Students in classified status who fail to register for at least one course in the program each semester will automatically be declassified. PSCI 6980-6986, Continuous Enrollment for Graduate Candidacy Standing, must be taken if another course is not taken during a given semester.

The Master of Science in National Cyber Security Studies is a thesis option course of study requiring either written and oral comprehensive examinations (to be taken in the last semester of program course work) or a thesis. Students with less than a 3.0 grade point average in the program will not be permitted to take the examinations or propose a thesis. All students are required to take the prerequisite, Core and Cyber Security field courses.

Comprehensive Examination

Comprehensive examinations must be taken in the Core and the Cyber Security fields. The comprehensive examination committee for each candidate will consist of the Core advisor, one advisor from the Cyber Security field and a third faculty member from either department. The examinations will be graded credit/no credit.

An oral examination by the student's committee follows successful completion of the written examination. The oral examination is open for public attendance, but not participation. Should the candidate fail one or more written or oral examination areas, the entire oral or written examination may be repeated one time after remedial course work or study is completed. The scope and deadline for completion of this remedial work will be determined by the student's examination committee at a post-examination conference.

Students must enroll in PSCI 6980 - the Political Science Comprehensive Examination..

Thesis

The criteria for determining who will be allowed to choose the thesis option will be determined by the proposed thesis committee. Students are still required to develop a course of study consistent with the Core and Cyber Security fields, as noted above. After completion of a minimum of 21 semester units, the student will request three faculty to form a preliminary committee, at least two of whom have instructed a course that the student has taken in the program in each of the Core and Cyber Security fields.

Degree Requirements (36-39 units)

(Program Code: NCSS)

Core courses (18)		
PSCI 4840	National Security Policy	3
PSCI 5900	Seminar in International Relations (Techniques of Intelligence Analysis)	3
PSCI 6000	Theory and History of Strategy	3
PSCI 6020	International Security	3
PSCI 6030	Cyber Security and Cyber Warfare	3
PSCI 6210	Intelligence Assessments and Estimates	3
Cyber Security Field (15)		
IST 5250	Incident Handling and Cyber Investigation	3
IST 6470	Database Management and Policies	3
IST 6700	Cybersecurity Policy and Risk Management	3
IST 6720	Cyber Defense and Vulnerability Analysis	3
IST 6730	Cybersecurity Theory and Practice	3

Electives (3)		
Three units chosen from among courses not used for the core requirements listed below.		3
ECON 6303	International Economic Issues	
GEOG 6100	Military Geography for National Security	
HIST 5560	Foreign Relations of the United States	
MATH 6411	Operations Analysis	
PSCI 5400	Seminar in Comparative Politics (Middle East Politics)	
PSCI 5400	Seminar in Comparative Politics (African Dictatorships)	
PSCI 5400	Seminar in Comparative Politics (East Asian Politics)	
PSCI 5400	Seminar in Comparative Politics (Latin American Politics)	
PSCI 5900	Seminar in International Relations (Intelligence and Ethics)	
PSCI 5900	Seminar in International Relations (Terrorism in Africa)	
PSCI 5900	Seminar in International Relations (US - Israel Relations)	
PSCI 5900	Seminar in International Relations (Cases in Strategy)	
PSCI 5920	Seminar in Government (Research Methods)	
PSCI 6040	Seminar in International Law	
PSCI 6050	Topics in Strategy:	
PSCI 6060	Analysis of International Terrorism	
PSCI 6090	International Relations Theory	
PSCI 6110	Regional Security of Eurasia	
PSCI 6120	African Security	
PSCI 6130	Middle East Security	
PSCI 6140	Regional Security of East Asia	
PSCI 6200	Understanding Intelligence Failure	
PSCI 6220	Arms Control	
PSCI 6240	Politics of National Security	
PSCI 6250	American Foreign Policy	
SSCI 6950	Directed Graduate Studies	
Culminating Experience (0-3)		**0-3**
Total Units		**36-39**

Culminating Experience (0-3 units)

Students must complete one of the following:

Choose one from:		0-3
PSCI 6973	Thesis [1]	
PSCI 6980	Comprehensive Examination	
Total Units		**0-3**

[1] Thirty six units of course work and three units of thesis must be completed before the degree will be awarded.

Bachelor of Arts in Social Sciences

This program is designed for students who wish to build a unique BA in Social Sciences program that suits their interests and professional goals OR for those who wish to teach social science subjects in California's schools, middle school through high school.

For those interested in teaching, in addition to this coursework, students will have to pass 2 California pre-credential exams in order to be admitted into a Teaching Credential Program, post-BA: the California Subject Examination for Teachers (CSET), which encompasses knowledge and understanding in Social Science, and also in child adolescent and family studies, economics, geography, history, political science, psychology and sociology and the California Basic Educational Skills Test (CBEST) which is comprised of three subtests: basic math, reading, and writing skills for individuals planning a career in teaching.

Students are required to complete 30 units in the Core discipline of Social Science. Students may choose an alternative Core set of courses or discipline in consultation with an Advisor or the Program Coordinator.

Students choose a Concentration from one of the following disciplines and complete a total of 15 units: child development, economics, geography, history, political science, psychology, or sociology. Included in the core, students will choose take an additional 12-units in one field outside of their Concentration, from child adolescent and family studies, development, economics, geography, history, political science, psychology, or sociology. Students may choose an alternative Concentration set of courses or discipline in consultation with an Advisor or the Program Coordinator.

Students interested in pursuing Teaching are encouraged to see their Social Science advisor early in their program for assistance in choosing courses.

For those with interests outside of teaching in multidisciplinary and individualized programs, this program is also designed for students with a varied set of academic and career interests. Students develop skills in areas that are deemed crucial in a wide array of contemporary professions: Globalism, Multiculturalism, and Intercultural Fluency, Critical Thinking and Problem Solving, Oral and Written Communication, Teamwork and Collaboration, and Professionalism and Work Ethics. For students interested in the multidisciplinary and individualized programs, it is recommended that you first meet with an Academic Advisor in order to develop your program. All multidisciplinary and individualized programs must be approved by the BA in Social Sciences Coordinator.

Additionally, students looking to enhance their career prospects may elect to complete up to 6 units of SSCI 5750 Internship and 6 units of SSCI 5950 Independent Studies, for a total of 3-12 units, with the consent of the Program Coordinator.

Degree Requirements (45 units)

Total units required for graduation: 120

Core requirements (30)		
Twelve units chosen from:		12
SSCI 3000	Global Issues and Perspectives	
or SSCI 3001	Global Issues and Perspectives	
SSCI 3010	Revolutions and Revolutionary Ideas	
or SSCI 3011	Revolutions and Revolutionary Ideas	

SSCI 3020	The 20th Century World	
SSCI 3160	Race and Racism	
SSCI 3250	Perspectives on Gender	
SSCI 3290	Topics in Social Science	
SSCI 3320	Understanding Capitalism	
SSCI 3390	Climate Change	
Six units chosen from:		6
SSCI 3060	Expository Writing for the Social Sciences	
SSCI 5940	Senior Seminar	
Students take an additional 12-units in one field outside of their concentration from the following:		12
Child, Adolescent and Family Studies(CAFS 2240 + 9 upper division units of CAFS courses)		
Economics (12 upper division units of ECON courses)		
Geography (12 upper division units of GEOG courses)		
History (12 upper division units of HIST courses)		
Political Science (12 upper division units of PSCI courses)		
Psychology (12 upper division units of PSYC courses)		
Sociology (SOC 1000 + 9 upper division units of SOC courses)		
Concentration (15)		
Students must complete 15 units in one of the concentrations listed below or design their own Concentration in consultation with the Program Coordinator:		15
Total Units		**45**

Concentrations

Child, Adolescent and Family Studies Concentration (15 units)

CAFS 2240	Introduction to Child Development	3
Twelve units of upper division Child, Adolescent and Family Studies		12

Economics Concentration (15 units)

(Program Code: SSEC)

Fifteen units of upper division Economics coursework	15
Total Units	**15**

Geography Concentration (15 units)

(Program Code: SSGY)

Fifteen units of upper division Geography coursework.	15
Total Units	**15**

History Concentration (15 units)

Fifteen units of upper division History coursework.	15
Total Units	**15**

Political Science Concentration (15 units)

(Program Code: SSPL)

Fifteen units of upper division Political Science coursework.	15
Total Units	**15**

Psychology Concentration (15 units)

(Program Code: SSPS)

Fifteen units of upper division Psychology coursework.	15
Total Units	**15**

Sociology Concentration (15 units)

(Program Code: SSSC)

SOC 1000	Introduction to Sociology	3
Plus twelve additional units of upper division Sociology coursework		12
Total Units		**15**

Minor in Aerospace Studies

The minor in aerospace studies consists of a minimum of 18 units in aerospace studies, 12 of which must be upper-division.

Requirements for a minor in Aerospace Studies (16 units)

AS 1001	Heritage and Values I	1
AS 1002	Heritage and Values II	1
AS 2001	Team and Leadership Fundamentals I	1
AS 2002	Team and Leadership Fundamentals II	1
AS 3001	Leading People/Effective Communication I	3
AS 3002	Leading People/Effective Communication II	3
AS 4001	National Security/Leadership Responsibilities/Commissioning Preparation I	3
AS 4002	National Security/Leadership Responsibilities/Commissioning Preparation II	3
Total Units		**16**

Minor in Islamic and Middle Eastern Studies

Requirements for a minor in Islamic and Middle Eastern Studies (27 units)

Core Courses (12)		
Twelve units chosen from:		12
ANTH 3704R	Anthropology of the Middle East	
CAL 3750	Exploring the World of Islam	
GEOG 3900	Emerging Topics in Human Geography	
HIST 3830	Classical Islamic Civilization	
PSCI 3080	Government and Politics of the Middle East	
ARAB 4900	Voices and Visions from the Arab World	

Language Requirement (3)		**3**
A minimum of three units from one of the following courses chosen in consultation with the Coordinator for the Islamic and Middle Eastern Studies minor:		
ARAB 1111	Beginning Arabic 1	
ARAB 1112	Beginning Arabic 2	
ARAB 2111	Arabic Communication	
ARAB 2112	Arabic Literature and societies	
ARAB 2113	Arabic Media	
ARAB 2114	Arabic for Professional Communication	
ARAB 3113	Spoken Arabic	
ARAB 3114	Introduction to Arabic Linguistics	
Electives (12)		**12**
Twelve units chosen from:		
ARAB 2900	Arabic Literature in Translation	
ANTH 3003R	Prehistory of the Middle East and Europe (Electives)	
ARAB 3111	Arab Culture, Media and Identity	
ARAB 3112	Explorations of Arabic Literary Texts	
ARAB 3900	Female Voices in Arab American Literature	
ENG 3190	Studies in Literary Diversity	
COMM 5303	Muslim Women in Media and Society	
COMM 5319	Advanced Topics in Media Studies	
HIST 3300	Topics in Oral History	
HIST 3840	Modern Middle East	
HIST 4560	Mughal India and the Early Modern World	
HIST 4570	Modern India at the Crossroads of Empire	
HIST 4800	History of Christianity I	
HIST 4850	Arab-Israeli Conflict	
HIST 4860	Modern Iran	
HIST 4870	Topics in Modern Middle Eastern History	
HIST 4910	Nationalism and Conflict in the Middle East	
HIST 4920	U.S. Media and the Middle East	
HIST 4930	Iran-U.S. Relations	
HIST 4950	Politics of Oil	
PSCI 5400	Seminar in Comparative Politics	
An Independent Study course chosen in anthropology, English, history, humanities or political science on a Middle Eastern topic.		
Total Units		**27**

Certificate in Ethnic Studies

The Certificate offers professional and academic training to individuals who wish to enhance their knowledge and skills in these important aspects of contemporary American Society. The Certificate in Ethnic Studies consists of 15 units.

Certificate Requirements (15 units)

15 units chosen from:

ES 1000	Introduction to Ethnic Studies	3
ES 1400	Race, Class, Gender and Sexuality	3
ES 3100	Black Feminist Movements	3
ES 3201	Race, Ethnicity and Immigration in the United States	3
ES 3501	Politics of Multiculturalism and Diversity	3
ES 4200	US Empire and Foreign Policy 1898-Present	3
ES 4400	Transnational Feminisms and Global Raciality	3
SSCI 3160	Race and Racism	3

Certificate in Islamic and Middle Eastern Studies

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (30 units)

Core Courses (12)		
Twelve units chosen from:		12
ANTH 3704R	Anthropology of the Middle East	
CAL 3750	Exploring the World of Islam	
HIST 3830	Classical Islamic Civilization	
GEOG 3900	Emerging Topics in Human Geography (When topic is Middle East/Islam)	
PSCI 3080	Government and Politics of the Middle East	
Language Requirement (3)		
A minimum of three units from one of the following courses chosen in consultation with the Coordinator for the Islamic and Middle Eastern Studies certificate:		3
ARAB 1111	Beginning Arabic 1	
ARAB 1112	Beginning Arabic 2	
ARAB 2111	Arabic Communication	
ARAB 2112	Arabic Literature and societies	
ARAB 2113	Arabic Media	
ARAB 2114	Arabic for Professional Communication	
ARAB 3111	Arab Culture, Media and Identity	
ARAB 3112	Explorations of Arabic Literary Texts	
ARAB 3113	Spoken Arabic	
ARAB 3114	Introduction to Arabic Linguistics	
Electives (15)		
Fifteen units chosen from:		15
ANTH 3003R	Prehistory of the Middle East and Europe	
ARAB 3111	Arab Culture, Media and Identity	
ARAB 3112	Explorations of Arabic Literary Texts	
ARAB 3116	Explorations in Arabic Media	
ARAB 3900	Female Voices in Arab American Literature	
ARAB 4900	Voices and Visions from the Arab World	
COMM 5319	Advanced Topics in Media Studies	
ENG 3190	Studies in Literary Diversity	
COMM 5303	Muslim Women in Media and Society	
HIST 3300	Topics in Oral History	
HIST 3840	Modern Middle East	
HIST 4560	Mughal India and the Early Modern World	
HIST 4570	Modern India at the Crossroads of Empire	
HIST 4800	History of Christianity I	
HIST 4850	Arab-Israeli Conflict	
HIST 4860	Modern Iran	
HIST 4870	Topics in Modern Middle Eastern History	
HIST 4910	Nationalism and Conflict in the Middle East	
HIST 4920	U.S. Media and the Middle East	
HIST 4930	Iran-U.S. Relations	
HIST 4950	Politics of Oil	

PSCI 5400	Seminar in Comparative Politics	
An Independent Study course chosen in anthropology, English, history, humanities or political science on an Islamic/ Middle Eastern topic.		
PSCI 6050	Topics in Strategy: (When the topic is Islamic/Middle East)	
Other courses related to the Middle East and Islamic World, to be approved in advance by the Islamic and Middle East Studies coordinator, can be used to fulfill the electives area.		
NOTE: 6000 level courses are not available for undergraduate students.		
Total Units		**30**

Certificate in Native Nations/ Indigenous Peoples Studies

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (15 units)

Certificate Requirements (15)

SOC 5250	Indian Nations and Native America (3 units chosen from:)	3
or SOC 5450	Indigenous Peoples	
Six units chosen from:		6
ANTH 3706R	Indians of North America	
ANTH 3707R	Indians of the Southwest	
ANTH 5772	Internship in Archaeology	
HIST 3710	California Indian History	
HIST 3420	American Indian History	
HIST 5750	Internship in History	
SOC 5900	Seminar in Sociology	
Electives. Six units chosen from:		6
ENG 3140	Native American and Indigenous Literatures	
ENG 3190	Studies in Literary Diversity (Coordinator approval required)	
HIST 3750	Museum Management	
HIST 3760	Exhibition Development and Design	
HIST 3120	Historical Archaeology	
HIST 3160	Archival Practices	
ANTH 3180	Introduction to Cultural Resource Management	
HIST 3260	Historic Preservation	
SOC 5900	Seminar in Sociology (Coordinator approval required)	
Total Units		**15**

Up to six units of outside coursework may be substituted with the approval of a certificate coordinator.

Aerospace Studies (Air Force ROTC) Program

Aerospace Studies (Air Force ROTC) Program
Aerospace Studies Office Faculty Office Bldg, Room 144
(909) 537-5440 Aerospace Studies Office website (https://www.csusb.edu/afrotc/)

Aerospace Studies (Air Force ROTC) Program

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Aerospace Studies Program

Air Force ROTC is a college-level program designed to select and train highly qualified men and women to become commissioned Air Force officers. After graduation from college and completion of all Air Force ROTC requirements, cadets are commissioned as second lieutenants in the U.S. Air Force and Space Force. Typical service is four years; however, service duration for some career fields (i.e. pilots, navigators, air battle managers) is longer. These individuals serve in a broad range of careers to include flying, engineering, administration and a host of other fields, depending on the needs of the Air Force.

To enter Air Force ROTC, an individual must have at least three years of college left to earn a college degree. In addition, the individual must be a United States citizen prior to entering the last two years of the program, be able to pass an Air Force medical exam, be of high moral character, and be in good academic standing in school with a cumulative GPA of 2.0 or higher. Entry into the last two years of the program is on a competitive basis.

Students are required to graduate with a bachelor's degree, in any academic major. AFROTC offers 2, 3, and 4-year scholarships (some of which cover ALL tuition and fees), but scholarships are not required to participate in the program. AFROTC cadets under scholarship and

all juniors and seniors receive a $300-$500 per month tax-free stipend, plus a $600 textbook allowance each year. No military commitment is incurred until entering the last two years of the program (Professional Officer Course) or accepting an AFROTC scholarship.

Classes consist of one hour of academics plus two hours of leadership laboratory for freshmen and sophomores. Juniors and seniors will have three hours of academics plus two hours of leadership laboratory. The academic hours earned can normally be counted as elective credit toward graduation. All AFROTC classes and laboratories are held on Fridays to better accommodate students commuting from other colleges and universities.

More information is available at the Air Force ROTC website. (http://www.afrotc.com/)

Program Requirements

Program Requirements (16 units)

The Air Force ROTC program is available to students with three to four years of undergraduate/graduate study remaining. Entry into the program requires university course enrollment and consultation with the AFROTC admissions officer in the department. The program consists of three parts: General Military Course (academics and laboratory), Field Training, and the Professional Officer Course (academics and laboratory).

General Military Course (GMC) (4)		
AS 1001	Heritage and Values I	1
AS 1002	Heritage and Values II	1
AS 2001	Team and Leadership Fundamentals I	1
AS 2002	Team and Leadership Fundamentals II	1
AS 5001	Leadership Laboratory	0
Field Training (0)		
Field Training A 17-day, noncredit course conducted at an Air Force base during the summer between the second and third years of the program. Successful completion is required to continue in the Professional Officer Course Program.		
Professional Officer Course (POC) (12)		
AS 3001	Leading People/Effective Communication I	3
AS 3002	Leading People/Effective Communication II	3
AS 4001	National Security/Leadership Responsibilities/Commissioning Preparation I	3
AS 4002	National Security/Leadership Responsibilities/Commissioning Preparation II	3
AS 5001	Leadership Laboratory	0
Total Units		**16**

Military Science (Army ROTC) Program

Military Science Office
Faculty Office Building, Rooms 124 and 125
(909) 537-5533

Military Science Program

The military science program is designed to provide an on-campus program for qualified students in all academic majors who desire to serve as an Army officer on active duty or in a local Army Reserve or Guard unit. While students may participate in either undergraduate or graduate studies, the program requires at least two years to complete.

Students who have completed at least basic training in any of the armed services may be eligible to enter the advanced course directly. Other students must complete three to six of the courses in the basic course of study or complete a six-week summer camp prior to entering the advanced course.

ROTC students are required to participate in off-campus leadership laboratories one weekend each quarter.

Scholarships are available on a competitive basis. All ROTC students receive $450-500 per month during the final two years of the program.

Program Requirements

Option I (Four Year Program)

Program Requirements (39-41 units)

Basic Course of Study (12)		
MILS 1151	Basic Military Skills I	3
MILS 1152	Basic Military Skills II	3
MILS 2251	Leadership and Management I	3
MILS 2252	Leadership and Management II	3
Advanced Course of Study (12)		
Twelve units chosen from:		12
MILS 3351	Small Unit Operations I	
MILS 3352	Small Unit Operations II	
MILS 4451	Military Law	
MILS 4452	Contemporary Military Policy	
MILS 5585	American Military History	
Leadership Laboratory (8)		
Students must be enrolled in the following each semester they are enrolled in the ROTC Program:		8
MILS 1000	Leadership Laboratory	
Note: In addition, a six-week advanced camp is required between the final two years of study.		
In addition to the ROTC curriculum, cadets must complete one of each of the following type courses in order to ensure they have an understanding of skills, values, and knowledge beyond the military skills taught by the military science staff and the ROTC curriculum.		
These classes do not substitute for any military science classes and are in addition to the required classes for ROTC cadets.		
Additional Requirements (7-9)		
Computer Literacy.		1-3
CSE 1290	College Learning for Lives and Careers in the Information Age	
or IST 1110	Introduction to Information Technology	
Written Communications Skills.		3

SSCI 3060	Expository Writing for the Social Sciences	
Military History:		3
HIST 6030	Seminar in Modern Military History	
Total Units		**39-41**

Other classes may be substituted for those listed in each category upon approval of the military science staff.

Note: Some of these requirements are fulfilled by general education classes.

Option II (Two Year Program)

Program requirements (25-27 units)

Program Requirements (2)		
Basic Course Equivalent:		
MILS 2260	ROTC Basic Camp	2
Advanced Course of Study (12)		
Twelve units chosen from:		12
MILS 3351	Small Unit Operations I	
MILS 3352	Small Unit Operations II	
MILS 4451	Military Law	
MILS 4452	Contemporary Military Policy	
Leadership Laboratory (4)		
Students must be enrolled in the following each semester they are enrolled in the ROTC program.		4
MILS 1000	Leadership Laboratory	
Note: In addition, a six week advanced camp is required between the final two years of study.		
In addition to the ROTC Curriculum, cadets must complete one of each of the following type courses in order to ensure they have an understanding of skills, values, and knowledge beyond the military skills taught by the military science staff and the ROTC curriculum. These classes do not substitute for any military science classes and are in addition to the required classes for ROTC cadets.		
Additional Requirements (7-9)		
Computer Literacy		1-3
CSE 1290	College Learning for Lives and Careers in the Information Age	
or IST 1110	Introduction to Information Technology	
Written Communications Skills		3
SSCI 3060	Expository Writing for the Social Sciences	
Military History		3
HIST 6030	Seminar in Modern Military History	
Total Units		**25-27**

Other classes may be substituted for those listed in each category upon approval of the military science staff.

Note: Some of these requirements are fulfilled by general education classes.

Department of Anthropology

Social and Behavioral Sciences Building, Room 327J
(909) 537-5502 Department of Anthropology website (http://anthropology.csusb.edu/)

The study of anthropology promotes an understanding of self and all humankind by exploring the human condition at all times and in all places. In the modern world in which every society depends upon other societies, ignorance of the goals, values and ways of life of others may become a fear leading to discrimination and racism in the community or to war and oppression between nations. The challenges of desert life for the Australian Aborigine and the problems of contemporary ghetto existence are of equal interest to the anthropologist, and courses in these topics and world ethnography are offered by the Anthropology Department. Human physical and cultural evolution, the distribution and significance of cultural differences, the history and ecology of specific areas, and the role of language in culture are treated in courses in physical anthropology, cultural anthropology, archaeology and prehistory, and linguistics.

Participation in The California State University's International Programs (p. 14) is one way students can experience other cultures first-hand.

Departmental Honors

Students majoring in anthropology are eligible to receive honors in anthropology at graduation if the following conditions are met:

1. At least one-half of the course work required by the major is completed at this university;
2. A grade point average of at least 3.5 in the major, both at this university and overall;
3. An overall undergraduate grade point average of 3.0 ("B") or better;
4. Successful completion of ANTH 5955, resulting in a thesis paper.

Applications for candidacy must be made by the beginning of the senior year. Approval of candidacy and of the project and project advisor rests with the department. The project advisor and one other faculty reader from the department will have responsibility for evaluation of the completed thesis paper.

Current Faculty

Danny Sosa Aguilar, Assistant Professor of Anthroplogy
B.A. 2009, University of California, Berkeley
M.S. 2009, CSU, Northridge
Ph.D. University of California, Berkeley

Matthew Des Lauriers, Professor of Anthropology
B.A. 1999, California State University, Bakersfield
M.A. 2001, Ph.D. 2005, University of California, Riverside

Guy Hepp, Professor of Anthropology
B.A. 2004, University of Colorado at Boulder
M.A. 2007, Florida State University
Ph.D. 2015, University of Colorado at Boulder

Arianna Huhn, Professor of Anthropology
B.A. 2002, University of California, Berkeley
M.A. 2005, George Washington University
Ph.D. 2013, Boston University

Hareem Khan, Associate Professor of Anthropolgy
B.A. 2009, Northwestern University

M.A. 2013, UC Santa Barbara
Ph.D. 2018, UC Santa Barbara

Wesley A. Niewoehner, Professor of Anthropology, Chair, Chair
B.A. 1982, Colorado College
M.A. 1990, Colorado State University
Ph.D. 2000, University of New Mexico

Teresa Velasquez, Professor of Anthropology
B.A. 1999, University of California, Davis
M.A. 2004, Ph.D. 2012, University of Texas at Austin

Emeriti

Russell J. Barber

Frances F. Berdan

Kathleen M. Nadeau

James C. Pierson

Undergraduate Degree

Bachelor of Arts

Anthropology (p. 319)

Graduate Degree

Master of Arts

Applied Archaeology (p. 318)

Minor

Anthropology (p. 320)

Certificate Programs

Archaeology (p. 321)

Master of Arts in Applied Archaeology

The Master of Arts in Applied Archaeology is a professionally-orientated program designed to provide a solid anthropological archaeology foundation for students and to prepare them for middle- and upper-level careers in the archaeological sector of the cultural resource management (CRM) industry. The program provides training in anthropological archaeology with a focus on developing a solid background in archaeological method and theory combined with practical experience in field and laboratory studies. Students are then trained how to use that background in an applied setting through curriculum focused on CRM regulations and practice, along with on-the-job training through an internship with a federal or state agency, a private firm, or a tribal entity that conducts archaeological investigations in the context of CRM. All students are required to design and execute a research project and successfully complete a thesis based on that project. Students earning their MA through this program will have the background regulatory and practical knowledge to enter the field of CRM or pursue a Ph.D. degree as a competitive candidate with a solid training in anthropological archaeology. The program is intended for evening students primarily and, therefore, classes are predominantly scheduled between 6 and 10 p.m.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A baccalaureate degree in anthropology or a closely related field from an accredited college or university;
2. A minimum cumulative undergraduate grade point average of at least 2.5 overall and at least 3.0 ("B") in the student's undergraduate major;
3. Demonstration of field experience by EITHER:
   A. Completion of the following prerequisite course or its equivalent, completed with a grade of B or better: ANTH 4020L
   OR
   B. Documented field experience in archaeology under professional supervision that is deemed by the Admissions Committee as being equivalent to successful completion of ANTH 4020L;
4. A brief statement (one to two double-spaced typewritten pages) describing the applicant's preparation for graduate study and professional goals;
5. Submission of three letters of recommendation from people who are in a position to make relevant comments on the student's likely success in the program. At least one of the letters should be from a former professor who is familiar with the student's scholarly abilities.

Advancement to Candidacy

In order to be formally advanced to candidacy, a student must have:

1. Achieved classified status;
2. Satisfied the Writing Requirement for Graduate Candidacy;
3. Secured a graduate advisor to supervise the course of study;
4. Secured a thesis committee to supervise the thesis project;
5. Completed, with the approval of the advisor, at least 9 semester units of graduate course work at this university and achieved a minimum grade point average of 3.0 ("B") in those courses;
6. Filed a graduate program plan approved by the student's advisor and the coordinator of the program;
7. Filed a thesis proposal approved by all members of the student's thesis committee.

Requirements for Graduation

1. A minimum of 30 semester units of acceptable graduate-level work, with at least 21 semester units completed in residence at California State University, San Bernardino. Twenty-three semester units must be in 5000- and 6000-level courses;
2. A minimum grade point average of at least 3.0 ("B") in all courses;
3. Successful completion of a thesis or project (ANTH 6970)
4. The Graduate Writing Assessment Requirement is met though the MA thesis proposal submitted during the first year of work for the degree.

Degree Requirements (30-31 units)

(Program Code: AARC)

Required courses (24)

ANTH 6003	Advanced Studies in California Archaeology	3
ANTH 6004	History and Theory of Archaeology	3

ANTH 6005	Archaeological Research, Methods, and Proposal Design	3
ANTH 6013	Cultural Resource Management: Laws, Regulations, and Procedures	3
ANTH 6014	Cultural Resource Management in Practice	4
ANTH 6021L	Advanced Archaeological Laboratory Analysis	4
ANTH 6754	Graduate Internship in Applied Archaeology	4
Electives (3-4)		
Three or four units chosen from the following courses:		3-4
ANTH 3015R	Archaeology of the Southwest	
ANTH 3019L	Experimental Archaeology and Ethnoarchaeology	
ANTH 5099	Selected Topics in Archaeology	
ANTH 5399	Selected Topics in Biological Anthropology	
ANTH 5699	Selected Topics in Sociocultural Anthropology	
ANTH 6008	Advanced Indigenous Archaeology	
ANTH 6012	Advanced Historical Archaeology	
ANTH 6603L	Advanced Museum Research and Exhibition Development	
GEOG 3710	Advanced Geographic Information Systems	
GEOG 4400	Geomorphology	
GEOG 4860	GIS and Socio-Economic Applications	
GEOL 5280	Digital Mapping and GIS for Scientists	
HIST 3260	Historic Preservation	
HIST 5600	History of the American West	
HIST 6230	Advanced Public History	
HIST 6160	Advanced Archival Practices	
Culminating Experience (3)		**3**
Total Units		**30-31**

Culminating Experience (3 units)

ANTH 6970	Thesis Research	3

Thesis/Project: Under normal circumstances, a student must complete a thesis that is approved by his or her thesis committee. The thesis must reflect original work and show a level of competence appropriate for a master's degree. The thesis committee shall consist of two or three faculty members, including the student's advisor, mutually agreed upon by the student and faculty. By mutual agreement between the student and advisor, a third committee member may be recruited to the committee if that third member has specialized knowledge of the thesis project and holds a PhD from an accredited institution. The student should enroll in ANTH 6970 in the semester when completion of the thesis is anticipated. On occasion a student may be allowed to substitute a completed project for the thesis. Such a project must have a completed product and would reflect at least the same amount of work as a thesis and be completed to the same standard. The content and appropriateness of the project will be determined by a project committee constituted in the same way as a thesis committee.

Bachelor of Arts in Anthropology

The study of anthropology promotes an understanding of self and other by exploring the human condition at all times and in all places. In an interconnected world in which societies depend upon one another, failures in understanding and appreciating differences in goals, values and ways of life can lead to fear, discrimination, oppression, and war. The subfields of biological anthropology, archaeology, and sociocultural anthropology explore human evolution and the emergence of culture, cultural differences and similarities, regional history and ecology, and the role of language in culture.

Students can earn additional first-hand experience abroad through participation in faculty-led programs (http://international.csusb.edu/StudyAbroad.aspx), the California State University's International Programs (http://csuip.calstate.edu/), and independent field schools.

Requirements (46 units)

Total units for Graduation: 120

Requirements for the B.A. in Anthropology

(Program Code: ANTH)

Lower-division requirements (9)		
ANTH 1001	Humans, Apes, and Monkeys: Introduction to Biological Anthropology	3
ANTH 1002	Understanding Cultural Diversity	3
ANTH 1400	World History to c. 1500	3
or HIST 1400	World History to c. 1500	
Upper-division requirements (37)		
ANTH 3501	Human Origins	3
ANTH 3600	The History of Anthropological Thought	3
ANTH 5000	Senior Seminar in Anthropology	3
Archaeology		
Nine units chosen from: A minimum of three units must be from a regional study course designated by the R suffix.		9
ANTH 3005R	North American Archaeology	
ANTH 3006R	Mesoamerican Archaeology	
ANTH 3007R	Andean Archaeology	
ANTH 3008	Indigenous Archaeology	
ANTH 3012	Historical Archaeology	
ANTH 3014R	Archaeology of California	
ANTH 3015R	Archaeology of the Southwest	
ANTH 3019L	Experimental Archaeology and Ethnoarchaeology	
ANTH 3201T	The Archaeology of the Senses	
ANTH 3360	Ancient Egyptian Archaeology	
ANTH 4001T	Archaeological Theory and Method	
ANTH 4020L	Archaeological Survey and Excavation	
ANTH 4021L	Archaeological Laboratory Analysis	
ANTH 4550	Egyptian Mining Expeditions, Their Buildings, and Their Slaves	
Biological Anthropology		
Three units chosen from:		3

ANTH 3500	The Race Concept in Biological Anthropology	
ANTH 3503	Forensic Anthropology and Crime	
ANTH 4501L	Human Osteology and Functional Anatomy	
ANTH 4500T	Late Pleistocene Human Evolution	
Sociocultural Anthropology		
Nine units chosen from: A minimum of three units must be from a regional study course designated by the R suffix.		9
ANTH 3601	Case Studies in Linguistic Anthropology	
ANTH 3603	Gendered Worlds: Power, Difference, and & In/equality	
ANTH 3604	Anthropology and Film	
ANTH 3605	Anthropology of Health	
ANTH 3606	Indigenous Politics	
ANTH 3607	Environmental Anthropology	
ANTH 3608	Humans, Animals, and Nature	
ANTH 3610	Globalization in Crisis	
ANTH 3701R	Cultures of Mexico and Central America	
ANTH 3702R	Anthropology of South America	
ANTH 3703R	Anthropology of Asia: Cultures, Communities, and Migration	
ANTH 3704R	Anthropology of the Middle East	
ANTH 3705R	Anthropology of Africa	
ANTH 3706R	Native Nations of North America	
ANTH 4601L	Methods in Sociocultural Anthropology	
ANTH 4603L	Museum Research and Exhibit Development	
ANTH 4606T	Decolonizing Anthropology	
ANTH 4607T	Anthropology of the State: Power, Culture, and the Politics of Belonging May be used as a Sociocultural Anthropology elective or Advanced Theory requirement, but not both.	
Laboratory and Field Methods		
Four units chosen from:		4
ANTH 3019L	Experimental Archaeology and Ethnoarchaeology May be used as an Archaeology elective or Laboratory and Field Methods requirement, but not both.	
ANTH 4020L	Archaeological Survey and Excavation May be used as an Archaeology elective or Laboratory and Field Methods requirement, but not both.	
ANTH 4021L	Archaeological Laboratory Analysis May be used as an Archaeology elective or Laboratory and Field Methods requirement, but not both.	
ANTH 4501L	Human Osteology and Functional Anatomy May be used as a Biological Anthropology elective or Laboratory and Field Methods requirement, but not both.	
ANTH 4601L	Methods in Sociocultural Anthropology May be used as a Sociocultural Anthropology elective or Laboratory and Field Methods requirement, but not both.	
ANTH 4603L	Museum Research and Exhibit Development May be used as a Sociocultural Anthropology elective or Laboratory and Field Methods requirement, but not both.	
Advanced Theory		
Three units chosen from:		3
ANTH 3201T	The Archaeology of the Senses May be used as an Archaeology elective or Advanced Theory requirement, but not both.	
ANTH 4001T	Archaeological Theory and Method May be used as an Archaeology elective or Advanced Theory requirement, but not both.	
ANTH 4500T	Late Pleistocene Human Evolution May be used as a Biological Anthropology elective or Advanced Theory requirement, but not both.	
ANTH 4550	Egyptian Mining Expeditions, Their Buildings, and Their Slaves May be used as an Archaeology elective or Advanced Theory requirement, but not both.	
ANTH 4605T	Human Rights, Violence & Culture May be used as a Sociocultural Anthropology elective or Advanced Theory requirement, but not both.	
ANTH 4606T	Decolonizing Anthropology May be used as a Sociocultural Anthropology elective or Advanced Theory requirement, but not both.	
ANTH 4607T	Anthropology of the State: Power, Culture, and the Politics of Belonging May be used as a Sociocultural Anthropology elective or Advanced Theory requirement, but not both.	
Total Units		**46**

Minor in Anthropology

Requirements for a minor in Anthropology (21 units)

ANTH 1001	Humans, Apes, and Monkeys: Introduction to Biological Anthropology	3
ANTH 1002	Understanding Cultural Diversity	3
ANTH 1400	World History to c. 1500	3
or HIST 1400	World History to c. 1500	
Twelve upper-division units chosen in consultation with an advisor.		12
Total Units		**21**

Certificate in Archaeology

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (23 units)

ANTH 4020L	Archaeological Survey and Excavation	4
or ANTH 5770B-E: Internship in Archaeology		
ANTH 3019L	Experimental Archaeology and Ethnoarchaeology	4
or ANTH 4021L: Archaeological Laboratory Analysis		
ANTH 4001T	Archaeological Theory and Method	3
A minimum of six units chosen from:		6
ANTH 3002R	African Archaeology	
ANTH 3003R	Prehistory of the Middle East and Europe	
ANTH 3005R	North American Prehistory	
ANTH 3006R	Mesoamerican Archaeology	
ANTH 3007R	Andean Archaeology	
ANTH 3012	Historical Archaeology	
ANTH 3014R	Archaeology of California	
ANTH 3015R	Archaeology of the Southwest	
A minimum of three units chosen from:		3
GEOG 2249	Map Interpretation	
GEOG 2250	Introduction to Geographic Information Systems and Cartography	
GEOG 3004	Field Methods in Geography	
GEOG 3018	Geographic Statistics and Research Methods	
GEOG 3710	Advanced Geographic Information Systems	
GEOG 3730	Geo-Spatial Analysis	
GEOG 4300	Biogeography	
GEOG 4400	Geomorphology	
GEOG 4860	GIS and Socio-Economic Applications	
GEOG 4880	Remote Sensing of the Environment	
A minimum of three units chosen from:		3
GEOL 2500	Geology of California	
GEOL 3100	Introduction to Geologic Mapping	
GEOL 3300	Sedimentary Geology: Principles and Applications	
GEOL 3500	Introductory Paleontology	
Total Units		**23**

Department of Child, Adolescent, and Family Studies

Social and Behavioral Sciences Building, Room 458
(909) 537-4239 Department of Child, Adolescent, and Family Studies website (https://www.csusb.edu/child-development/)

The Child, Adolescent, and Family Services major serves undergraduate students who have professional and personal interests in children's growth and change and who are interested in how that foundational knowledge may be applied in a variety of professional settings (e.g., preschools and K-12 education, child service agencies). The twin tracks of the Child, Adolescent, and Family Services major provide cutting-edge coursework and experiences that will fully prepare our students to pursue these types of professional interests. Additionally, because of the scientific basis of the Child Development major, those students wishing to pursue graduate work (i.e., Master's level and beyond) will be highly qualified to apply to a variety of advanced degree programs (e.g., school psychology, special education, child development, developmental psychology, and child clinical psychology).

The following two concentrations are available for students working toward a Bachelor of Arts in Child, Adolescent, and Family Services. Each concentration provides students with a solid background in neurological, biological, social, emotional, and cognitive development:

The Child and Adolescent Development Concentration address development during the late elementary and secondary school years. This concentration prepares students for a wide range of occupations and careers serving children in this age range and their families. Examples include skills coach, child/family/school social worker, child welfare worker, child advocate, adoption counselor, child life specialist, Head Start family specialist, and teen parent educator. This concentration will also prepare students for graduate-level training necessary to become elementary or secondary school teachers, school psychologists, special education teachers, child clinical psychologists, and other professions.

The **Early Childhood Development Concentration** addresses development in infancy, toddlerhood, preschool, and the early school age years. This concentration prepares students for a variety of careers serving young children and their families, including infant/toddler specialists, preschool teachers, Head Start teachers, and early childhood curriculum coordinators. This concentration will also prepare students for graduate-level training necessary to become an early childhood program director, child agency administrators, special education teachers, and other professionals. The Infant/Toddler Lab School and Children's Center are an integral component of this track and are used as observation and practicum sites for students. Students selecting this concentration earn a Child Development Site Supervisor Permit (i.e., an early childhood teaching and administrative credential).

Departmental Honors

Students majoring in Child, Adolescent, and Family Services are eligible to receive honors in child development at graduation if the following conditions are met:

1. At least a 3.5-grade point average in the major;
2. An overall grade point average of 3.5 or better*;

3. Completion of one WI designated course (typically fulfilled through GE) with a “B” or better prior to enrollment in the Honors Program;
4. Completion of the Application for Honors Program in Child, Adolescent, and Family Services, which includes a statement of purpose and approval of a faculty sponsor;
5. Completion of the two-semester Honors Program with a grade of "B" (3.0) or better

Students interested in this recognition must file a formal application for enrollment in the Child, Adolescent, and Family Services Honors Program in their junior year.

Note that the qualifications above are ideal rather than absolute; students who fall short on one of the requirements may be considered on a case-by-case basis.

Current Faculty

Amy Van Schagen, Associate Professor of Child, Adolescent, and Family Studies
B.S. 2007, University of North Carolina at Greensboro
M.S. 2013, University of North Carolina at Greensboro
Ph.D. 2016, University of North Carolina at Greensboro

Amanda S. Wilcox-Herzog, Professor of Child, Adolescent, and Family Studies, Chair, Chair
B.A. 1988, University of California, Irvine
M.Ed. 1992, Chapman University
M.A. 1995, Ph.D. 1999, Purdue University

Eugene H. Wong, Professor of Child, Adolescent, and Family Studies
B.A. 1986, University of California, Los Angeles
M.A. 1989, Ph.D. 1991, University of California, Riverside

Emeriti

Yuchin Chien

N. Laura Kamptner

Robert B. Ricco

Undergraduate Degrees

Bachelor of Arts

- Child, Adolescent, & Family Studies (p. 323) with concentrations in:
  - Early Childhood Development
  - Child and Adolescent Development

Graduate Degrees

Master of Arts

Child, Adolescent, & Family Studies (p. 322)

Minors

- Child, Adolescent, & Family Studies: Child & Adolescent (p. 325)
- Child, Adolescent, & Family Studies: Early Childhood (p. 325)
- Child, Adolescent, & Family Studies: General Track (p. 325)

Master of Arts in Child, Adolescent, and Family Studies

The Master of Arts in Child, Adolescent, and Family Studies is a 38-unit, evening program designed to provide students with an in-depth background in child growth and development. This program is targeted to students wishing to continue their studies at the graduate level in child development, for those currently in careers relating to children and families (e.g., early childhood education, elementary education, special education, or social service professionals), for those wishing to teach early childhood coursework at a community college, and for those who plan to pursue doctoral-level studies in related fields such as child/human development, child and family studies, developmental psychology, and clinical/counseling psychology.

This program provides training in core areas of child development, including development of the whole child from birth through adolescence, family studies, and research design and methodology. This program has a uniquely applied focus and integrates many areas relevant to child development, such as early childhood education, special education, counseling, and social work. Students exiting this program take with them skills that are marketable under current and expected socioeconomic conditions.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A baccalaureate degree with a major in human development, child development, psychology; or with any other undergraduate major that satisfies the graduate admissions committee of the MA CAFS program;
2. A cumulative undergraduate grade point average of at least 3.0 ("B") overall and a 3.2 minimum in the major.
3. A brief statement describing the applicant's preparation for graduate study, goals of graduate study, and professional aspirations, to be submitted to the department;
4. Three letters of recommendation, with at least two from former professors. Letters should come directly from the writers or be included in a placement file. (It is the applicant's responsibility to determine if letters have been received.);
5. Satisfaction of the following prerequisites: a. One class in Child Development. b. One class in statistics, and c. One class in research methodology.

Advancement to Candidacy

At the end of the spring semester, all first year graduate students will be evaluated to determine whether or not they will be advanced to candidacy for the Master of Arts degree. Students will be reevaluated each semester until they are either advanced to candidacy or declassified.

To be formally advanced to candidacy, a student must, to the satisfaction of the chair of the department, have:

1. Achieved classified status;
2. Successfully completed 12 units of course work in the program and maintained a 3.0 ("B") grade point average in the course work;
3. Selected a graduate advisor to supervise the coursework relevant to the student's culminating experience;

4. Completed at least one annual evaluation demonstrating satisfactory knowledge, skills, and dispositions;
5. Satisfied the Writing Requirement for Graduate Candidacy (WRGC);
6. Filed an approved graduate program which must have the approval of the student's advisor, the department chair or the graduate program director and the Dean of Graduate Studies;

Requirements for Graduation

1. A minimum of 38-semester units of approved graduate-level work, with at least 27 semester units completed in residence at this university;
2. A grade point average of at least 3.0 ("B") in all courses taken to satisfy the Master of Arts degree, grades of "B-" (2.7) or better in each required course in the program, and grades of "C" (2.0) or better in each elective course;
3. Successful completion of the course work listed below, including a culminating experience consisting of the completion and defense of a comprehensive examination, project or thesis;
4. Completion of any additional general requirements not cited above and listed in Graduate Degree and Program Requirements (p. 74);
5. Completion of the Program's degree requirements within seven years of admission to the program;
6. The Graduate Writing Assessment Requirement is met upon successful completion of CD 6640 Advanced Research Methods with a grade of B-or higher;.
7. Also note that students in classified status who fail to register for at least one course in the MACD program each semester will be automatically declassified. CD 6990 Continuous Enrollment for Graduate Candidacy Standing may be taken if all mandatory coursework has been completed and another course is not taken during a given semester.

Degree Requirements (38 units)

(Program Code: CAFS)

CAFS 5531	Effective, Inclusive, and Equitable Practices with Children	3
CAFS 6614	Advanced Theories of Child Development	3
CAFS 6624	Advanced Developmental Neuroscience	3
CAFS 6648	Advanced Social-Emotional Development	3
CAFS 6651	Advanced Cognitive Development	3
CAFS 6659	Advanced Childhood Assessment	3
CAFS 6690	Advanced Families and Parenting	3
CAFS 6640	Advanced Research Methods	3
Culminating Experience (14)		**14**
Total Units		**38**

Culminating Experience

MA CAFS students must demonstrate successful research participation with a faculty advisor. This requirement can be fulfilled in one of three ways:

Comprehensive Examination Option (14 units)

Students will be required to become familiar with the literature in a research area which will be related to their comprehensive examination. This could take the form of a partial literature review, an annotated bibliography and/or a presentation of the literature of interest to faculty/ student groups.

Six units of 5000-6000 level courses chosen in consultation with the Program Coordinator or Faculty Advisor		6
CAFS 6894	Externship in Child, Adolescent, and Family Studies	4
CAFS 6125	Advanced Academic Writing	3
CAFS 6981	Comprehensive Examination	1
Total Units		**14**

Project Option (14 units)

Students will be required to become familiar with the literature in one or more research areas and to acquire specialized knowledge of any particular methodologies needed for the development of a project.

Six units of 5000-6000 level courses chosen in consultation with the Program Coordinator or Faculty Advisor		6
CAFS 6954	Advanced Independent Study	4
CAFS 6964	Graduate Project	4
Total Units		**14**

Thesis Option (14 units)

Students will be required to become familiar with the literature in one or more research areas and to become skilled in certain specialized research methods which will pertain to their abilities to gather data for a thesis. Examples of such activities could include gathering pilot data to acquire interview skills, knowledge of survey procedures, assessment skills, advanced statistical skills, understanding of content analysis, skills to work with a special population, or advanced physiological measurement skills.

CAFS 6641	Advanced Data Analysis in Quantitative Methods	3
CAFS 6642	Advanced Data Analysis in Qualitative Methods	3
CAFS 6954	Advanced Independent Study	4
CAFS 6974	Thesis	4
Total Units		**14**

Bachelor of Arts in Child, Adolescent, and Family Studies

There are two concentrations within the Child, Adolescent, and Family Studies B.A.: **Early Childhood Development** and **Child and Adolescent Development**. Students must select one of the concentrations when they declare Child, Adolescent, and Family Studies as their major. These concentrations conform to the Transfer Model for early childhood education and child development degrees.

Degree Requirements (61 units)

Total units required for graduation: 120

CAFS 2200	Child Development as a Major	1
CAFS 2201	Foundational Skills for CAFS Majors	1
CAFS 2220	Introduction to Data Analysis in Child, Adolescent, and Family Studies	3
CAFS 2240	Introduction to Child Development	3
CAFS 2205	Diversity in Child Development	3
CAFS 3315	Applied Research Methods	4
CAFS 3324	Developmental Psychobiology in Childhood	3
CAFS 4450	Child Assessment	3
CAFS 4498	Advanced Child and Family Development	3
Choose one		3
CAFS 5575	Advanced Practicum Experience: Early Childhood	
CAFS 5580	Advanced Practicum Experience: Child and Adolescent	
Choose two		6
CAFS 3305	Language Development	
CAFS 3358	Cognitive Development	
CAFS 3384	Social and Emotional Development	
Concentration (28)		
Students must satisfy the requirements of one of the concentrations listed below.		28
Total Units		**61**

Students enrolling in the Child Development Honors Program during their senior year will take CAFS 5674 and CAFS 5675 in addition to the above requirements.

Concentrations

Early Childhood Development Concentration (28 units)

(Program Code: CDEC)

Choose one		3
CAFS 2244	Observation and Methods: Infant and Toddler Development	
CAFS 2245	Observation and Methods: Preschool and Early School Age Development	
CAFS 2250	Infant and Toddler Development	3
CAFS 2260	Early Childhood Development	3
Choose one		3
CAFS 2251	Effective Interactions with Infants and Toddlers	
CAFS 2261	Effective Interactions with Preschoolers and Early School Agers	
Choose one: 2281 if taking 2251 and 2291 if taking 2261.		2
CAFS 2281	Effective Interactions with Infants and Toddlers: Laboratory	
CAFS 2291	Effective Interactions with Preschool and Early School Agers: Laboratory	
Choose one (2252 if you took 2251; 2262 if you took 2261)		3
CAFS 2252	Infant and Toddler Activities and Programs	
CAFS 2262	Preschool and Early School Age Activities and Programs	
Choose one: 2282 if taking 2252 and 2292 if taking 2262		2
CAFS 2282	Infant and Toddler Activities and Programs: Laboratory	
CAFS 2292	Preschool and Early School Age Activities and Programs: Laboratory	
Choose one		3
CAFS 2209	Health, Safety, and Nutrition	
CAFS 3302	History of Childhood	
CAFS 3304	Play and Effective Practice with Children	
Choose one		3
CAFS 2215	Child, Family, and Community	
CAFS 3303	Parenting and Family Relations	
CAFS 3306	Early Childhood Special Education	3
Total Units		**28**

Child and Adolescent Development Concentration (28 units)

(Program Code: CDCA)

Choose one		3
CAFS 2246	Observation and Methods: School Age Development	
CAFS 2247	Observation and Methods: Adolescent Development	
CAFS 2270	Middle Childhood Development	3
CAFS 2275	Adolescent and Emerging Adulthood Development	3
CAFS 2285	Effective Interactions, Activities, and Programs with School Age and Adolescent Children	3
CAFS 2286	Interactions Lab: School Age and Adolescence	2
CAFS 2287	Activities Lab: School Age and Adolescence	2
Choose one		3
CAFS 2215	Child, Family, and Community	
CAFS 3302	History of Childhood	
CAFS 3304	Play and Effective Practice with Children	
PSYC 3325	Development of Intimate Relationships	
CAFS 3303	Parenting and Family Relations	3
Choose one		3
CAFS 3350	Development of Exceptional Children	
PSYC 3391	Psychopathology of Childhood	
PSYC 1100	Introduction to Psychology	3
Total Units		**28**

Minor in Child, Adolescent, and Family Studies: Child and Adolescent

A minor in Child, Adolescent, and Family Studies complements a variety of majors including Criminal Justice, Communication Studies, Kinesiology, Nursing, Psychology, Social Work, and Health Science. The Child, Adolescent, and Family Studies Minor: Child and Adolescent aligns well with those interested in working with children in elementary school and beyond.

Requirements for a minor in Child, Adolescent, and Family Studies: Child and Adolescent (24 units)

Core Requirements (24)		
CAFS 2240	Introduction to Child Development	3
CAFS 2205	Diversity in Child Development	3
CAFS 2270	Middle Childhood Development	3
CAFS 2275	Adolescent and Emerging Adulthood Development	3
CAFS 2285	Effective Interactions, Activities, and Programs with School Age and Adolescent Children	3
Choose one		3
CAFS 2215	Child, Family, and Community	
CAFS 3303	Parenting and Family Relations	
Two upper division Child Development courses (not already taken to meet an above requirement).		6
Total Units		**24**

Minor in Child, Adolescent, and Family Studies: Early Childhood

A minor in Child, Adolescent, and Family Studies complements a variety of majors including Criminal Justice, Communication Studies, Kinesiology, Nursing, Psychology, Social Work, and Health Science. The Child, Adolescent, and Family Studies Minor: Early Childhood aligns well with those interested in working with children age birth through eight.

Requirements for a minor in Child, Adolescent, and Family Studies: Early Childhood (24 units)

Core Requirements (24)		
CAFS 2240	Introduction to Child Development	3
CAFS 2205	Diversity in Child Development	3
Choose one		3
CAFS 2250	Infant and Toddler Development	
CAFS 2260	Early Childhood Development	
Choose one		3
CAFS 2251	Effective Interactions with Infants and Toddlers	
CAFS 2261	Effective Interactions with Preschoolers and Early School Agers	
Choose one		3
CAFS 2252	Infant and Toddler Activities and Programs	
CAFS 2262	Preschool and Early School Age Activities and Programs	
Choose one		3
CAFS 2215	Child, Family, and Community	
CAFS 3303	Parenting and Family Relations	
Must take two upper division Child Development courses (not already taken to meet the above requirements).		6
Total Units		**24**

Minor in Child, Adolescent, and Family Studies: General Track

A minor in Child, Adolescent, and Family Studies complements a variety of majors including Criminal Justice, Communication Studies, Kinesiology, Nursing, Psychology, Social Work, and Health Science. The Child, Adolescent, and Family Studies Minor: General Track aligns with those seeking to learn more about children's development and the scientific process related to this discipline.

Requirements for a minor in Child, Adolescent, and Family Studies: General Track (25 units)

Core Requirements (25)		
CAFS 2240	Introduction to Child Development	3
CAFS 2205	Diversity in Child Development	3
Choose one		3
CAFS 2250	Infant and Toddler Development	
CAFS 2260	Early Childhood Development	
Choose one		3
CAFS 2270	Middle Childhood Development	
CAFS 2275	Adolescent and Emerging Adulthood Development	
CAFS 3303	Parenting and Family Relations	3
One upper division child development course (not already taken to meet an above requirement).		3
CAFS 2220	Introduction to Data Analysis in Child, Adolescent, and Family Studies	3
CAFS 3315	Applied Research Methods	4
Total Units		**25**

Department of Economics

Social and Behavioral Sciences Building, Room 327
(909) 537-5511 Department of Economics website (http://economics.csusb.edu/)

Economics is the study of how individuals and societies organize the production and distribution of goods and services. Economics is also concerned with the historical development of economies along with how various groups and classes interact within the economy.

All policy issues in modern societies have an economic dimension, and so the study of economics provides students the ability to understand

many of the fundamental problems faced by society. Further, because economics emphasizes systematic thinking and the analysis of data, training in economics offers excellent preparation for careers in industry, nonprofits, and government. Economics also provides excellent preparation for many professions including law, education, public administration, and management.

Reflecting the interests and training among its faculty, the Economics Department at CSUSB offers two Bachelor of Arts degrees: a B.A. in Economics and a B.A. in Political Economy.

Departmental Honors

Departmental honors will be awarded upon graduation to students majoring in economics who have:

1. Earned a 3.5 grade point average in all economics courses attempted at this university;
2. Completed at least half of all work in economics at this university;
3. Been recommended for departmental honors by economics faculty.

Students who qualify for departmental honors are strongly encouraged to discuss with their faculty advisor the possibility of enrolling in ECON 5999.

Students who have completed a minimum of 12 semester units of economics course work with a grade point average of at least 3.0 ("B") and who also have an overall grade point average of at least 3.0 may join the university's chapter of Omicron Delta Epsilon, the national honor society in economics. Additional information can be obtained from the Department of Economics.

Current Faculty

Yasemin Dildar, Associate Professor of Economics
B.A. 2007, M.S. 2009, Middle East Technical University
Ph.D. 2015, University of Massachusetts

Daniel MacDonald, Professor of Economics, Chair, Chair
B.A. 2007, Seton Hall University
Ph.D. 2013, University of Massachusetts Amherst

Teresa Perry, Assistant Professor of Economics
B.A. 2013, University of California Santa Barbara
Ph.D. 2022, Economics Colorado State University

Doguhan Sundal, Assistant Professor of Economics
B.A. 2014, Bilkent University
M.A. 2016, Bilkent University
Ph.D. 2022, Economics University of Utah

Edward Teather-Posadas, Assistant Professor of Economics
B.A. 2011, University of San Francisco
M.A. 2013, Roosevelt University
M.A. 2017, Ph.D. 2022, Colorado State University

Emeriti

Carolyn B. Aldana

Ralph James Charkins

Kazim Konyar

Eric Nilsson

Thomas J. Pierce

Nancy E. Rose

Mayo Toruño

Undergraduate Degrees

Bachelor of Arts

Economics (p. 326)
with concentrations in:

- General Economics
- Mathematical Economics
- Applied Economics

The B.A. in Economics provides the student with rigorous training in economic theory, data analysis, and the analysis of public policy. On the one hand, the major involves a consideration of how individuals, firms, and governments balance costs and benefits to achieve their goals. On the other hand, the major considers the larger institutional and macroeconomics structures that shape the decisions of economic and non-economic actors.

The major provides excellent preparation for a variety of jobs in the private sector, non-profits, and government. It also provides excellent preparation for a variety of graduate and professional schools.

Political Economy (p. 328)

The Political Economy major provides students with a knowledge of contemporary issues and policy along with a set of practical skills preparing students for employment in community groups, unions, non-profits, government, and private businesses. This program also equips students to enter professional schools along with graduate schools in various disciplines.

The major combines course work from Economics and other disciplines to create a coherent program investigating the behavior of the economy and society using a broader and more inclusive framework than found in standard economics programs. In particular, this program is an innovative blend of coursework from mainstream economics, heterodox economics, and non-economics disciplines. The program provides students with the skills necessary to perform research and data analysis along with allowing students to gain additional practical skills such as writing for the public, accounting, and geographic information systems.

Importantly, the program gives students the option to systematically investigate gender, race, and ethnicity. To promote student engagement with the community, the program has a service-learning course.

Minors

Economics (p. 328)

Philosophy, Policy, and Economics (p. 209)

Political Economy (p. 329)

Bachelor of Science in Quantitative Economics

This program helps develop students' abilities to analyze and interpret economic data, to think critically about social and economic issues, and contribute positively to their community. Students develop skills that are

in demand by employers, such as critical thinking and data analysis. Graduates can pursue careers in a variety of fields, including finance, consulting, investment, and public policy.

Degree Requirements (48-54 units)

Total units required for graduation: 120

Lower-division requirements (3-6)		
Choose from the following:		3-6
ECON 2000	The Economy: Problems and Perspectives	
ECON 2201 & ECON 2202	Principles of Microeconomics and Principles of Macroeconomics	
Upper-division requirements (24)		
ECON 3100	Intermediate Microeconomics	3
ECON 3200	Intermediate Macroeconomics	3
ECON 3400	Money, Banking, and Financial Markets	3
ECON 3500	Tools of Economic Analysis	3
ECON 3700	History of Economic Thought	3
ECON 3900	Writing in Economics	3
Three units chosen from:		3
ECON 3105	Political Economy	
ECON 3109	Political Economy of Women	
ECON 3125	Economic History of the United States	
ECON 4230	Economic Development	
Three units chosen from:		3
ECON 4412	Firms and Markets	
ECON 4414	Public Economics	
ECON 4416	Labor Economics	
ECON 4418	International Economics	
Concentration (21-24)		
All students must complete one of the concentrations listed below.		21-24
Total Units		**48-54**

Concentrations (21-24 units)

General Economics Concentration (21-22 units)

(Program Code: ECON)

Lower-division requirements (6-7)		
Three units chosen from:		3
MATH 1201	Introduction to Statistical Thinking	
MATH 2265	Statistics with Applications	
ADMN 2100	Applied Business Statistics	
One course chosen from:		3-4
MATH 1301	Modeling with Functions	
MATH 1401	Accelerated Preparation for Calculus	
MATH 1601	Modeling with Calculus	
MATH 2210	Calculus I	
Upper-division requirements (15)		
Three units chosen from:		3
ECON 3800	Quantitative Methods in Economics	
ECON 4300	Econometrics	
ECON 4550	Advanced Tools of Economic Analysis	
Choose twelve additional units of upper-division economics courses. ECON 3199 does not satisfy this requirement.		12
Total Units		**21-22**

Mathematical Economics Concentration (23-24 units)

(Program Code: ECMA)

Lower-division requirements (14-15)		
MATH 2265	Statistics with Applications	3
MATH 2210	Calculus I	4
MATH 2220	Calculus II	4
One course chosen from:		3-4
MATH 2310	Applied Linear Algebra	
CSE 1100	Critical Thinking Through Computer Programming	
Upper-division requirements (9)		
ECON 4300	Econometrics	3
Three units chosen from:		3
ECON 3800	Quantitative Methods in Economics	
ECON 4550	Advanced Tools of Economic Analysis	
Choose three additional units of upper-division economics courses. ECON 3199 does not satisfy this requirement.		3
Total Units		**23-24**

Applied Economics Concentration (21-22 units)

(Program Code: APEC)

Lower-division requirements (12-13)		
ADMN 2100	Applied Business Statistics	3
ACCT 2110	Introductory Accounting I	3
ACCT 2120	Introductory Accounting II	3
One course chosen from:		3-4
MATH 1301	Modeling with Functions	
MATH 1401	Accelerated Preparation for Calculus	
MATH 1601	Modeling with Calculus	
MATH 2210	Calculus I	
Upper-division requirements (9)		
FIN 3001	Finance I	3
Three units chosen from:		3
ECON 3800	Quantitative Methods in Economics	
ECON 4300	Econometrics	
ECON 4550	Advanced Tools of Economic Analysis	
Choose three additional units of upper-division economics courses. ECON 3199 does not satisfy this requirement.		3
Total Units		**21-22**

Note: Students considering graduate study in economics are urged to take the Mathematical Economics Concentration. Alternatively, students can complete the following courses: MATH 2265, ECON 4300, MATH 2210, MATH 2220, and CSE 1100.

Bachelor of Arts in Political Economy

Requirements (46-47 units)

Total units required for graduation: 120

Requirements for the B.A. in Political Economy

(Program Code: POEC)

Lower-division requirements (12-13)		
ECON 2000	The Economy: Problems and Perspectives	3
Three units chosen from:		3
MATH 1201	Introduction to Statistical Thinking	
MATH 2265	Statistics with Applications	
ADMN 2100	Applied Business Statistics	
Three units chosen from:		3
MATH 1301	Modeling with Functions	
MATH 1402	Preparation for Calculus A	
MATH 1601	Modeling with Calculus	
One course chosen from:		3-4
ACCT 2110	Introductory Accounting I	
COMM 2301	Newswriting and Reporting	
ENG 2400	Writing in the Public Sphere	
GEOG 2250	Introduction to Geographic Information Systems and Cartography	
Upper-division requirements (34)		
ECON 3105	Political Economy	3
ECON 3400	Money, Banking, and Financial Markets	3
ECON 3500	Tools of Economic Analysis	3
ECON 3700	History of Economic Thought	3
ECON 3900	Writing in Economics	3
ECON 4525	Mixed Methods Research	3
Three units chosen from:		3
ECON 4414	Public Economics	
ECON 4416	Labor Economics	
ECON 5601	Service-Learning in Political Economy	1
Six units chosen from:		6
ECON 3101	Political Economy of Southern California	
ECON 3103	Environmental Economics	
ECON 3109	Political Economy of Women	
ECON 3125	Economic History of the United States	
ECON 3720	Behavioral Economics	
ECON 3750	Origins of Political Economy	
ECON 4815	Global Inequality and Growth	
Six units chosen from:		6
ANTH 3603	Gendered Worlds: Power, Difference, and & In/equality	
GEOG 3050	Economic Geography	
GEOG 3501	Environmental Sustainability	
GSS 4200	Feminist Theory	
GSS 4250	Women as Agents of Social Change	
GSS 4500	Queer Theory	
HIST 3230	Introduction to Public History	
PHIL 3330	Social and Political Philosophy	
PSCI 3300	State and Local Politics	
PSYC 3354	Organizational Psychology	
SOC 4100	Sociology of Race and Ethnicity	
SOC 4200	Social Movements	
SOC 4220	Sociology of Work	
SOC 4340	Community Organization	
SOC 4440	Sociology of Sex and Gender	
SSCI 3160	Race and Racism	
SSCI 3390	Climate Change	
Total Units		**46-47**

Minor in Economics

Requirements for a minor in Economics (18-22 units)

Lower-division requirements (6-10)		
ECON 2000	The Economy: Problems and Perspectives	3-6
or both of the following:		
ECON 2201	Principles of Microeconomics	
ECON 2202	Principles of Macroeconomics	
One course chosen from:		3-4
MATH 1301	Modeling with Functions	
MATH 1501	Critical Thinking Through Applications of Mathematical Logic	
MATH 1601	Modeling with Calculus	
MATH 2210	Calculus I	
Upper-division requirements (12)		
A minimum of three units chosen from:		3
ECON 3312	Firms and Markets	
ECON 3314	Public Economics	
ECON 3316	Labor Economics	
ECON 3318	International Economics	
ECON 3400	Money, Banking, and Financial Markets	3
Six additional units of upper-division economics courses.		6
Total Units		**18-22**

Minor in Philosophy, Policy, and Economics

Requirements for a minor in Philosophy, Policy and Economics (21 units)

Students must complete 21 units from the courses listed below with a minimum of six units in each of the fields. Students who major in philosophy, political science or economics must earn 15 units outside their major from the courses listed below.	21

Philosophy	
PHIL 3330	Social and Political Philosophy
PHIL 3350	Philosophy of Law
PHIL 3355	Jurisprudence
PHIL 3390	Topics in Value Theory
PHIL 4300	Advanced Issues in Value Theory
Economics	
ECON 3101	Political Economy of Southern California
ECON 3103	Environmental Economics
ECON 3105	Political Economy
ECON 3109	Political Economy of Women
ECON 3125	Economic History of the United States
Political Science	
PSCI 3100	Classical Political Thought
PSCI 3110	Foundations of Modern Political Thought
PSCI 3130	Modern Political Thought
PSCI 3150	Post Modern Political Thought
Total Units	**21**

Minor in Political Economy

Requirements for a minor in Political Economy (18 units)

Lower-division requirements (3)		
ECON 2000	The Economy: Problems and Perspectives	3
Upper-division requirements (15)		
ECON 3105	Political Economy	3
Six units chosen from:		6
ECON 3101	Political Economy of Southern California	
ECON 3103	Environmental Economics	
ECON 3109	Political Economy of Women	
ECON 3125	Economic History of the United States	
ECON 3720	Behavioral Economics	
ECON 3750	Origins of Political Economy	
ECON 3790	Post-Keynesian Economics	
Six units chosen from:		6
ANTH 3603	Gendered Worlds: Power, Difference, and & In/equality	
GEOG 3050	Economic Geography	
GEOG 3501	Environmental Sustainability	
GSS 4200	Feminist Theory	
GSS 4250	Women as Agents of Social Change	
GSS 4500	Queer Theory	
PHIL 3330	Social and Political Philosophy	
PSCI 3300	State and Local Politics	
PSYC 3354	Organizational Psychology	
SOC 4100	Sociology of Race and Ethnicity	
SOC 4200	Social Movements	
SOC 4220	Sociology of Work	
SOC 4340	Community Organization	
SOC 4440	Sociology of Sex and Gender	
SSCI 3160	Race and Racism	
SSCI 3390	Climate Change	
Total Units		**18**

Department of Ethnic Studies

Social Behavioral, Room 327
(909) 537-7279 Department of Ethnic Studies website (https://www.csusb.edu/ethnic-studies/)

The Program of Ethnic Studies is committed to the teaching of Ethnic Studies from historical, interdisciplinary, intersection, theoretical and relational perspectives. Our faculty members offer courses on and conduct research in the political and intellectual cultures of communities of color in the United States and within transnational contexts. In our teaching and research, we work to uphold pedagogues and methodologies that reflect and respect the myriad communities that our student body represents. Moreover, we see community engagement to be revolutionary grounding for Ethnic Studies praxis. Nurturing and building relationships within and across communities of color creates radical openings for understanding the nature of systemic violence while centering the resistance that is at the core of community and Indigenous knowledge and activism. Students and faculty in our program are encouraged to engage ethically with communities; students will be provided with support offered through courses focused on community engagement, faculty mentoring and career advising.

We recognize the 1968-1969 struggles of the Black Student Union and the Third World Liberation Front (a coalition of organizations led by students of color) at San Francisco State University and the University of California, Berkeley, and of revolutionary youth and student movements across the world as foundational to our being. We affirm the long-standing and ongoing intellectual and political activism of Black, Native/American Indian/Indigenous, Asian American, Pacific Islander and Chicanx/Latinx scholars, artists and activists in our endeavors to build with, struggle alongside and learn from our students, our local communities of color and each other. We understand that communities of color are differently affected and produced by histories of empire, colonialism and slavery and within the afterlives of such violences. Centering these historical roots and embodied knowledge, we remain committed to understanding the ever-evolving field as being relational, feminist, queer and collective at its core.

We unequivocally support and affirm the resistance, knowledge, joy and power of Black peoples. We recognize that there is an unpaid and unpayable debt to Black communities and their unwavering commitment to imagining a world that exceeds the boundaries of the one in which we presently live. All of us pledge to research, teach, and serve from a commitment to supporting Black liberation struggles and challenging the anti-blackness which under girds the ongoing violence against Black peoples.

We unequivocally support and affirm the resistance, knowledge, joy and power of Native/American Indian/Indigenous peoples. We recognize that CSUSB sits on the territory and ancestral land of the San Manuel Band of Mission Indians (Yuhaaviatam) and that we continue to benefit from the genocidal project of settler colonialism. All of us pledge to research, teach and serve from a commitment to decolonization and supporting Native/American Indian/Indigenous sovereignties and stewardship.

Current Faculty

Aaron Brown, Assistant Professor of Ethnic Studies
M.A. 2019, University Of California, Riverside
Ph.D. 2022, University Of California, Riverside

Beyaja Notah, Assistant Professor of Ethnic Studies
B.A. 2010, M.A., Ph.D. 2023, University of California, Riverside

Undergraduate Degree

Bachelor of Arts

Ethnic Studies (p. 330)

Minors

- Ethnic Studies (p. 331)
- Ethnic Studies - Chicana/o/x, Latina/o/x Studies (p. 331)

Bachelor of Arts in Ethnic Studies

Born out of the late-1960s student protests led by the Black Student Union and Third World Liberation Front at San Francisco State University, Ethnic Studies is overtly and proudly a political and intellectual project that envisions and enacts paths to self-determination by communities of color. Ethnic Studies at CSUSB invites students who are inspired to take on the critical study of race, ethnicity, gender, sexuality, class, disability and citizenship to examine all systems and structures of oppression. Our BA consists of distinct theoretical and methodological approaches that have shaped the field of Ethnic Studies including Critical Race Theory, Intersectionality, Queer of Color Critique, Settler Colonialism and Transnational Feminisms. Students who major in Ethnic Studies will analyze the power dynamics at play in structuring white supremacy, heteropatriarchy and class oppression through the centering of historically racialized groups in the United States.

Ethnic Studies at CSUSB is comprised of educators, students and staff who are dedicated to creating supportive and nurturing academic environments for all majors and minors. By majoring in Ethnic Studies, students are prepared for a range of opportunities at CSUSB, including interdisciplinary and collaborative research, study abroad and internships on campus and in our surrounding communities. Moreover, students will be prepared to pursue a wide variety of fields after graduation, including organizing and activism, public policy, medicine, social work, secondary and college-level educational work, law and government. Majors are also well-situated for graduate studies in a number of disciplines in the social sciences and humanities.

Requirements (30 units)

Total units required for graduation: 120

Requirements for the B.A. in Ethnic Studies

Three units from:		3
ES 1000	Introduction to Ethnic Studies	
ES 1400	Race, Class, Gender and Sexuality	
Three units selected from:		3
ES 1020	Introduction to Chicana/o/x and Latina/o/x Studies	
ES 1100	Introduction to Native Studies	
ES 2200	Women of Color Feminisms	
Six units from:		6
ES 3000	Research Methods in Ethnic Studies	
ES 5940	Senior Seminar	
Eighteen units selected from:		18
ES 3080	Race, Gender, and Sexuality in Popular Culture	

ES 3100	Black Feminist Movements	
ES 3140	Native American Feminisms	
ES 3190	Queer of Color Critique	
ES 3201	Race, Ethnicity and Immigration in the United States	
ES 3390	Black Studies	
ES 3501	Politics of Multiculturalism and Diversity	
ES 3630	Race, Ethnicity, and Film in America, 1920-Present	
ES 3940	Topics in Ethnic Studies	
ES 4100	Health and Racism in the US, 1800-Present	
ES 4101	Race and Social Movements in the United States, 1840-Present	
ES 4200	US Empire and Foreign Policy 1898-Present	
ES 4400	Transnational Feminisms and Global Raciality	
ES 4600	Eating the Other: Consumer Culture and Race	
ES 5250	Performance Studies and Ethnic Studies	
ES 5753	Internship in Ethnic Studies	
ES 5953	Independent Study	
Total Units		**30**

Minor in Ethnic Studies

To earn the minor in ethnic studies, students must complete 18 units of coursework in Ethnic Studies.

Requirements for a minor in Ethnic Studies (18)

Core Required Course (3)		
ES 1000	Introduction to Ethnic Studies	3
Total Units		**3**

Note: Students may consider relevant course substitution with the approval of the ethnic studies coordinator.

3 Units Chosen From		3
ES 1020	Introduction to Chicana/o/x and Latina/o/x Studies	
ES 1080	Resistance and Revolution	
ES 1200	Introduction to Asian American Studies	
ES 1400	Race, Class, Gender and Sexuality	
ES 2200	Women of Color Feminisms	
12 Units Chosen From: (12)		**12**
ES 3000	Research Methods in Ethnic Studies	
ES 3080	Race, Gender, and Sexuality in Popular Culture	
ES 3100	Black Feminist Movements	
ES 3190	Queer of Color Critique	
ES 3201	Race, Ethnicity and Immigration in the United States	
ES 3390	Black Studies	
ES 3400	Gendering Labor: Migrant Women and Work	
ES 3501	Politics of Multiculturalism and Diversity	
ES 3630	Race, Ethnicity, and Film in America, 1920-Present	
ES 3940	Topics in Ethnic Studies	
ES 4100	Health and Racism in the US, 1800-Present	
ES 4101	Race and Social Movements in the United States, 1840-Present	
ES 4200	US Empire and Foreign Policy 1898-Present	
ES 4301	Latinx History through Film, 1920-Present	
ES 4400	Transnational Feminisms and Global Raciality	
ES 4480	Ethnic Studies in Southern California	
ES 4600	Eating the Other: Consumer Culture and Race	
ES 5100	Teaching Ethnic Studies	
ES 5250	Performance Studies and Ethnic Studies	
Total Units		**15**

Minor in Ethnic Studies - Chicana/o/x, Latina/o/x Studies

Designed to provide increased awareness, knowledge and an in-depth understanding, the minor in Ethnic Studies, Chicano(a)/ Latino(a) Studies will address issues of language, history, culture, politics, economics, education, immigration and the creative expression of the Chicano/ Latino presence in this country. Students will examine this growing ethnic group's experience in a social context and its interdependence with other populations by addressing interracial, intercultural and international understanding.

Requirements for a minor in Ethnic Studies - Chicana/o/x, Latina/o/x Studies (18 units)

Required Courses (18)		
ES 1020	Introduction to Chicana/o/x and Latina/o/x Studies	3
ES 3000	Research Methods in Ethnic Studies	3
ES 3940	Topics in Ethnic Studies	3
Nine units chosen from:		9
ANTH 3006R	Mesoamerican Archaeology	
ART 2329	Xicanx Art	
CAL 3350	Latinx Border Identity: A Transmedia Perspective	
COMM 4302	Latinx, Media, and Cultures	
ENG 3230	Chicana/o Literature	
ES 5953	Independent Study	
GEOG 4055	US-Mexico Border Region	

HIST 3610	Chicana/o History Through Film
HIST 3910	Chicana/o History
HIST 3950	Topics in History (When the topic petains to US/Mexico Borderlands)
HIST 5640	Chicana/Mexicana Feminisms
PSCI 5920	Seminar in Government (When topic pertains to Latino Politics in the U.S.)
SOC 3420	The Latino Family
SOC 4420	The Latino Experience in the U.S.
SOC 4530	Citizenship, Status, and Inequality
SOC 4510	Sociology of Migration
SOC 5510	Borders, Knowledges, and Identities
Please note: All Sociology courses have a prerequesite course of SOC 1000 or Consent of Department Chair	
SPAN 3051	Culture, Health, and Food in Latin America
SPAN 3900	Voices & Visions from the Hispanic World (When the topic pertains to: Latino Literature in the USA)
Total Units	**18**

Department of Geography and Environmental Studies

Social and Behavioral Sciences Building, Room 327J
(909) 537-5519 Department of Geography and Environmental Studies website (https://www.csusb.edu/geography/)

Environmental Studies

To accomplish its principal objective of promoting an understanding of the interaction of human with their environment, this interdisciplinary degree program includes courses primarily from the natural sciences and social sciences.

Major requirements from the natural sciences develop fundamental principles about the composition and functioning of the earth's ecosystems, principles deemed essential to a sound working knowledge of the environment. Course offerings from the social sciences assess the impact of humans upon the environment and the possibility of creating different environments.

The program is designed for students who desire either to focus on a study of the environment as part of a broader liberal arts curriculum or to prepare for an environmentally related career or graduate school. Professional opportunities for graduates include a wide range of positions in public agencies responsible for developing and enforcing environmental controls, and in business, industry and nonprofit organizations which need qualified individuals to communicate environmental information and to assist in compliance with environmental regulations. Additional opportunities are available in conjunction with other programs of study, such as environmental law, environmental health, education and public administration.

Geography

Geography is concerned with the spatial variations and interrelationships between the natural and cultural features of the earth. Geographers study the earth primarily as the home of humans. As an approach to knowledge, geography forms an interdisciplinary bridge between the physical and cultural worlds, examining both humans and their environment. As a synthesizing discipline, geography is an especially attractive major for liberal arts and science students. Its body of theory and methodologies provides an analytic technique applicable to a wide range of questions. For students planning to end their formal education with a bachelor's degree, it also provides both the regional and world perspective required of responsible citizens. For the same reasons, geography is especially valuable for those who plan to do graduate work. Geography offers job opportunities in teaching, business, government, armed forces, conservation and water resources, planning and market research, geographic information systems (GIS) and international organizations.

Students who can meet the qualifications are also encouraged to participate in the California State University's International Programs (p. 14). Such participation will not only contribute immediately to the student's geographical knowledge and degree program, but may have longer-term educational and career benefits as well.

Departmental Honors

Students majoring in Geography and Environmental Studies are eligible to receive honors in geography at graduation if they have:

1. Completed at least one-half of the course work required by the major at this university;
2. Earned a grade point average of at least 3.5 in the major, both at this university and overall;
3. Earned an overall undergraduate grade point average of 3.0 or better;
4. Completed GEOG 5970 (for Geography majors) or GEOG 5971 (for Environmental Studies majors) approved in advance by the department chair.

Students interested in receiving this recognition must initiate the process by making a formal application with the Geography Department Administrative Support Coordinator.

Current Faculty

Jennifer Alford, Associate Professor of Geography and Environmental Studies
B.A. 2003, North Carolina State University
M.A. 2005, Ph.D. 2014, University of North Carolina at Greensboro

Brett Goforth, Professor of Geography and Environmental Studies
B.S. 2001, Califonia State University, Polytechnic, San Luis Obispo
Ph.D., 2009, University of California, Riverside

Kevin Grisham, Professor of Geography and Environmental Studies
B.A. 1997, California State University, San Bernardino
M.A. 2005, Ph.D. 2009, University of California, Riverside

Rajrani Kalra, Professor of Geography and Environmental Studies
B.A. 1993, 1998, M.A. 1995, 1999, University of Dehli
M.A. 2003, University of Akron
Ph.D. 2007, Kent State University

Michal Kohout, Professor of Geography and Environmental Studies
B.A. 1993, University of Western Ontario
M.A. 1996, Southwest Texas State University
Ph.D. 2004, Clark University

Bo Xu, Professor of Geography and Environmental Studies
B.S. 1998, Beijing Normal University
M.S. 2001, East China Normal University

M.S. 2007, Ph.D. 2008, University of Georgia

Yolonda Youngs, Professor of Geography and Environmental Studies
B.A. 1993, Florida State University
M.S. 2004, Montana State University
Ph.D. 2009, Arizona State University

Emeriti

Andrew Bodman

Jeffrey D. Hackel

Theodore R. McDowell

Norman Meek

James Mulvihill

Richard Rowland

Undergraduate Degrees

Bachelor of Arts

Environmental Studies (p. 333)
with concentrations in:
- Environmental Sustainability
- Environmental Systems

Geography (p. 335)
with concentrations in:
- Urban Studies
- Global Studies & Regional Geography
- Geographic Information Sciences (GIS)

Minors

Environmental Studies (p. 337)

Geographic Information Science (p. 337)

Geography (p. 337)

Global Studies (p. 338)

Certificate

Geographic Information Systems (p. 336)

Bachelor of Arts in Environmental Studies

Environmental Studies is an interdisciplinary B.A. degree program that examines interactions of human society and nature through approaches of the natural sciences, social sciences, and humanities. Courses introduce foundation principles of ecology and environmental science in relation to issues of policy, politics, law, economics, social aspects, planning, pollution control, and natural resources management. Two degree concentrations are designed to prepare students for a broad field of environmental career pathways: **Environmental Sustainability** and **Environmental Systems**. Upon successful completion of the Environmental Studies B.A. degree program, students who want further training may go to graduate school in the natural sciences, public administration, planning, environmental law, environmental health, or education.

The **Environmental Studies B.A., Environmental Sustainability Concentration**, focuses on the concept of sustainability from an interdisciplinary perspective. This concentration includes instruction in sustainable development, environmental policies, ethics, ecology, landscape architecture, city and regional planning, economics, natural resource issues, sociology, and anthropology. Career pathways explored by this concentration include the work of government agencies and non-governmental organizations, natural resource planners and managers, environmental regulators, K-12 educators, and advocates. This concentration is recommended for students that want a broad and flexible liberal arts program that allows them follow diverse interests.

The **Environmental Studies B.A., Environmental Systems Concentration**, focuses on the application of biological, chemical, and physical principles to the study of environmental problems and solutions, including subjects such as abating or controlling environmental pollution and degradation; physical interactions between human society and the natural environment; and approaches to natural resources management. This concentration provides a science intensive background with instruction in biology, chemistry, physics, geosciences, environmental health, climatology, statistics, and mathematical modeling. Career pathways explored by this concentration include the work of environmental specialists in consulting firms, governmental agencies that monitor and protect environmental quality, as well as in multiple fields of scientific research on human impacts to the environment. This concentration is recommended for students preparing to pursue a graduate degree in the natural sciences, or preparing for an environmentally related technical career.

Degree Requirements (45-52 units)

Total units required for graduation: 120

Lower-division requirements (13)		
GEOG 1070	Environmental Studies Orientation Seminar (must take in first fall semester for the major)	2
Three units chosen from:		3
GEOG 1030	Physical Geography	
GEOL 1000	Introductory Geology	
HSCI 1200	Health and Society: An Ecological and Societal Approach	
One unit chosen from:		1
GEOG 1030L	Physical Geography Laboratory	
GEOL 1000L	Introductory Geology Laboratory	
HSCI 1200L	Health and Society: An Ecological and Societal Approach Lab	
GEOG 2000	Environment and Society	3
GEOG 2250	Introduction to Geographic Information Systems and Cartography	4
Upper-division requirements (17)		
Environmental Systems		
Seven units chosen from:		7
GEOG 3300	Weather and Climate	
GEOG 4250	Watershed Hydrology and Management	
GEOG 4300	Biogeography	

GEOG 4360	Climate Change	
or GEOG 4400	Geomorphology	
Nature-Society Relations		
GEOG 3500	Conservation and Natural Resources	3
or GEOG 3501	Environmental Sustainability	
Three units chosen from:		3
ANTH 3607	Environmental Anthropology	
ECON 3103	Environmental Economics	
ECON 3740	Economics of Climate Change	
ENG 3400	Analysis of Environmental Discourse (WI)	
ENG 3410	Environmental Literature	
GEOG 3630	Environmental Justice	
PHIL 3014	Environmental Ethics	
Experiential Learning		
GEOG 5000	Senior Seminar (must take in spring semester prior to graduation)	2
Two units chosen from:		2
GEOG 5240	National Parks and Public Lands	
GEOG 5351	Professional Conferences	
GEOG 5352	Professional Conferences	
GEOG 5551	Laboratory Experience	
GEOG 5552	Laboratory Experience	
GEOG 5651	Field Experience	
GEOG 5652	Field Experience	
GEOG 5751	Internship in Geography	
GEOG 5752	Internship in Geography	
GEOG 5753	Internship in Geography	
GEOG 5756	Model United Nations Practicum (Spring Semester MUN Team)	
GEOG 5761	Study Abroad	
GEOG 5762	Study Abroad	
GEOG 5763	Study Abroad	
GEOG 5771	Study Away	
GEOG 5772	Study Away	
GEOG 5773	Study Away	
GEOG 5781	Service Learning in Geography, Global Studies and Environmental Studies	
GEOG 5782	Service Learning in Geography, Global Studies and Environmental Studies	
GEOG 5783	Service Learning in Geography, Global Studies and Environmental Studies	
GEOG 5951	Independent Study	
GEOG 5952	Independent Study	
GEOG 5953	Independent Study	
GEOG 5971	Senior Honors Project - Environmental Studies	
Concentration (15-22)		
All students must satisfy the requirements of one of the concentrations listed below:		15-22
Total Units		**45-52**

Concentrations

Courses taken in a concentration cannot be used elsewhere to meet requirements of this major.

Environmental Sustainability Concentration (15 units)

(Program Code: ESSU)

MATH 1201	Introduction to Statistical Thinking	3
or GEOG 3018	Geographic Statistics and Research Methods	
Minimum of six units chosen from:		6
GEOG 3300	Weather and Climate	
GEOG 3521	Environmental Inquiry and Education	
GEOG 3701	Environmental Policy and Impact Assessment	
GEOG 4250	Watershed Hydrology and Management	
GEOG 4300	Biogeography	
GEOG 4710	Water Wars	
GEOG 4750	Ecosystem Assessment	
GEOG 4870	Environmental GIS	
May choose one of the following:		
GEOG 3020	Social Geography	
GEOG 3030	Cultural Geography	
GEOG 3045	Global Cities	
GEOG 3050	Economic Geography	
GEOG 3060	Political Geography	
GEOG 4050	Geography of California	
Six units chosen from:		6
ANTH 3607	Environmental Anthropology	
COMM 3227	Topics in Relational and Organizational Communication (Topic: Environmental Communication)	
or COMM 4222	Communication and Conflict	
ECON 3103	Environmental Economics	
or ECON 3740	Economics of Climate Change	
GEOG 3630	Environmental Justice	
HIST 4950	Politics of Oil	
PA 5140	Nonprofit Management and Leadership	
or PA 5170	Nonprofit Fundraising and Grantwriting	
or PA 5200	Sustainability Policy and Management	
or PA 5210	Community Planning and Management	
PSCI 3300	State and Local Politics	
SOC 4340	Community Organization	
May choose one of the following GE courses:		
ART 3000	Art and Activism	
BIOL 2180	Sustainable Agriculture	
BIOL 3010	Human Ecology	
CHEM 3100	Chemistry and the Environment	
GEOL 3020	Natural Disasters	
GEOL 3040	Energy and the Environment	
ENG 3400	Analysis of Environmental Discourse (WI)	
ENG 3410	Environmental Literature	

PHIL 3014	Environmental Ethics	
Total Units		**15**

Environmental Systems Concentration (22 units)

(Program Code: ESSY)

BIOL 1000	Introduction to Biology	3
or BIOL 2010	Principles of Biology I	
CHEM 1000	Introduction to Chemistry	3
or CHEM 2050	Survey of General Chemistry	
or CHEM 2100	General Chemistry I	
CHEM 1000L	Introduction to Chemistry Laboratory	1
or CHEM 2050L	Survey of General Chemistry Laboratory	
or CHEM 2100L	General Chemistry I Laboratory	
MATH 1201	Introduction to Statistical Thinking	3
or MATH 1301	Modeling with Functions	
or MATH 1601	Modeling with Calculus	
or GEOG 3018	Geographic Statistics and Research Methods	
PHYS 1000	Physics in the Modern World	3
or PHYS 2000	Introduction to Physics I	
or PHYS 2500	General Physics I	
Minimum of nine units chosen from:		9
GEOG 3300	Weather and Climate	
GEOG 3701	Environmental Policy and Impact Assessment	
GEOG 4250	Watershed Hydrology and Management	
GEOG 4300	Biogeography	
GEOG 4360	Climate Change	
GEOG 4400	Geomorphology	
GEOG 4651	Coastal Resources Management	
GEOG 4750	Ecosystem Assessment	
GEOG 4870	Environmental GIS	
GEOG 4880	Remote Sensing of the Environment	
May choose one of the following:		
GEOL 3100	Introduction to Geologic Mapping	
GEOL 3600	Structural Geology	
GEOL 4100	Engineering Geology	
GEOL 3700	Groundwater Hydrology	
GEOL 5400	Environmental Hydrology	
HSCI 3052	Principles of Environmental Health	
HSCI 3522	Air Pollution and Radiological Health	
HSCI 3558	Water Quality and Pollution Control	
HSCI 4577	Environmental Health Engineering	
HSCI 5557	Solid and Hazardous Waste Management	
Total Units		**22**

Bachelor of Arts in Geography

Geography is an interdisciplinary study of place and human-environment relations. Geographers ask where things are located on the surface of the earth, why they are located where they are, and how places differ from one another. Geographers also study the relationships between human activity and natural systems. Geography is unique in linking the social sciences and natural sciences together. Geographical qualitative and quantitative techniques such as Geographic Information Systems (GIS) are among the most important ways of understanding our complex world.

Requirements (42-45 units)

Total units required for graduation: 120

Requirements for the B.A. in Geography

Lower-division requirements (14)		
GEOG 1010	Introduction to Human Geography	3
or GEOG 1650	World Regions and Peoples	
GEOG 1030	Physical Geography	3
GEOG 1030L	Physical Geography Laboratory	1
GEOG 2000	Environment and Society	3
GEOG 2250	Introduction to Geographic Information Systems and Cartography	4
Upper-division requirements (16)		
Courses taken in a concentration cannot be used elsewhere to meet requirements of this major.		
Six units chosen from:		6
GEOG 3020	Social Geography	
GEOG 3030	Cultural Geography	
GEOG 3040	Urban Geography	
or GEOG 3045	Global Cities	
GEOG 3050	Economic Geography	
GEOG 3060	Political Geography	
Environmental Geography - Three units chosen from:		3
GEOG 3300	Weather and Climate	
GEOG 3500	Conservation and Natural Resources	
GEOG 3501	Environmental Sustainability	
GEOG 3630	Environmental Justice	
GEOG 3701	Environmental Policy and Impact Assessment	
GEOG 4250	Watershed Hydrology and Management	
GEOG 4300	Biogeography	
GEOG 4360	Climate Change	
GEOG 4750	Ecosystem Assessment	
GEOG 4651	Coastal Resources Management	
GEOG 5240	National Parks and Public Lands	
Spatial Techniques - Three units chosen from:		3
GEOG 3018	Geographic Statistics and Research Methods	
GEOG 3710	Advanced Geographic Information Systems	
GEOG 3730	Geo-Spatial Analysis	
GEOG 4850	Web GIS	
GEOG 4860	GIS and Socio-Economic Applications	
GEOG 4870	Environmental GIS	
GEOG 4880	Remote Sensing of the Environment	
Experiential Learning - At least two units chosen from:		2
GEOG 5351	Professional Conferences	
GEOG 5352	Professional Conferences	

GEOG 5751	Internship in Geography	
GEOG 5752	Internship in Geography	
GEOG 5753	Internship in Geography	
GEOG 5761	Study Abroad	
GEOG 5762	Study Abroad	
GEOG 5763	Study Abroad	
GEOG 5771	Study Away	
GEOG 5772	Study Away	
GEOG 5773	Study Away	
GEOG 5781	Service Learning in Geography, Global Studies and Environmental Studies	
GEOG 5782	Service Learning in Geography, Global Studies and Environmental Studies	
GEOG 5783	Service Learning in Geography, Global Studies and Environmental Studies	
GEOG 5970	Senior Honors Project - Geography	
GEOG 5000	Senior Seminar	2
Concentration (12-15)		**12-15**
Total Units		**42-45**

Concentrations (12-15 units)

Urban Studies Concentration

(Program Code: GEUS)

GEOG 3040	Urban Geography	3
GEOG 3045	Global Cities	3
GEOG 3501	Environmental Sustainability	3
or GEOG 3630	Environmental Justice	
PA 5210	Community Planning and Management	3
Total Units		**12**

Global Studies & Regional Geography Concentration

(Program Code: GSRG)

Twelve units chosen from:		12
SSCI 3000	Global Issues and Perspectives	
or SSCI 3001	Global Issues and Perspectives	
GEOG 4050	Geography of California	
GEOG 4055	US-Mexico Border Region	
GEOG 4060	Emerging World Regions	
GEOG 4070	Advanced World Regions	
GEOG 4080	Geography of Tourism	
GEOG 5755	Model United Nations Practicum (Fall Semester MUN Team)	
GEOG 5756	Model United Nations Practicum (Spring Semester MUN Team)	
Total Units		**12**

Geographic Information Sciences (GIS) Concentration

(Program Code: GGIS)

Fifteen units chosen from:		15
GEOG 3004	Field Methods in Geography	
or GEOG 5004	Advanced Field Methods in Geography	
GEOG 3018	Geographic Statistics and Research Methods	
or GEOG 3730	Geo-Spatial Analysis	
GEOG 3710	Advanced Geographic Information Systems	
GEOG 3904	Emerging Topics in GIS and Spatial Techniques	
GEOG 4850	Web GIS	
GEOG 4860	GIS and Socio-Economic Applications	
GEOG 4870	Environmental GIS	
GEOG 4880	Remote Sensing of the Environment	
GEOG 5303	Advanced Topics in GIS and Spatial Techniques	
GEOG 5753	Internship in Geography (Must be GIS related)	
Total Units		**15**

Certificate in Geographic Information Systems

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Geographic information systems (GIS) has been developing rapidly and increasingly become a vital part in government policy-making, and industrial applications. The Certificate in Geographic Information Systems is designed to provide students with the fundamental principles and cutting-edge techniques in GIS and related technology. Upon completion of the certificate, students are well equipped with necessary knowledge and skills for their GIS or GIS-related career. Requirements (22 - 23 units).

Certificate Requirements (22-23 units)

Required courses (15)		
GEOG 2250	Introduction to Geographic Information Systems and Cartography	4
GEOG 3710	Advanced Geographic Information Systems	4
GEOG 3730	Geo-Spatial Analysis	3
GEOG 4880	Remote Sensing of the Environment	4

Elective courses (7-8)		
Choose any two courses from the following:		7-8
GEOG 4850	Web GIS	
GEOG 4860	GIS and Socio-Economic Applications	
GEOG 4870	Environmental GIS	
GEOG 5753	Internship in Geography	
Total Units		**22-23**

Minor in Environmental Studies

Minor Requirements (20 units)

Lower-division requirements (7)		
Three units chosen from:		3
BIOL 1000	Introduction to Biology	
GEOG 1030	Physical Geography	
GEOL 1000	Introductory Geology	
HSCI 1200	Health and Society: An Ecological and Societal Approach	
One unit chosen from:		1
BIOL 1000L	Introduction to Biology Lab	
GEOG 1030L	Physical Geography Laboratory	
GEOL 1000L	Introductory Geology Laboratory	
HSCI 1200L	Health and Society: An Ecological and Societal Approach Lab	
GEOG 2000	Environment and Society	3
Upper-division requirements (3)		
Three units chosen from:		3
GEOG 3500	Conservation and Natural Resources	
GEOG 3501	Environmental Sustainability	
GEOG 3521	Environmental Inquiry and Education	
Electives (10)		
A minimum of 10 units chosen from the following courses in groups 1 and 2 (Students must take at least one course in each group, provided that none have been used elsewhere to meet requirements of this minor). In consultation with the environmental studies coordinator, a student can choose other courses, besides those listed below, to meet the elective requirement.		10
Group 1: NATURE-SOCIETY RELATIONS		
ANTH 3607	Environmental Anthropology	
COMM 3227	Topics in Relational and Organizational Communication (Topic: Environmental Communication)	
ECON 3103	Environmental Economics	
or ECON 3740	Economics of Climate Change	
GEOG 3500	Conservation and Natural Resources	
or GEOG 3501	Environmental Sustainability	
GEOG 3521	Environmental Inquiry and Education	
GEOG 3630	Environmental Justice	
GEOG 3701	Environmental Policy and Impact Assessment	
GEOG 4710	Water Wars	
HIST 4950	Politics of Oil	
May choose one of the following GE courses:		
BIOL 3010	Human Ecology	
CHEM 3100	Chemistry and the Environment	
ENG 3400	Analysis of Environmental Discourse (WI)	
ENG 3410	Environmental Literature	
GEOL 3020	Natural Disasters	
GEOL 3040	Energy and the Environment	
PHIL 3014	Environmental Ethics	
Group 2: ENVIRONMENTAL SYSTEMS		
GEOG 3300	Weather and Climate	
GEOG 4250	Watershed Hydrology and Management	
GEOG 4300	Biogeography	
GEOG 4360	Climate Change	
GEOG 4400	Geomorphology	
GEOG 4651	Coastal Resources Management	
Total Units		**20**

Minor in Geographic Information Science

Geographic information science (GISci) has been developing rapidly and increasingly become a vital part in academic research, government policy-making, and industrial applications. The minor in GISci is designed to provide students with the fundamental concepts, theories and cutting-edge technology in GIS and related disciplines. This minor is recommended for students to pursue a graduate degree in GIS and related disciplines.

Requirements for a Minor in Geographic Information Science (29-30 units)

GEOG 2250	Introduction to Geographic Information Systems and Cartography	4
GEOG 3018	Geographic Statistics and Research Methods	3
GEOG 3710	Advanced Geographic Information Systems	4
GEOG 3730	Geo-Spatial Analysis	3
GEOG 4880	Remote Sensing of the Environment	4
Electives (11-12)		
Select a minimum of 11 units		11-12
GEOG 3004	Field Methods in Geography	
GEOG 4850	Web GIS	
GEOG 4870	Environmental GIS	
GEOG 4860	GIS and Socio-Economic Applications	
GEOG 5753	Internship in Geography	
Total Units		**29-30**

Minor in Geography

Geography is concerned with the spatial variations and interrelationships between the natural and cultural processes. As an approach to knowledge, geography forms an interdisciplinary bridge between the physical and cultural worlds, examining both people and their environment.

Minor Requirements (18 units)

Three units chosen from:		3
GEOG 1030	Physical Geography	
GEOG 1030L	Physical Geography Laboratory	
GEOG 2000	Environment and Society	
Three units chosen from:		3
GEOG 1010	Introduction to Human Geography	
GEOG 1650	World Regions and Peoples	
Six units chosen from:		6
GEOG 3020	Social Geography	
GEOG 3030	Cultural Geography	
GEOG 3040	Urban Geography	
GEOG 3050	Economic Geography	
GEOG 3060	Political Geography	
GEOG 4080	Geography of Tourism	
Three units chosen from:		3
GEOG 4050	Geography of California	
GEOG 4055	US-Mexico Border Region	
GEOG 4060	Emerging World Regions	
GEOG 4070	Advanced World Regions	
Three units chosen from:		3
GEOG 3300	Weather and Climate	
GEOG 3500	Conservation and Natural Resources	
GEOG 3501	Environmental Sustainability	
GEOG 3521	Environmental Inquiry and Education	
GEOG 3701	Environmental Policy and Impact Assessment	
GEOG 4250	Watershed Hydrology and Management	
GEOG 4300	Biogeography	
GEOG 4360	Climate Change	
GEOG 4400	Geomorphology	
GEOG 4651	Coastal Resources Management	
GEOG 4710	Water Wars	
GEOG 4750	Ecosystem Assessment	
GEOG 5240	National Parks and Public Lands	
Total Units		**18**

Minor in Global Studies

The Minor in Global Studies promotes an understanding of how globalization impacts the physical and human environment. The minor allows students who are already enrolled in other degree programs at CSUSB to gain an abbreviated interdisciplinary perspective in the study of globalization. The goal is to better understand how the social, cultural, political and economic spheres of human life effect, and are affected by, globalization.

Requirements for a minor in Global Studies (21 units)

Lower-division requirements (12)		
GEOG 1010	Introduction to Human Geography	3
GEOG 1650	World Regions and Peoples	3
GEOG 2200	Introduction to Global Studies	3
GEOG 2201	Issues in the Global System	3
Upper-division requirements (9)		
Students must take a minimum of 9 units from the following:		9
ANTH 3610	Cultural Entanglements and the Global Economy	
COMM 3334	Global Cinema	
ECON 3105	Political Economy	
FIN 3555	Business and Asian Culture	
FREN 3960	French for Reading 1	
FREN 3961	French for Reading 2	
GEOG 3020	Social Geography	
GEOG 3030	Cultural Geography	
GEOG 3050	Economic Geography	
GEOG 3060	Political Geography	
GEOG 3065	Migration and Borderlands	
GEOG 3900	Emerging Topics in Human Geography	
GEOG 3902	Emerging Topics in Environmental Studies	
GEOG 3903	Emerging Topics in Global Studies	
GEOG 4055	US-Mexico Border Region	
GEOG 4060	Emerging World Regions	
GEOG 4070	Advanced World Regions	
GEOG 4450	Globalization and Identity	
GEOG 5150	Global Governance and the United Nations System	
GEOG 5755	Model United Nations Practicum (Fall Semester MUN Team)	
GEOG 5756	Model United Nations Practicum (Spring Semester MUN Team)	
PSCI 5000	International Law	
SSCI 3000	Global Issues and Perspectives	
or SSCI 3001	Global Issues and Perspectives	
Total Units		**21**

Department of History

Social and Behavioral Sciences Building, Room 327
(909) 537-5524 Department of History website (https://www.csusb.edu/history/)

History is the study of the changes throughout the past as a means to understand our present and inform our future. It enables us to obtain context for contemporary systems, institutions, politics, cultures, and moral questions. It engages students in questions about causality and asks students to see the contingent conditions that have shaped our world. History asks students to do much more than memorize facts, but instead challenges students to see the world from various viewpoints, evaluate a multiplicity of sources, develop a sense of context and coherence, all while recognizing the complexity and obscurity of our world.

Through historical inquiry, students will learn how to confront, contemplate, analyze, evaluate, and present their own assessments of the past. History majors at CSUSB don't just read and write about history, but engage with the past in creative, practical, and innovative ways. In addition to community engagement, and through diverse course offerings that span different periods and places, students will not only gain a new understanding of their local and global communities, they will also be well prepared for a multitude of career opportunities, including, but not limited to, education, government, law, public history, business, and media. Applying new and dynamic methods of history, our students learn vital skills that can be applied in the marketplace.

The department offers courses across all areas of the world and temporal time periods. Courses are offered in the areas of African, Ancient, Asian, European, Latin American, Middle East, and United States history. Courses are often integrative and are constantly updated to reflect new areas of interest and faculty expertise.

We offer a BA in History with two concentrations; the general concentration for students who want a traditional history degree with a research focus, and the pre-credential concentration, for students wanting to go on to become history teachers and complete their teaching credential. CSUSB's history department is also one of the few in the country to offer an undergraduate degree in public history for those interested in working in archives, libraries, museums, historic preservation, and other public history venues. The department also offers a Master of Arts in History.

The history department contributes to the B.A. Social Sciences program, the B.A. in Liberal Studies, and the M.A. in Social Sciences and Globalization. We also offer key courses in the GE program. History courses also are part of the American Studies, Asian Studies, Disability Studies, Ethnic Studies, Gender and Sexuality Studies, Islamic and Middle Eastern Studies, Latin American Studies, and Native Nations programs.

Departmental Honors

Students majoring in history are eligible to receive honors in history at graduation if the following conditions are met:

1. At least one-half of the course work required in the major is completed at this university;
2. Earned a grade point average of at least 3.5 in the major, including courses for the major taken elsewhere;
3. Earned an overall undergraduate grade point average of 3.0 ("B") or better;
4. Successful completion of HIST 5970, resulting in a thesis paper.

Applications for candidacy must be made by the beginning of the senior year. Approval of candidacy and of the project and project advisor rests with the department. The project advisor and one other faculty reader from the department will have the responsibility for evaluation of the completed thesis paper.

Phi Alpha Theta

Phi Alpha Theta is an international history honor society. Students who have completed at least 12 units of history (3 courses) at CSUSB, and who have a minimum overall G.P.A. of 3.0 and a minimum G.P.A. in History of 3.1 may join the university's chapter of Phi Alpha Theta. Membership is not limited to History majors.

Masters of Arts in History

The Masters of Arts in History at California State University San Bernardino is a dynamic program designed to prepare students to enhance their historical skills and knowledge as they prepare themselves for a variety of potential careers or to move on to doctoral study.

The MA program offers students the opportunity to work one-on- one with world renown faculty as they pursue a variety of fields of study and interests. Students will gain an overall appreciation of the historical discipline, including an understanding how the past is connected to the present, recognizing the diversity of the human experience across time and space, and realizing the historical discipline's practical contribution to our society. Students who earn an MA through this program will have the opportunity to pursue research opportunities, present their work at regional and national conferences, and complete a thesis or public history project showcasing their work.

The Masters of Arts in History prepares graduates for Ph.D. programs in history or related fields, as well as the following careers:

- K-12 teachers with advanced skills and knowledge
- Community college level instructors
- Professional historians employed in museums, archives, historic preservation, historical research, historic parks and homes and other related fields of public history.

Current Faculty

Cary Barber, Associate Professor of History
B.A. 2008, University Of North Carolina - Chapel Hill
M.S. 2010, Ohio State University
Ph.D. 2016, Ohio State University

Alicia Gutierrez-Romine, Associate Professor of History
B.A. 2010, Cal State University-San Bernardino
M.A. 2012, University of California-Riverside
Ph.D. 2016, University of Southern California

Diana Johnson, Associate Professor of History
B.A. 2010, Eastern Washington University
Ph.D. 2017, University of California, Davis

Tiffany Jones, Professor of History
B.A. 1999, M.A. 2000, Dalhousie University
Ph.D. 2005, Queen's University, Canada

Michael Karp, Assistant Professor of History
B.A. 2010, California State Polytechnic University, Humboldt
M.A. 2012, Ph.D. 2015, Saint Louis University

Ryan Keating, Professor of History
B.S. 2008, University of California, Davis
M.S. 2012, University of New Mexico
Ph.D. 2013, Fordham University

Kate Liszka, Professor of History
B.A. 2001, Pennsylvania State University
M.A. 2007, Ph.D. 2012, University of Pennsylvania

Thomas Long, Professor of History
B.A. 1993, Sonoma State University
M.A. 2001, California State University, Fullerton
Ph.D. 2006, University of California, Riverside

Michelle Lorimer, Assistant Professor of History
B.A. 2008, California State University, San Bernardino
M.A. 2010, Ph.D. 2013, University of California, Riverside

Jeremy Murray, Professor of History
B.A. 2001, SUNY at Albany
M.A. 2004, Columbia University in the City of New York
Ph.D. 2011, University of California, San Diego

Daisy Ocampo Diaz, Associate Professor of History
B.A. 2011, B.A. 2011, M.A. 2015, Ph.D. 2019, University of California, Riverside

Timothy E. Pytell, Professor of History
B.A. 1985, Colorado Springs College
M.A. 1990, Ph.D. 1999, New York University

Marc Robinson, Associate Professor of History
B.A. 2004, University of Washington, Seattle
Ph.D. 2012, Washington State University, Pullman

David N. Yaghoubian, Professor of History
B.A. 1989, University of California, Santa Cruz
M.A. 1994, Ph.D. 2000, University of California, Berkeley

Emeriti

Elliott R. Barkan

Robert A. Blackey

Lanny B. Fields

Joyce A. Hanson

Ward M. McAfee

Stuart M. Persell

Cheryl A. Riggs

Pedro Santoni

Kent Schofield

Undergraduate Degrees

Bachelor of Arts

History (p. 340)
with concentrations in:
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- Precredential

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Bachelor of Arts in History

Through historical inquiry, students will learn how to confront, contemplate, analyze, evaluate, and present their own assessments of the past. History majors at CSUSB don't just read and write about history, but engage with the past in creative, practical, and innovative ways. In addition to community engagement, and through diverse course offerings that span different periods and places, students will not only gain a new understanding of their local and global communities, they will also be well prepared for a multitude of career opportunities, including, but not limited to, education, government, law, public history, business, and media. Applying new and dynamic methods of history, our students learn vital skills that can be applied in the marketplace.

Students majoring in the Bachelor of Arts in History are also eligible to receive honors in history at graduation if the following conditions are met:

1. At least one-half of the course work required in the major is completed at this university;
2. Earned a grade point average of at least 3.5 in the major, including courses for the major taken elsewhere;
3. Earned an overall undergraduate grade point average of 3.0 ("B") or better;
4. Successful completion of HIST 5970, resulting in a thesis paper.

Applications for honors candidacy must be made by the beginning of the senior year. Approval of candidacy and of the honors project and project advisor rests with the department. The project advisor and one other faculty reader from the department will have the responsibility for evaluation of the completed thesis paper.

Individual courses that must be approved by and scheduled separately, such as independent studies (Hist 5951, Hist 5953), internships (Hist 5750), and community based projects (Hist 3990), can only be repeated for a total of six units each. A one unit course can be repeated up to six times, a three unit course can be repeated twice.

Degree Requirements (51-63 units)

Total units required for Graduation: 120

Core courses (21)		
HIST 1400	World History to c. 1500	3

or ANTH 1400	World History to c. 1500	
HIST 1440	World History from c.1500	3
HIST 2000	United States History to 1877	3
HIST 2010	United States History, 1877 to the Present	3
HIST 3940	Introduction to Writing and Research in History	3
HIST 5840	Proseminar in History	3
HIST 5850	Research Seminar in History	3
A minimum of three upper division units chosen from five of the following six areas: (15)		**15**
Ancient History		
HIST 3200	History of Ancient Greece	
HIST 3210	History of Rome	
HIST 3360	Ancient Egyptian Archaeology	
HIST 3390	Culture and Society in Ancient Egypt	
HIST 4260	Ancient and Early Imperial China	
HIST 4420	Archaic Greece	
HIST 4440	Roman Republic	
HIST 4460	Age of Augustus	
HIST 4470	Impact of Warfare in Antiquity	
HIST 4480	Trade, Travel, and Migration in the Ancient Mediterranean World	
HIST 4520	Ancient Egyptian History, Origins to c. 1700 B.C.E.	
HIST 4530	Ancient Egyptian History, c. 1700 B.C.E. to 1000 B.C.E	
HIST 4540	Ancient Egypt, c. 1000 B.C.E. to 495 C.E.	
HIST 4550	Egyptian Mining Expeditions, Their Buildings, and Their Slaves	
HIST 4800	History of Christianity I	
African History		
HIST 3860	Africa to 1870	
HIST 3870	Africa 1870 to Present	
HIST 3880	The Rise, Decline and Legacy of Apartheid South Africa	
HIST 3890	Images of Africa	
HIST 4490	Gender and Development in Africa	
HIST 4510	The History of Health and Medicine in Africa	
Asian/Middle Eastern History		
HIST 3830	Classical Islamic Civilization	
HIST 3840	Modern Middle East	
HIST 4260	Ancient and Early Imperial China	
HIST 4280	Medieval China	
HIST 4290	Modern China I, 1644-1911	
HIST 4310	Modern China II, 1911-Present	
HIST 4330	Modern Chinese History in Fiction and Film	
HIST 4350	World War II in the Pacific	
HIST 4400	History of Modern East Asia	
HIST 4560	Mughal India and the Early Modern World	
HIST 4570	Modern India at the Crossroads of Empire	
HIST 4850	Arab-Israeli Conflict	
HIST 4870	Topics in Modern Middle Eastern History	
HIST 4950	Politics of Oil	
European History		
HIST 3050	Ancient and Medieval Europe to the Renaissance (required for students in the pre-credential concentration)	
HIST 3060	European History from the Renaissance to the Present (required for students in the pre-credential concentration)	
HIST 3200	History of Ancient Greece	
HIST 3210	History of Rome	
HIST 3350	Modern Ireland	
HIST 4000	Early Medieval Europe	
HIST 4010	High Medieval Europe	
HIST 4020	Renaissance and Reformation	
HIST 4030	The Age of Absolutism and Enlightenment	
HIST 4050	Nazi Germany and the Holocaust	
HIST 4060	European Intellectual History	
HIST 4090	Twentieth Century Europe	
HIST 4100	Hitler's Europe	
HIST 4810	History of Christianity II	
HIST 5000	Tudor and Stuart England	
HIST 5010	Britain, 1688-1901	
HIST 5030	Europe Since 1945	
HIST 5350	Studies in European National History	
Latin American History		
HIST 3900	History of Modern Mexico	
HIST 4650	Modern Central America	
HIST 4660	Foreign Relations of Latin America	
HIST 4670	Latin American History Through Film	
HIST 4690	Colonial Latin America	
HIST 4700	Modern Latin America	
United States History		
HIST 3201	Race, Ethnicity and Immigration in the United States	
HIST 3400	African-American History, 1620-1865	
HIST 3410	African-American History, 1865-Present	
HIST 3420	American Indian History	
HIST 3430	Great Debates in African American History	
HIST 3450	Women in U.S. History, 1607-Present	
HIST 3460	Women in the Black Freedom Movement	
HIST 3470	Black Freedom Movement Through Film	
HIST 3480	Black Panthers and Black Power	
HIST 3500	The American Colonies, 1607-1783	
HIST 3510	The Evolution of American Democracy, 1783-1840	

HIST 3540	Civil War and Reconstruction	
HIST 3560	The United States, 1877-1917	
HIST 3570	The United States, 1917-1945	
HIST 3580	United States in World War II	
HIST 3590	United States History, Cold War Era	
HIST 3600	American History Through Film	
HIST 3610	Chicana/o History Through Film	
HIST 3620	LGBT History	
HIST 3630	Race, Ethnicity, and Film in America, 1920-Present	
HIST 3680	The United States, 1960s	
HIST 3700	History of California (required course in pre-credential concentration, does not count in the core for pre-credential students)	
HIST 3710	California Indian History	
HIST 3790	The History of Madness	
HIST 3791	Disability History	
HIST 3910	Chicana/o History	
HIST 4180	Early American Biography	
HIST 4200	US Empire and Foreign Policy 1898-Present	
HIST 4220	20th Century Americans	
HIST 5400	Constitutional History of the United States	
HIST 5410	U.S. Citizenship and the Law	
HIST 5470	African American Intellectual History	
HIST 5560	Foreign Relations of the United States	
HIST 5600	History of the American West	
HIST 5610	Gender, Sex, and Conquest in the American West	
HIST 5640	Chicana/Mexicana Feminisms	
HIST 5650	Immigration and Ethnic American History	
HIST 5680	History of the U.S. - Mexico Borderlands	
Concentration (15-27)		
Students must complete one of the concentrations listed below		15-27
Total Units		**51-63**

Concentrations

General Concentration (15 units)

(Program Code: HISG)

Fifteen additional units of upper division History courses which must fulfill an area of focus either in thematic interests, temporal, or geographic focus. Students will develop their area of focus in consultation with a faculty advisor. (15)	**15**
Geographic Focus. History majors can choose areas such as Africa, Asia, Europe, Latin America, or the United States.	
Thematic Focus. History majors can trace themes such as cultural history, community engagement, political history, colonialism, gender, ethnicity/race, or class.	
Temporal Focus. Students can study a single period such as the Middle Ages, or the Early Modern World (c1400-1800), or Modern World (1800-Present).	
Total Units	**15**

Pre-credential Concentration (27 units)

(Program Code: HSTP)

PSCI 2030	Government of the United States [Will count as Local Government requirement]	3
HIST 3050	Ancient and Medieval Europe to the Renaissance [Will count as European Specialization as well.]	3
HIST 3060	European History from the Renaissance to the Present [Will count as European Specialization as well.]	3
HIST 3700	History of California	3
Student must select 3 units from:		3
HIST 3500	The American Colonies, 1607-1783	
HIST 3510	The Evolution of American Democracy, 1783-1840	
HIST 3540	Civil War and Reconstruction	
HIST 3560	The United States, 1877-1917	
HIST 3570	The United States, 1917-1945	
HIST 3580	United States in World War II	
HIST 3590	United States History, Cold War Era	
HIST 5400	Constitutional History of the United States	
Three units chosen from:		3
HIST 3201	Race, Ethnicity and Immigration in the United States	
HIST 3400	African-American History, 1620-1865	
HIST 3410	African-American History, 1865-Present	
HIST 3420	American Indian History	
HIST 3430	Great Debates in African American History	
HIST 3450	Women in U.S. History, 1607-Present	
HIST 3460	Women in the Black Freedom Movement	
HIST 3620	LGBT History	
HIST 3710	California Indian History	
HIST 3910	Chicana/o History	
HIST 5470	African American Intellectual History	
HIST 5650	Immigration and Ethnic American History	
GEOG 1010	Introduction to Human Geography	3
ECON 2201	Principles of Microeconomics	3
ECON 2202	Principles of Macroeconomics	3

In order to satisfy the Single Subject Social Sciences CSET Waiver students are required to obtain a 2.85 GPA as well as a grade of C or better in all required program courses. Students must also complete HIST 5700 (department approval required to sign into the course).	
Total Units	**27**

Bachelor of Arts in Public History

The BA in Public History offers undergraduate students an in depth introduction to various fields of public and oral history, including museum management, archival practices, historical archaeology, and oral history. The degree is intended to introduce students to the study and practice of history as presented and made useful to the public in a variety of venues and professional settings, and to prepare students for further professional and academic training and success. As history majors, students receive broad training in the academic discipline of history, and broad content knowledge by surveying courses from around the globe.

Students majoring in the Bachelor of Arts in Public History are also eligible to receive honors in history at graduation if the following conditions are met:

1. At least one-half of the course work required in the major is completed at this university;
2. Earned a grade point average of at least 3.5 in the major, including courses for the major taken elsewhere;
3. Earned an overall undergraduate grade point average of 3.0 ("B") or better;
4. Successful completion of HIST 5970, resulting in a thesis paper.

Applications for honors candidacy must be made by the beginning of the senior year. Approval of candidacy and of the honors project and project advisor rests with the department. The project advisor and one other faculty reader from the department will have the responsibility for evaluation of the completed thesis paper.

Individual courses that must be approved by and scheduled separately, such as independent studies (Hist 5951 Hist 5953), internships (Hist 5750), and community based projects (Hist 3990), can only be repeated for a total of six units each. A one unit course can be repeated up to six times, a three unit course can be repeated twice.

Degree Requirements (51 units)

Total units required for graduation: 120

(Program Code: PHST)

Core courses: (21)		
HIST 1400	World History to c. 1500	3
or ANTH 1400	World History to c. 1500	
HIST 1440	World History from c.1500	3
HIST 2000	United States History to 1877	3
HIST 2010	United States History, 1877 to the Present	3
HIST 3940	Introduction to Writing and Research in History	3
HIST 5840	Proseminar in History	3
HIST 5850	Research Seminar in History	3
Professional Preparation Course (3)		
HIST 3230	Introduction to Public History	3
Professional Preparation Electives (9)		
A minimum of nine units of professional preparation electives from the following		9
HIST 3018	Introduction to Cultural Resource Management	
HIST 3120	Historical Archaeology	
HIST 3160	Archival Practices	
HIST 3180	Introduction to Cultural Resource Management	
HIST 3240	Decolonizing Museums	
HIST 3260	Historic Preservation	
HIST 3290	Topics in Public History	
HIST 3300	Topics in Oral History	
HIST 3740	Collections Management	
HIST 3750	Museum Management	
HIST 3760	Exhibition Development and Design	
HIST 3770	Historical Documentaries	
HIST 3780	Museum Curation	
Internship Requirement (3)		
HIST 5750	Internship in History	3
(or) One three-unit upper-division HIST course with advisory approval		
Specializations (15)		
A minimum of three units chosen from five of the following six areas		15
Ancient History		
HIST 3200	History of Ancient Greece	
HIST 3210	History of Rome	
HIST 3360	Ancient Egyptian Archaeology	
HIST 3390	Culture and Society in Ancient Egypt	
HIST 4260	Ancient and Early Imperial China	
HIST 4420	Archaic Greece	
HIST 4440	Roman Republic	
HIST 4460	Age of Augustus	
HIST 4470	Impact of Warfare in Antiquity	
HIST 4480	Trade, Travel, and Migration in the Ancient Mediterranean World	
HIST 4520	Ancient Egyptian History, Origins to c. 1700 B.C.E.	
HIST 4530	Ancient Egyptian History, c. 1700 B.C.E. to 1000 B.C.E	
HIST 4540	Ancient Egypt, c. 1000 B.C.E. to 495 C.E.	
HIST 4540	Ancient Egypt, c. 1000 B.C.E. to 495 C.E.	
HIST 4550	Egyptian Mining Expeditions, Their Buildings, and Their Slaves	
HIST 4800	History of Christianity I	
African History		
HIST 3860	Africa to 1870	
HIST 3870	Africa 1870 to Present	
HIST 3880	The Rise, Decline and Legacy of Apartheid South Africa	

HIST 3890	Images of Africa
HIST 4490	Gender and Development in Africa
HIST 4510	The History of Health and Medicine in Africa
Asian/Middle Eastern History	
HIST 3830	Classical Islamic Civilization
HIST 3840	Modern Middle East
HIST 4260	Ancient and Early Imperial China
HIST 4280	Medieval China
HIST 4290	Modern China I, 1644-1911
HIST 4310	Modern China II, 1911-Present
HIST 4330	Modern Chinese History in Fiction and Film
HIST 4350	World War II in the Pacific
HIST 4400	History of Modern East Asia
HIST 4560	Mughal India and the Early Modern World
HIST 4570	Modern India at the Crossroads of Empire
HIST 4850	Arab-Israeli Conflict
HIST 4870	Topics in Modern Middle Eastern History
HIST 4950	Politics of Oil
European History	
HIST 3050	Ancient and Medieval Europe to the Renaissance
HIST 3060	European History from the Renaissance to the Present
HIST 3200	History of Ancient Greece
HIST 3210	History of Rome
HIST 3350	Modern Ireland
HIST 4000	Early Medieval Europe
HIST 4010	High Medieval Europe
HIST 4020	Renaissance and Reformation
HIST 4030	The Age of Absolutism and Enlightenment
HIST 4050	Nazi Germany and the Holocaust
HIST 4060	European Intellectual History
HIST 4090	Twentieth Century Europe
HIST 4100	Hitler's Europe
HIST 4810	History of Christianity II
HIST 5000	Tudor and Stuart England
HIST 5010	Britain, 1688-1901
HIST 5030	Europe Since 1945
HIST 5350	Studies in European National History
Latin American History	
HIST 3900	History of Modern Mexico
HIST 4650	Modern Central America
HIST 4660	Foreign Relations of Latin America
HIST 4670	Latin American History Through Film
HIST 4690	Colonial Latin America
HIST 4700	Modern Latin America
United States History	
HIST 3201	Race, Ethnicity and Immigration in the United States
HIST 3400	African-American History, 1620-1865
HIST 3410	African-American History, 1865-Present
HIST 3420	American Indian History
HIST 3430	Great Debates in African American History
HIST 3450	Women in U.S. History, 1607-Present
HIST 3460	Women in the Black Freedom Movement
HIST 3470	Black Freedom Movement Through Film
HIST 3480	Black Panthers and Black Power
HIST 3500	The American Colonies, 1607-1783
HIST 3510	The Evolution of American Democracy, 1783-1840
HIST 3540	Civil War and Reconstruction
HIST 3560	The United States, 1877-1917
HIST 3570	The United States, 1917-1945
HIST 3580	United States in World War II
HIST 3590	United States History, Cold War Era
HIST 3600	American History Through Film
HIST 3610	Chicana/o History Through Film
HIST 3620	LGBT History
HIST 3630	Race, Ethnicity, and Film in America, 1920-Present
HIST 3680	The United States, 1960s
HIST 3700	History of California
HIST 3710	California Indian History
HIST 3790	The History of Madness
HIST 3791	Disability History
HIST 3910	Chicana/o History
HIST 4180	Early American Biography
HIST 4200	US Empire and Foreign Policy 1898-Present
HIST 4220	20th Century Americans
HIST 5400	Constitutional History of the United States
HIST 5410	U.S. Citizenship and the Law
HIST 5470	African American Intellectual History
HIST 5560	Foreign Relations of the United States
HIST 5600	History of the American West
HIST 5610	Gender, Sex, and Conquest in the American West
HIST 5640	Chicana/Mexicana Feminisms
HIST 5650	Immigration and Ethnic American History
HIST 5680	History of the U.S. - Mexico Borderlands
Total Units	**51**

Minor in History

Students majoring in all disciplines are welcome to minor in history. A minor in history provides a perfect complement to many disciplines. It engages students in questions about causality and asks students to see the contingent conditions that have shaped our world. It offers students an opportunity to develop their critical analysis, reading, and writing skills. Students may minor in history by completing 3 units in lower division world history and 15 units in upper division history courses.

Requirements for a minor in History (18 units)

Students must choose one 3 unit course from the following:		3
HIST 1400	World History to c. 1500	
or ANTH 1400	World History to c. 1500	
HIST 1440	World History from c.1500	
Students must complete 15 units of upper division units chosen from five of the following six areas:		15
Ancient History		
HIST 3200	History of Ancient Greece	
HIST 3210	History of Rome	
HIST 3360	Ancient Egyptian Archaeology	
HIST 3380	Ancient Egyptian Art	
HIST 3390	Culture and Society in Ancient Egypt	
HIST 4260	Ancient and Early Imperial China	
HIST 4420	Archaic Greece	
HIST 4440	Roman Republic	
HIST 4460	Age of Augustus	
HIST 4470	Impact of Warfare in Antiquity	
HIST 4480	Trade, Travel, and Migration in the Ancient Mediterranean World	
HIST 4520	Ancient Egyptian History, Origins to c. 1700 B.C.E.	
HIST 4530	Ancient Egyptian History, c. 1700 B.C.E. to 1000 B.C.E	
HIST 4540	Ancient Egypt, c. 1000 B.C.E. to 495 C.E.	
HIST 4540	Ancient Egypt, c. 1000 B.C.E. to 495 C.E.	
HIST 4550	Egyptian Mining Expeditions, Their Buildings, and Their Slaves	
HIST 4800	History of Christianity I	
African History		
HIST 3860	Africa to 1870	
HIST 3870	Africa 1870 to Present	
HIST 3880	The Rise, Decline and Legacy of Apartheid South Africa	
HIST 3890	Images of Africa	
HIST 4500	History of Southern Africa	
HIST 4510	The History of Health and Medicine in Africa	
HIST 4490	Gender and Development in Africa	
Asian/Middle Eastern History		
HIST 3830	Classical Islamic Civilization	
HIST 3840	Modern Middle East	
HIST 4260	Ancient and Early Imperial China	
HIST 4280	Medieval China	
HIST 4290	Modern China I, 1644-1911	
HIST 4310	Modern China II, 1911-Present	
HIST 4330	Modern Chinese History in Fiction and Film	
HIST 4350	World War II in the Pacific	
HIST 4400	History of Modern East Asia	
HIST 4560	Mughal India and the Early Modern World	
HIST 4570	Modern India at the Crossroads of Empire	
HIST 4850	Arab-Israeli Conflict	
HIST 4870	Topics in Modern Middle Eastern History	
HIST 4950	Politics of Oil	
European History		
HIST 3050	Ancient and Medieval Europe to the Renaissance	
HIST 3060	European History from the Renaissance to the Present	
HIST 3200	History of Ancient Greece	
HIST 3210	History of Rome	
HIST 3350	Modern Ireland	
HIST 4000	Early Medieval Europe	
HIST 4010	High Medieval Europe	
HIST 4020	Renaissance and Reformation	
HIST 4030	The Age of Absolutism and Enlightenment	
HIST 4050	Nazi Germany and the Holocaust	
HIST 4060	European Intellectual History	
HIST 4090	Twentieth Century Europe	
HIST 4100	Hitler's Europe	
HIST 4810	History of Christianity II	
HIST 5000	Tudor and Stuart England	
HIST 5010	Britain, 1688-1901	
HIST 5030	Europe Since 1945	
HIST 5350	Studies in European National History	
Latin American History		
HIST 3900	History of Modern Mexico	
HIST 4650	Modern Central America	
HIST 4660	Foreign Relations of Latin America	
HIST 4670	Latin American History Through Film	
HIST 4690	Colonial Latin America	
HIST 4700	Modern Latin America	
United States History		
HIST 3201	Race, Ethnicity and Immigration in the United States	
HIST 3400	African-American History, 1620-1865	
HIST 3410	African-American History, 1865-Present	
HIST 3420	American Indian History	
HIST 3430	Great Debates in African American History	

HIST 3450	Women in U.S. History, 1607-Present	
HIST 3460	Women in the Black Freedom Movement	
HIST 3470	Black Freedom Movement Through Film	
HIST 3480	Black Panthers and Black Power	
HIST 3500	The American Colonies, 1607-1783	
HIST 3510	The Evolution of American Democracy, 1783-1840	
HIST 3540	Civil War and Reconstruction	
HIST 3560	The United States, 1877-1917	
HIST 3570	The United States, 1917-1945	
HIST 3580	United States in World War II	
HIST 3590	United States History, Cold War Era	
HIST 3600	American History Through Film	
HIST 3610	Chicana/o History Through Film	
HIST 3620	LGBT History	
HIST 3630	Race, Ethnicity, and Film in America, 1920-Present	
HIST 3680	The United States, 1960s	
HIST 3700	History of California	
HIST 3710	California Indian History	
HIST 3910	Chicana/o History	
HIST 4180	Early American Biography	
HIST 4200	US Empire and Foreign Policy 1898-Present	
HIST 4220	20th Century Americans	
HIST 5400	Constitutional History of the United States	
HIST 5410	U.S. Citizenship and the Law	
HIST 5470	African American Intellectual History	
HIST 5560	Foreign Relations of the United States	
HIST 5600	History of the American West	
HIST 5610	Gender, Sex, and Conquest in the American West	
HIST 5640	Chicana/Mexicana Feminisms	
HIST 5650	Immigration and Ethnic American History	
HIST 5680	History of the U.S. - Mexico Borderlands	
HIST 6300	California Water History	
Total Units		**18**

Certificate in Egyptology

The Egyptology certificate program allows students to examine the history, culture, society, and identity of those living in Ancient Egypt. Students will have the opportunity to examine cultural development and international connections through a variety of sources, such as art, archaeology, and textual evidence. Courses explore the importance of the past on the present, by applying anthropological, historical, and art historical theory as well as a multi-disciplinary perspective.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Candidates must complete two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

A total of 18 units is required.

Must take a minimum of 9 units from the following: (9)		**9**
HIST 3360	Ancient Egyptian Archaeology	
HIST 3390	Culture and Society in Ancient Egypt	
HIST 4520	Ancient Egyptian History, Origins to c. 1700 B.C.E.	
HIST 4530	Ancient Egyptian History, c. 1700 B.C.E. to 1000 B.C.E	
HIST 4540	Ancient Egypt, c. 1000 B.C.E. to 495 C.E.	
Total Units		**9**

Must take a minimum of 3 units from the following classes: (3)		**3**
HIST 4420	Archaic Greece	
HIST 4460	Age of Augustus	
HIST 4470	Impact of Warfare in Antiquity	
HIST 4480	Trade, Travel, and Migration in the Ancient Mediterranean World	
Total Units		**3**

Students must take a minimum of 6 units from the following classes that are not repeated for the above sections (6)		**6**
HIST 3360	Ancient Egyptian Archaeology	
HIST 3380	Ancient Egyptian Art	
HIST 3390	Culture and Society in Ancient Egypt	
HIST 3860	Africa to 1870	
HIST 3970	Topics in Egyptology (class may be repeated for credit as the topics change)	
HIST 3990E	Community-Based Project in Egyptology	
HIST 4410	Ancient Egyptian Hieroglyphs (class may be repeated for credit if the topic or the level or the readings are different)	
HIST 4420	Archaic Greece	
HIST 4460	Age of Augustus	
HIST 4470	Impact of Warfare in Antiquity	
HIST 4480	Trade, Travel, and Migration in the Ancient Mediterranean World	
HIST 4520	Ancient Egyptian History, Origins to c. 1700 B.C.E.	
HIST 4530	Ancient Egyptian History, c. 1700 B.C.E. to 1000 B.C.E	
HIST 4540	Ancient Egypt, c. 1000 B.C.E. to 495 C.E.	
ANTH 4550	Egyptian Mining Expeditions, Their Buildings, and Their Slaves	
HIST 5750E	Internship in Egyptology	
HIST 5953E	Independent Study in Egyptology	
Total Units		**6**

Current Faculty

Cary Barber, Associate Professor of History
B.A. 2008, University Of North Carolina - Chapel Hill
M.S. 2010, Ohio State University
Ph.D. 2016, Ohio State University

Alicia Gutierrez-Romine, Associate Professor of History
B.A. 2010, Cal State University-San Bernardino
M.A. 2012, University of California-Riverside
Ph.D. 2016, University of Southern California

Diana Johnson, Associate Professor of History
B.A. 2010, Eastern Washington University
Ph.D. 2017, University of California, Davis

Tiffany Jones, Professor of History
B.A. 1999, M.A. 2000, Dalhousie University
Ph.D. 2005, Queen's University, Canada

Michael Karp, Assistant Professor of History
B.A. 2010, California State Polytechnic University, Humboldt
M.A. 2012, Ph.D. 2015, Saint Louis University

Ryan Keating, Professor of History
B.S. 2008, University of California, Davis
M.S. 2012, University of New Mexico
Ph.D. 2013, Fordham University

Kate Liszka, Professor of History
B.A. 2001, Pennsylvania State University
M.A. 2007, Ph.D. 2012, University of Pennsylvania

Thomas Long, Professor of History
B.A. 1993, Sonoma State University
M.A. 2001, California State University, Fullerton
Ph.D. 2006, University of California, Riverside

Michelle Lorimer, Assistant Professor of History
B.A. 2008, California State University, San Bernardino
M.A. 2010, Ph.D. 2013, University of California, Riverside

Jeremy Murray, Professor of History
B.A. 2001, SUNY at Albany
M.A. 2004, Columbia University in the City of New York
Ph.D. 2011, University of California, San Diego

Daisy Ocampo Diaz, Associate Professor of History
B.A. 2011, B.A. 2011, M.A. 2015, Ph.D. 2019, University of California, Riverside

Timothy E. Pytell, Professor of History
B.A. 1985, Colorado Springs College
M.A. 1990, Ph.D. 1999, New York University

Marc Robinson, Associate Professor of History
B.A. 2004, University of Washington, Seattle
Ph.D. 2012, Washington State University, Pullman

David N. Yaghoubian, Professor of History
B.A. 1989, University of California, Santa Cruz
M.A. 1994, Ph.D. 2000, University of California, Berkeley

Emeriti

Elliott R. Barkan

Robert A. Blackey

Lanny B. Fields

Joyce A. Hanson

Ward M. McAfee

Stuart M. Persell

Cheryl A. Riggs

Pedro Santoni

Kent Schofield

Advanced Certificate in Egyptology

The Advanced Certificate in Egyptology program allows students to examine this history, culture, society, and identity of those living in Ancient Egypt. Students will have the opportunity to examine cultural development and international connections through a variety of sources, such as art, archaeology, and textual evidence. These courses explore the importance of the past on the present, by applying anthropological, historical, and art historical theory as well as a multi-disciplinary perspective.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

This certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Students muse take a minimum of 18 units from the following classes (18)		**18**
HIST 5750E	Internship in Egyptology	
HIST 5953E	Independent Study in Egyptology	
HIST 6550	Advanced Egyptian Mining Expeditions, Their Buildings, and Their Slaves	
HIST 6901	Advanced Topics in Egyptology (Can be repeated for credit as topic changes)	
HIST 6953E	Directed Graduate Studies in Egyptology	
HIST 6955E	Advanced Community-Based Project in Egyptology	
Please note: all courses, with exception of HIST 6550 and HIST 6901, require approval of program coordinator and/or department chair		

Certificate in Museum Studies

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (15 units)

A Minimum of 15 Units Chosen From These Courses: (15)		**15**
HIST 3012	Historical Archaeology	
HIST 3018	Introduction to Cultural Resource Management	
HIST 3160	Archival Practices	
HIST 3230	Introduction to Public History	
HIST 3260	Historic Preservation	
HIST 3740	Collections Management	
HIST 3750	Museum Management	
HIST 3760	Exhibition Development and Design	
HIST 3770	Historical Documentaries	
HIST 3780	Museum Curation	
HIST 5750	Internship in History (May be repeated for a total of 6 units)	
HIST 5953	Independent Study	
HIST 6160	Advanced Archival Practices	

HIST 6180	Advanced Cultural Resource Management
HIST 6230	Advanced Public History
HIST 6750	Advanced Museum Management
HIST 6760	Advanced Exhibit Design
HIST 6780	Advanced Museum Curation
HIST 6900	Advanced Topics in History
HIST 6953	Directed Graduate Studies
HIST 6960	Graduate Project
Total Units	**15**

Department of Political Science

Political Science

Social and Behavioral Sciences Building, Room 112
(909) 537-5535 Department of Political Science website (https://csbs.csusb.edu/political-science/)

The major in political science is designed for students who desire a liberal arts program with an emphasis on politics, government and public policy; plan a career in government service or public administration; seek training for positions in foreign service agencies of the United States government, international organizations or corporations; intend to study law; wish to prepare for teaching in the public schools; or intend to work for advanced degrees in political science in preparation for college or university teaching or for government service.

The department offers courses in the following fields:

- American government and politics
- Comparative politics
- International relations
- Political theory
- Public law

Departmental Honors

Students majoring in political science who have a grade point average of at least 3.0 overall and 3.5 in the major are eligible to receive departmental honors at graduation.

Pi Sigma Alpha

Qualified students may join the CSUSB Chapter of Pi Sigma Alpha, the national political science honor society. Student must have completed at least 15 quarter hours or ten semester hours of work in political science including at least one course not open to students in the first two years of collegiate work. The student must have at least 90 credits overall. Seniors must have at least a 3.0 average or higher in all political science courses and at least a 3.0 average overall. Juniors must have at least a 3.25 grade point average overall and in all political science courses. Additional information can be obtained from the Department of Political Science.

National Security Studies

Social and Behavioral Sciences Building, Room 112
(909) 537-5534 National Security Studies website (https://csbs.csusb.edu/political-science/graduate-programs/)

The Master of Arts in National Security Studies and the Master of Science in National Cyber Security Studies are professionally oriented, interdisciplinary, graduate-level programs housed within the College of Social and Behavioral Sciences. The M.A. program is designed to develop an understanding of the substance and principles of defense policy analysis, intelligence analysis, strategic planning and arms control in relation to the contemporary international environment. Flexibility within elective courses permits the student to emphasize research in national security issues of his or her special interests. The M.S. program is designed to develop an understanding of cyber security and intelligence analysis; the ability to understand and analyze the technical aspects of cyber threats from a geostrategic perspective, and analyze and communicate those threats to non-specialists.

The program is relevant to established career personnel in defense analysis and related specialties, the military services, the civil service, and the intelligence community. Additionally, the program is structured to provide motivated persons holding a Bachelor of Arts degree and/or Bachelor of Science degree from an accredited institution with the higher educational skills necessary for entry into the above mentioned career fields or to pursue doctoral studies.

Headquartered within the National Security Studies program is the California State University Intelligence Community Center of Academic Excellence (IC CAE) that develops students for potential careers in the intelligence community, national service, or as local first responders through education in foreign affairs, world languages, and security studies.

Pi Sigma Alpha

Qualified graduate students may join the CSUSB Chapter of Pi Sigma Alpha, the National Political Science Honor society. Graduate students must be enrolled in a political science graduate program and must have completed at least 9 semester units (12 quarter units) of graduate work in political science with a grade no lower than a "B" in any course in their graduate program. Additional information can be obtained from the Department of Political Science.

Current Faculty

Fabian Borges Herrero, Professor of Political Science
B.A. 2005, Universidad de Costa Rica
M.A. 2008, Georgetown University
Ph.D. 2014, University of Southern California

Steven Childs, Associate Professor of Political Science
B.A. 2005, University of Southern California
M.A. 2009, Claremont Graduate University
Ph.D. 2011, Claremont Graduate University

Meredith Conroy, Professor of Political Science
B.A. 2005, Whittier College
M.A. 2007, Purdue University
Ph.D. 2010, University of California, Santa Barbara

Antony Field, Associate Professor of Political Science
B.A. 2000, University of Hull, England
M.S. 2002, Missouri State University
Ph.D. 2010, University of Warwick

Theodora Giallouri, Assistant Professor of Political Science
B.A. 2007, Panteion University of Social and Political Sciences
M.A. 2009, California State University, Los Angeles
Ph.D. 2019, University of Southern California

Brian P. Janiskee, Professor of Political Science, Interim Chair, Interim Chair
B.A. 1989, Western Michigan University
M.A. 1992,Michigan State University
Ph.D. 1996, Michigan State University

Lubov Levin-Banchik, Associate Professor of Political Science
B.A. 2008
M.A. 2010
Ph.D. 2016

Christina Villegas, Professor of Political Science
B.A. 2003, California State University, San Bernardino
M.A. 2006, Ph.D. 2013, University of Dallas

Scot J. Zentner, Professor of Political Science, Chair
B.A. 1988, California State University, San Bernardino
M.A. 1991, Ph.D. 1994, Michigan State University

Emeriti

Richard T. Ackley

Mark T. Clark

Edward J. Erler

Carol F. Goss

Brij B. Khare

Michael LeMay

Alemayehu Mariam

Jamal Nassar, Dean

Ralph Salmi

James D. Thomas

Undergraduate Degree

Bachelor of Arts

Political Science (p. 350)

Minors

Political Science (p. 351)

Pre-law (p. 352)

Certificates

- International Relations (p. 351)
- Graduate National Cybersecurity Studies (p. 353)

Bachelor of Arts in Political Science

The major in political science is designed for students who desire a liberal arts program with an emphasis on politics, government and public policy; plan a career in government service or public administration; seek training for positions in foreign service agencies of the United States government, international organizations or corporations; intend to study law; wish to prepare for teaching in the public schools; or intend to work for advanced degrees in political science in preparation for college or university teaching or for government service. For the BA in Political Science, students choose one of two concentrations for their BA degree: General Political Science or Law and Politics.

Requirements (45 units)

Total units required for graduation: 120

Requirements for the B.A. in Political Science

(Program Code: PSCI)

Core Requirements		15
PSCI 1000	Introduction to Politics	
PSCI 2030	Government of the United States	
PSCI 2040	International Relations	
PSCI 3140	American Political Thought	
SSCI 3060	Expository Writing for the Social Sciences	
Six units from the following Senior Seminars:		6
PSCI 5300	Studies in Political Theory	
PSCI 5350	Seminar in Constitutional Law	
PSCI 5400	Seminar in Comparative Politics	
PSCI 5900	Seminar in International Relations	
PSCI 5920	Seminar in Government	
American Politics. Three units chosen from:		3
PSCI 3200	The Legislative Process	
PSCI 3260	Political Parties and Interest Groups	
PSCI 3300	State and Local Politics	
PSCI 4310	The American Presidency	
PSCI 4400	Public Opinion	
PSCI 5280	Formulation of Public Policy	
Comparative government. Three units chosen from:		3
PSCI 3000	Western Political Systems	
PSCI 3010	African Politics	
PSCI 3040	East European Political Systems	
PSCI 3050	East Asian Politics	
PSCI 3060	Latin American Politics	
PSCI 3080	Government and Politics of the Middle East	
International relations. Three units chosen from:		3
PSCI 3250	American Foreign Policy	
PSCI 4000	International Politics	
PSCI 4840	National Security Policy	
PSCI 5100	International Organization	
Political theory. Three units chosen from:		3
PSCI 3100	Classical Political Thought	
PSCI 3110	Foundations of Modern Political Thought	
PSCI 3130	Modern Political Thought	
PSCI 3150	Post Modern Political Thought	
PSCI 5200	War and Politics	

Concentrations (12)	**12**
Total Units	**45**

Note: The following will count as electives only after approval by the department chair: PSCI 5751, PSCI 5752, PSCI 5753, PSCI 5951, PSCI 5952, PSCI 5953.

With approval of the department chair, up to six units in related fields may be counted toward the upper-division course requirement in political science

Concentrations pending Office of the Chancellor Approval

Concentrations (12 units)

General Political Science Concentration

Public Law. Students choose 3 units from the following:		3
PSCI 3280	Judicial Process	
PSCI 3600	International Law	
PSCI 4100	American Constitutional Law	
PSCI 4110	The Bill of Rights	
PSCI 4120	Civil Rights	
PSCI 4500	Law and Social Policy	
PSCI 4550	Politics, Economics and Law	
PSCI 4600	Politics, Law and Bureaucracy	
PSCI 5250	Constitutional Interpretation	
PSCI 5500	Intelligence, Law and Security	
An additional 9 units of Upper Division Political Science courses.		9
Total Units		**12**

Law & Politics Concentration

Public Law. 9 units chosen from the following:		9
PSCI 3280	Judicial Process	
PSCI 3600	International Law	
PSCI 4100	American Constitutional Law	
PSCI 4110	The Bill of Rights	
PSCI 4120	Civil Rights	
PSCI 4500	Law and Social Policy	
PSCI 4550	Politics, Economics and Law	
PSCI 4600	Politics, Law and Bureaucracy	
PSCI 5250	Constitutional Interpretation	
PSCI 5500	Intelligence, Law and Security	
An additional 3 units in any Upper Division Political Science course.		3
Total Units		**12**

Certificate in International Relations

This certificate program is designed to provide students with the knowledge essential for professional endeavors in the field of international relations, as well as generate a base for further academic study. The content includes knowledge pertaining to international actors and institutions, as well as their perspectives and affairs.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (18 units)

Twelve units chosen from:		12
PSCI 3000	Western Political Systems	
PSCI 3010	African Politics	
PSCI 3040	East European Political Systems	
PSCI 3050	East Asian Politics	
PSCI 3060	Latin American Politics	
PSCI 3080	Government and Politics of the Middle East	
PSCI 3250	American Foreign Policy	
PSCI 4000	International Politics	
PSCI 4840	National Security Policy	
PSCI 5000	International Law	
PSCI 5100	International Organization	
PSCI 5400	Seminar in Comparative Politics	
PSCI 5900	Seminar in International Relations	
Six units chosen from:		6
ECON 3318	International Economics	
ECON 3780	Multinational Corporations	
FIN 4330	International Finance	
HIST 5030	Europe Since 1945	
HIST 5560	Foreign Relations of the United States	
MGMT 4050	Managing Across Borders	
SSCI 3000	Global Issues and Perspectives	
Total Units		**18**

Minor in Political Science

Requirements for a minor in Political Science (18 units)

PSCI 2030	Government of the United States	3
PSCI 2040	International Relations	3
PSCI 3140	American Political Thought	3
Nine units of upper-division political science course work chosen in consultation with an advisor.		9
Total Units		**18**

Minor in Philosophy, Policy, and Economics

Requirements for a minor in Philosophy, Policy and Economics (21 units)

Students must complete 21 units from the courses listed below with a minimum of six units in each of the fields. Students who major in philosophy, political science or economics must earn 15 units outside their major from the courses listed below.		21
Philosophy		
PHIL 3330	Social and Political Philosophy	
PHIL 3350	Philosophy of Law	
PHIL 3355	Jurisprudence	
PHIL 3390	Topics in Value Theory	
PHIL 4300	Advanced Issues in Value Theory	
Economics		
ECON 3101	Political Economy of Southern California	
ECON 3103	Environmental Economics	
ECON 3105	Political Economy	
ECON 3109	Political Economy of Women	
ECON 3125	Economic History of the United States	
Political Science		
PSCI 3100	Classical Political Thought	
PSCI 3110	Foundations of Modern Political Thought	
PSCI 3130	Modern Political Thought	
PSCI 3150	Post Modern Political Thought	
Total Units		**21**

Minor in Pre-Law

Minor Requirements (18 units)

PSCI 3280	Judicial Process	3
PSCI 4100	American Constitutional Law	3
PSCI 4110	The Bill of Rights	3
Nine units chosen from:		9
HIST 5400	Constitutional History of the United States	
PSCI 3600	International Law	
PSCI 4500	Law and Social Policy	
PSCI 4550	Politics, Economics and Law	
PSCI 4600	Politics, Law and Bureaucracy	
PSCI 5000	International Law	
PSCI 5250	Constitutional Interpretation	
PSCI 5350	Seminar in Constitutional Law	
PSCI 5500	Intelligence, Law and Security	
Total Units		**18**

Post-Graduate Certificate in National Cybersecurity Studies

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

This certificate provides graduate level instruction in core aspects of national security and cyber security studies. It is designed for students interested in careers in these fields or as a foundation for further academic study. The certificate is comprised of 12 semester units.

Certificate Requirements (12 units)

Each of the following four courses (12 units total) is required.		12
PSCI 4840	National Security Policy	
PSCI 5900	Seminar in International Relations (Intelligence Techniques and Analysis)	
PSCI 5920	Seminar in Government (Research Methods)	
PSCI 6020	International Security	
Total Units		**12**

Department of Psychology

Social and Behavioral Sciences Building, Room 327
(909) 537-5570 Department of Psychology website (http://psychology.csusb.edu/)

The general objectives of the Bachelor of Arts in Psychology are to present the scientific and professional aspects of psychology to the undergraduate majoring in this field and to provide service courses as electives for students throughout the university. Psychology majors may plan to apply the knowledge and skills provided by a broad psychology background to many diverse employment opportunities which do not require graduate training. The department also offers coursework leading to the Master of Arts or the Master of Science in Psychology. Students intending to enroll in these programs or another graduate school will find that the undergraduate program provides an excellent base for entry into graduate level training.

Undergraduate Programs in the Psychology Department

There are three concentrations within the Psychology B.A. These are **Biological Psychology, General Psychology, or Industrial-Organizational Psychology**.

Biological Psychology represents a course of study focusing on the neurological and physiological bases of human behavior. You will study such things as the brain processes implicated in various psychological disorders, the neurological basis of addiction, and the specific ways in which psychotropic drugs influence the brain and behavior.

Through regular advising and the guidance of our faculty, students who opt for the **General Psychology** degree will be able to create an individualized plan including an informal concentration in any of several subareas within psychology such as clinical/counseling psychology, social psychology, developmental psychology, cognitive psychology, and experimental psychology.

Industrial-Organizational Psychology concerns the psychology of the workplace. I/O psychologists are concerned with personnel selection, gender equity in work settings, understanding and improving relations between employer and employee, program evaluation, employee mental health, and many other issues regarding the interface between psychology and business.

Departmental Honors

Students majoring in psychology are eligible to receive honors in psychology at graduation if the following conditions are met:

1. At least a 3.5 grade point average in the major;
2. An overall grade point average of 3.5 or better*;
3. Completion of one WI designated course (typically fulfilled through GE) with a “B” or better prior to enrollment in the Honors Program;
4. Completion of PSYC 3311 with a “B+” or better prior to enrollment in the Honors Program;
5. Completion of the Application for Honors Program in Psychology, which includes a statement of purpose and approval of a faculty sponsor;
6. Completion of the two-semester Honors Program with a grade of "B" (3.0) or better each term:

PSYC 5597	Honors Seminar	3
PSYC 5598	Honors Project	3

Students interested in this recognition must file a formal application for enrollment in the Psychology Honors Program in their junior year.

Note that the qualifications above are ideal rather than absolute; students who fall short on one of the requirements may be considered on a case-by-case basis.

Graduate Programs in the Psychology Department

The **Master of Arts in Psychological Science** provides a program of study with courses selected from a variety of basic areas in psychology. The program provides a broad background suitable for entry into doctoral programs in any area of psychology (e.g., social, cognitive, developmental, neuroscience, or clinical); or for employment that benefits from a Master of Arts degree in Psychology. A central component of the program is involvement in active research in some area of psychology under the guidance of the program faculty.

The **Master of Science in Clinical/Counseling Psychology** provides students with practical skills in counseling - through supervised training and experience - and a critical understanding of the relevant subject

matter and the research evidence base. The program offers required course work designed to meet the educational requirements for licensure as a Marriage and Family Therapist (MFT) as outlined by the California Board of Behavioral Sciences. This is a full-time, day-time program designed to be completed in two years. The program culminates with either a thesis or comprehensive examination.

The **Master of Science in Industrial and Organizational Psychology** provides students with the skills to apply the scientific principles and methods of psychology to organizations, public and private, and to settings where people are engaged in work. To be successful, the graduate must have developed knowledge and appreciation of psychological theory and research as they apply to organizations and people at work, and mastery of the statistical, measurement, and research technologies which are commonly used in the discipline.

Current Faculty

Mark D. Agars, Professor of Psychology
B.A. 1992, Sienna College
M.S. 1996, Ph.D. 1999, Pennsylvania State University

Erin Alderson, Lecturer in Psychology
B.A. 2015, California State University, San Bernardino
M.A. 2017, California State University, San Bernardino
Ph.D. 2024, University of California, Riverside

Dionisio Amodeo, Professor of Psychology
B.A. 2006, CSU San Bernardino
M.A. 2009, CSU San Bernardino
Ph.D. 2015, University of Illinois at Chicago

Leslie Amodeo, Associate Professor of Psychology
B.A. 2008, California State University, San Bernardino
M.A. 2010, California State University, San Bernardino
Ph.D. 2016, University of Illinois

Manijeh Badiee, Professor of Psychology
B.A. 2002, Austin College
M.A. 2007, Saint Edward's University
Ph.D. 2012, University of Nebraska-Lincoln

Brittany Bloodhart, Associate Professor of Psychology
B.A. 2005, University of Kansas
M.S. 2009, Pennsylvania State University
Ph.D. 2013, The Pennsylvania State University

Nicolas Brunet, Professor of Psychology
B.A. 2001, Universidad de Las Americas, Mexico
Ph.D. 2006, Florida State University

John P. Clapper, Professor of Psychology
B.A. 1983, State University of New York at Buffalo
Ph.D. 1988, Stanford University

Sheri Coulson, Lecturer in Psychology
B.A. 1993, California State University, San Bernardino
M.S. 1995, 2019, 2021, California State University, San Bernardino
Ph.D. Claremont Graduate University

Cynthia A. Crawford, Professor of Psychology
B.A. 1985, Washington University
M.A. 1989, Ph.D. 1992, University of Kentucky

Ismael Diaz, Associate Professor of Psychology
B.A. 2008, University of California, Riverside
M.S. 2011, Ph.D. 2013, Texas A&M, College Station

Stacy Forcino, Associate Professor of Psychology
B.A. 2003, University of California, Los Angeles
M.S. 2008, Ph.D. 2010, Idaho State University

Donna Garcia, Professor of Psychology
B.A. 1999, Wilfrid Laurier University
M.A. 2001, University of Guelph
Ph.D. 2006, University of Kansas

Janelle Gilbert, Professor of Psychology
B.A. 1988, New York University
M.A. 1990, Ph.D. 1994, George Mason University

Cari Goetz, Professor of Psychology
B.S. 2006, University of California, Los Angeles
Ph.D. 2014, University of Texas, Austin

Christina Hassija, Professor of Psychology, Dean, Dean
B.A. 2004, M.A. 2006, California State University, Northridge
Ph.D. 2011, University of Wyoming

Gino Howard, Assistant Professor of Psychology
Ph.D. 2023, Louisiana State University, Alexandria

Jacob Jones, Professor of Psychology
B.A. 2009, CSU Channel Islands
M.S. 2012, University of Florida
Ph.D. 2016, University of Florida

Hideya Koshino, Professor of Psychology
B.A. 1983, M.A. 1985, International Christian University, Tokyo
Ph.D. 1994, University of Kansas

Jennifer Lotto, Lecturer in Psychology
B.A. 2005, California State University, San Bernardino
M.A. 2007, California State University, San Bernardino
Ph.D. 2022, Grand Canyon University

Miranda McIntyre, Associate Professor of Psychology
B.S. 2012, Central Michigan University
M.S. 2015, Purdue University
Ph.D. 2018, Purdue University

Anahid Modrek, Assistant Professor of Psychology
B.A. University of California, Berkeley
M.S., Ph.D. 2016, Columbia University, New York

Nicholas Moon, Assistant Professor of Psychology
B.S. Georgia College & State University
M.S., Ph.D. 2023, Florida Institute of Technology

Christopher Morin, Lecturer in Psychology
B.A. 2015, California State University, San Bernardino
M.S. 2017, California State University, San Bernardino

Stephen Ramos, Assistant Professor of Psychology
B.A. University of North Texas
M.A. Texas State University
Ph.D. 2022, Illinois Institute of Technology

Jason Reimer, Professor of Psychology
B.A. 1993, M.A. 1996, University of Nebraska at Omaha

Ph.D. 2001, University of Nebraska-Lincoln

Maria Santos, Associate Professor of Psychology
B.A. 2008, University of California, Los Angeles
M.S. 2013, University of Wisconsin, Milwaukee
Ph.D. 2016, University of Wisconsin, Milwaukee

Kenneth S. Shultz, Professor of Psychology, Chair, Chair
B.A. 1984, State University of New York, College at Potsdam
M.A. 1987, Ph.D. 1992, Wayne State University

Emeriti

Sybil Carrere

David V. Chavez

Yuchin Chien

Gloria A. Cowan

Robert Cramer

Stuart Ellins

Diane F. Halpern

Philip L. Herold

Charles D. Hoffman

Janet L. Kottke

Michael Lewin

Sanders McDougall

Kenton L. Monroe

Frederick A. Newton

M. Jean Peacock

Robert B. Ricco

David M. Riefer

Matt L. Riggs

Ed Schneiderhan

Geraldine B. Stahly

Edward C. Teyber

Jodie B. Ullman

Joanna Worthley

Special Appointment

Kelly Campbell, Professor of Psychology, Vice Provost
B.A. 2000, M.A. 2003, University of British Columbia
Ph.D. 2008, University of Georgia

Graduate Degrees

Master of Arts

Psychological Science (p. 355)
with concentrations in:
- General
- Behavioral and Cognitive Neuroscience

Master of Science

Clinical/Counseling Psychology (p. 357)

Industrial and Organizational Psychology (p. 358)

Undergraduate Degrees

Bachelor of Arts

Psychology (p. 359)
with concentrations in:
- Biological Psychology
- Industrial and Organizational Psychology Concentration

Minor

Psychology (p. 361)

Master of Arts in Psychological Science

The objective of the Master of Arts in Psychological Science is to provide a program of study with courses selected from a variety of basic areas in experimental psychology. The program provides a broad background suitable for entry into doctoral programs in any area of psychology (e.g., social, cognitive, developmental, neuroscience, or clinical); or for employment that benefits from a Master of Arts degree in Psychology. Active research involvement in some area of Psychological Science will be expected of all students in the program.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A baccalaureate degree with a major in psychology; or with any other undergraduate major;
2. Satisfy the graduate admissions committee of the Department of Psychology that a satisfactory course of study has been pursued in preparation for graduate study in psychology;
3. A cumulative undergraduate grade point average of at least 3.0 ("B") overall and in the major;
4. A brief statement describing preparation for graduate study (e.g., research experience, academic accomplishments), identifying a specific Psychological Science faculty member (or two) whose research is of particular interest to the applicant, and discussing the applicant's professional aspirations and goals for graduate study. To be submitted to the department;
5. Three letters of recommendation, with at least two from former professors. Letters should come directly from the writers or be included in a placement file. (It is the applicant's responsibility to determine if letters have been received.);
6. Satisfaction of the prerequisites or their equivalent:

PSYC 100	Introduction to Psychology
PSYC 210	Psychological Statistics
PSYC 311	Introduction to Experimental Psychology

Students who meet the general requirements of the university for admission to graduate study, but who do not meet the Psychology Department's specific requirements for admission to classified status or who wish to take course work prior to spring quarter consideration of their application for classified status, may be admitted to the university in the unclassified postbaccalaureate status. Unclassified postbaccalaureate students may enroll, with consent of the Psychology Department, in selected graduate courses.

Advancement to Candidacy

At the end of the winter semester, all first year graduate students will be evaluated to determine whether or not they will be advanced to candidacy for the Master of Arts degree. Students will be reevaluated each semester until they are either advanced to candidacy or declassified.

To be formally advanced to candidacy, a student must, to the satisfaction of the chair of the department, have:

1. Achieved classified status;
2. Successfully completed 17 units of course work in the program and maintained a 3.0 ("B") grade point average in the course work;
3. Selected a graduate advisor to supervise the course of study;
4. Complied with the ethical standards of the American Psychological Association;
5. Filed an approved graduate program which must have the approval of the student's advisor, the department chair or the graduate program director and the Dean of Graduate Studies;
6. Demonstrated successful research participation with a faculty advisor. Success will be determined by a passing grade in PSYC 6952 (2 units). PSYC 6953 (3 units) will be reserved for the completed thesis proposal after advancement. This requirement can be fulfilled in one of three ways:
   a. Student becomes familiar with the literature in a research area related to their thesis research. This could take the form of a partial literature review, an annotated bibliography and/or a presentation of the literature of interest to faculty/student groups.
   b. Student becomes familiar with several related research literatures if their area of interest is currently undeveloped or if specialized knowledge of particular methodologies requires further investigation for the development of a thesis project.
   c. Student acquires skills in certain specialized research methods which will pertain to their abilities to gather data for the thesis. Examples of such activities could include gathering pilot data to acquire interview skills, knowledge of survey procedures, assessment skills, advanced statistical skills, understanding of content analysis, skills to work with a special population, or advanced physiological measurement skills.

Requirements for Graduation

1. A minimum of 34 semester units of approved graduate-level work, with a minimum of 25 units completed at this university. Any transfer units are subject to approval by the program director.
2. A grade point average of at least 3.0 ("B") in all courses taken to satisfy the Master of Arts degree, grades of "B-" (2.7) or better in each required course in the program, and grades of "C" (2.0) or better in each elective course;
3. Successful completion of the course work listed below, including a culminating experience consisting of the completion and defense of an original master's thesis;
4. The Graduate Writing Assessment Requirement is met through successful completion of PSYC 6640 with a grade of B- or higher.
5. Any additional general requirements not cited above and listed in Graduate Degree and Program Requirements (p. 74).

Classified graduate students in the Master of Arts program must complete their degree requirements within seven years of admission to that program. Students in classified status who fail to register for at least one course in the Psychology M.A. program each semester will automatically be declassified. PSYC 6990-6996 (Continuous Enrollment for Graduate Candidacy Standing) must be taken if another course is not taken during a given semester.

Degree Requirements (34-35 units)

PSYC 6001	Proseminar in Psychological Science I	2
PSYC 6002	Proseminar in Psychological Science II	1
PSYC 6952-6955	Advanced Independent Study (2-5 units for a total of 5)	5
PSYC 6640	Advanced Methods in Psychological Research	3
PSYC 6641	Analysis of Variance	4
PSYC 6656	Advanced Biological Psychology	3
Three units of PSYC 5000- or 6000-level courses, excluding PSYC 5951-5953, PSYC 6951-6955, PSYC 6121-6125 and PSYC 6891-6893.		3
Culminating Experience (4)		**4**
Concentration (9-10)		
Students must satisfy the requirements of one of the concentrations listed below		9-10
Total Units		**34-35**

Culminating Experience (4 units)

PSYC 6974	Thesis	4
Complete and defend original Master's Thesis		
Total Units		**4**

Concentrations (9-10 units)

General Concentration (10 units)

(Program Code: PYSC)

PSYC 6642	Regression and Nonparametric Statistics	4
PSYC 6650	Advanced Cognitive Psychology	3
PSYC 6658	Advanced Social Psychology	3
Total Units		**10**

Behavioral and Cognitive Neuroscience Concentration (9 units)

(Program Code: PBCN)

Overview: The objective of the Behavioral and Cognitive Neuroscience concentration is to provide a focused course of study for students intending to advance to doctoral programs in biological psychology, behavioral neuroscience, cognitive neuroscience or related disciplines; or for employment that benefits from a Master of Arts degree in Psychology or training related to Neuroscience. Students will obtain a strong understanding of experimental design and statistics, and then choose core courses tailored to their future academic goals. Active research involvement in Behavioral and/or Cognitive Neuroscience is an expectation of the program.

Nine units chosen from:		9
PSYC 5538	Introduction to Psychopharmacology	
PSYC 5539	Current Methods in Neuroscience	
PSYC 5562	Neural Mechanisms of Learning and Memory	
PSYC 5567	Neural Substrates of Psychiatric Disorders	
PSYC 6642	Regression and Nonparametric Statistics	
PSYC 6652	Advanced Learning and Motivation	
Total Units		**9**

Master of Science in Clinical/ Counseling Psychology

The principal objective of the master of science clinical/counseling psychology program is to provide students with practical skills in counseling - through supervised training and experience - and a critical understanding of the relevant subject matter and the research evidence base. The program offers required course work designed to meet the educational requirements for licensure as a Marriage and Family Therapist (MFT) as outlined by the California Board of Behavioral Sciences. The program is a full-time, day-time program designed to be completed in two years.The program culminates with either a thesis or comprehensive examination.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A minimum cumulative undergraduate grade point average of 3.0;
2. A minimum cumulative undergraduate grade point average in the major of 3.0 ("B");
3. A baccalaureate degree in psychology; or
   A baccalaureate degree in a major other than psychology, including a course of study judged, by the Psychology Department graduate admissions committee, to be satisfactory preparation for graduate study in psychology.
4. Submission to the department graduate admissions committee of a brief statement (one or two typewritten pages) of the student's preparation for graduate study, goals in a graduate training program and professional aspirations following receipt of the master's degree;
5. Submission of three letters of recommendation from people who are in a position to make relevant comments on the student's likely success in a graduate psychology program. At least two of these letters should be from former professors who are familiar with the student's scholarly activities.

For students seeking admission in the M.S.Clinical/Counseling program, the following courses are required for classified status:

Completion of the following prerequisite courses or their equivalent:		
PSYC 1100	Introduction to Psychology	3
PSYC 2210	Psychological Statistics	4
PSYC 3311	Research Methods in Psychology	4
PSYC 3385	Personality Psychology	3
or PSYC 3386	Introduction to Psychotherapy	
PSYC 3390	Abnormal Psychology	3

Students who meet the general requirements of the university for admission to graduate study, but who do not meet the Psychology Department's specific requirements for admission to classified status or who wish to take course work prior to winter quarter consideration of their application for classified status, may be admitted to the university in the unclassified postbaccalaureate status. Unclassified postbaccalaureate students may enroll, when space is available, in selected graduate courses, with the instructor's approval.

Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified status;
2. Secured a graduate advisor to supervise the course of study;
3. Completed, with the approval of the student's advisor, at least 30 semester units of graduate course work at this university, and achieved a minimum grade point average of 3.0 ("B") in those courses;
4. Satisfied the Writing Requirement for Graduate Candidacy (WRGC);
5. Filed an approved Advancement to Candidacy form which must have the approval of the student's advisor, the department chair or chair of the graduate program committee and the Dean of Graduate Studies.

Requirements for Graduation

1. Completed at least 60-68 semester units of course work (depending on the culminating option selected (Thesis or Comprehensive examination) in # 2 below) in graduate program with a grade point average of at least 3.0 ("B") and grades of "C" (2.0) or better in all courses in the program with at least 30 semester units completed at this university;
2. One of the following:
   a. Completed and defended an original thesis. Students selecting the thesis option take three units of PSYC 6953 in preparation for the thesis.
      OR
   b. Successful completion of the comprehensive examination. Students selecting the comprehensive examination option take three units of PSYC 6123 in preparation for the examination;
3. Received the approval of the student's graduate advisor;
4. Any additional general requirements not cited above and listed in Graduate Degree and Program Requirements (p. 74).
   The comprehensive examination is designed to be integrative in nature and is offered during the spring semester only. Students who do not receive a passing grade may elect to:
   a. Repeat the examination, one additional time only
      OR

b. Complete PSYC 6974 Thesis.
   Complete details regarding the comprehensive examination option are available from the Psychology Department.

5. The Graduate Writing Assessment Requirement is met upon successful completion of either PSYC 6974 or PSYC 6980.

Classified graduate students in the Master of Science in Clinical/Counseling Psychology program must complete their degree requirements within seven years of admission to the program. Students with classified status who fail to register for at least one course in the Psychology M.S. program each quarter will automatically be declassified.

Degree Requirements (60-68 units)

(Program Code: CCPY)

PSYC 6618	Community and Public Mental Health	3
PSYC 6619	Community Disaster, Trauma and Resilience	3
PSYC 6633	Professional Ethics & Law in Counseling	3
PSYC 6636	Multicultural Counseling	3
PSYC 6638	Substance Abuse: Detection, Assessment and Treatment	3
PSYC 6640	Advanced Methods in Psychological Research	3
PSYC 6654	Advanced Life-Span Developmental Psychology	3
PSYC 6665	Psychopathology	3
PSYC 6667	Family Processes	3
PSYC 6671	Marriage and Family Therapy Skills I	6
PSYC 6672	Marriage and Family Therapy Skills II	6
PSYC 6674	Child Therapy	3
PSYC 6679	Theories of Counseling and Psychotherapy	3
PSYC 6682	Clinical Assessment	3
PSYC 6871	Marriage and Family Therapy Practicum I	3
PSYC 6872	Marriage and Family Therapy Practicum II	3
PSYC 6971	Advanced Practicum in Counseling Psychology I	2
PSYC 6972	Advanced Practicum in Counseling Psychology II	1
Culminating Experience (3-11)		**3-11**
Total Units		**60-68**

Culminating Experience (3-11 Units)

The M.S. Clinical/Counseling Psychology Program offers two culminating experience options.

Comprehensive Examination Option (3 units)

Passage of written examination covering the areas of competence assessed on the California MFT license examinations.

PSYC 6123	Directed Readings	3
PSYC 6980	Comprehensive Examination	0
Total Units		**3**

Thesis Options (11 units)

Successful completion and defense of an original research project including a review of relevant literature, methodology, data analysis, and critique.

PSYC 6641	Analysis of Variance	4
or PSYC 6642	Regression and Nonparametric Statistics	
PSYC 6953	Advanced Independent Study	3
PSYC 6974	Thesis	4
Total Units		**11**

Master of Science in Industrial and Organizational Psychology

The principal objective of the Master of Science in Industrial and Organizational Psychology program is to provide students with the skills to apply the principles and methods of psychology to organizations, public and private, and to settings where people are engaged in work. To be successful, the graduate must have developed knowledge and appreciation of psychological theory and research as they apply to organizations and people at work, and mastery of the measurement and research technologies which are commonly used in the discipline.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A minimum cumulative undergraduate grade point average of 2.5;
2. A minimum cumulative undergraduate grade point average in the major of 3.0 ("B");
3. A baccalaureate degree in psychology;
   or
   one of the following:
   a. A baccalaureate degree in a major other than psychology and score at or above the 50th percentile on the Graduate Record Examination (advanced test in psychology);
   b. A baccalaureate degree in a major other than psychology, including a course of study, judged, by the Psychology Department graduate admissions committee, to be satisfactory preparation for graduate study in psychology;
4. Submission to the department graduate admissions committee of a brief statement (one or two typewritten pages) of the student's preparation for graduate study, goals in a graduate training program, and professional aspirations following receipt of the master's degree;
5. Submission of three letters of recommendation from people who are in a position to make relevant comments on the student's likely success in a graduate psychology program. At least two of these letters should be from former professors who are familiar with the student's scholarly activities.

Completion of the following prerequisite courses or their equivalent:

Introduction to Psychology

Psychological Statistics

Introduction to Experimental Psychology

The following courses (or equivalent) are recommended:

Organizational Psychology or Organizational Behavior

Industrial Psychology

Tests and Measurements

Students who meet the general requirements of the university for admission to graduate study, but who do not meet the Psychology Department's specific requirements for admission to classified status or who wish to take course work before spring semester consideration of their application for classified status, may be admitted to the university in the unclassified postbaccalaureate status. Unclassified postbaccalaureate students may enroll, when space is available, in selected graduate courses, with the instructor's approval.

Advancement to Candidacy

To be advanced to candidacy, a student must have:

1. Achieved classified status;
2. Secured a graduate advisor to supervise the course of study;
3. Completed, with the approval of the student's advisor, at least 12 semester units of graduate course work at this university, and achieved a minimum grade point average of 3.0 ("B") in those courses;
4. Satisfied the Writing Requirement for Graduate Candidacy (WRGC).
5. Filed an approved Advancement to Candidacy form which must have the approval of the student's advisor, the department chair or chair of the graduate program committee and the Dean of Graduate Studies.

Requirements for Graduation

1. Completed a minimum of 45 semester units of approved graduate level work with at least 32 units completed in residence at this university with a grade point average of a least 3.0 ("B") and grades of "C" (2.0) or better in all courses in the program.
2. Completed and defended an original master's thesis (a three-course sequence, PSYC 6951 twice in a sequence, and PSYC 6974.
3. The Graduate Writing Assessment Requirement is met through successful completion of PSYC 6974.

Classified graduate students in the Master of Science Industrial and Organizational Psychology program must complete their degree requirements within seven years of admission to the program. Students with classified status who fail to register for at least one course in the Psychology M.S. program each semester will automatically be declassified.

Degree Requirements (45 units)

(Program code: IOPY)

PSYC 5581	Current Professional Issues in Industrial-Organizational Psychology	1
PSYC 6601	Job Analysis, Performance Management, & Compensation	3
PSYC 6602	Organizational Development, Training, and Work Groups	3
PSYC 6603	Talent Acquisition and Legal Issues	3
PSYC 6604	Motivation and Leadership	3
PSYC 6640	Advanced Methods in Psychological Research	3
PSYC 6641	Analysis of Variance	4
PSYC 6642	Regression and Nonparametric Statistics	4
PSYC 6644	Applied Psychological Measurement	3
PSYC 6675	Practicum in Applied Psychology	3
PSYC 6893	Externship in Applied Psychology	3
Three units chosen from:		3
PSYC 5582	Diversity, Work, and Family	
PSYC 5583	Occupational Health Psychology	
PSYC 5584	Work Across the Lifespan	
Three units chosen from:		3
PSYC 6643	Multivariate Methods	
PSYC 6650	Advanced Cognitive Psychology	
PSYC 6652	Advanced Learning and Motivation	
PSYC 6654	Advanced Life-Span Developmental Psychology	
PSYC 6656	Advanced Biological Psychology	
PSYC 6658	Advanced Social Psychology	
Culminating Experience (6)		**6**
Total Units		**45**

Culminating Experience (6 units)

The culminating experience for the program is a research thesis, completed under the supervision of a faculty member, and consists of the following courses:

PSYC 6951	Advanced Independent Study (taken twice for a total of 2 units)	2
PSYC 6974	Thesis	4
Total Units		**6**

Bachelor of Arts in Psychology

In declaring a Psychology major, students have three options. They can select **General Psychology**, **Biological Psychology**, or **Industrial-Organizational Psychology**.

Requirements to enter the B.A. in Psychology

GE Category 1A: English Composition (3)		**3**
GE Category 2: Mathematical Concepts and Quantitive Reasoning (3)		**3**
Psychology Courses (15)		
PSYC 1100	Introduction to Psychology	3
PSYC 1101	Psychology as a Major	2
PSYC 2210	Psychological Statistics	4
PSYC 2220	Brain and Behavior	3
PSYC 2211	Introduction to Psychological Research	3
Total Units		**21**

A student is permitted three attempts to successfully complete each of the required courses in the major. If a student does not successfully complete a required course after three attempts, the student must change majors.

Students are encouraged to complete PSYC 1101 early in the curriculum. Students should complete PSYC 3311 by the end of their junior year.

Degree Requirements (49-50 units)

Total units required for graduation: 120

Required Courses for the Psychology B.A. (25-26)		
PSYC 1100	Introduction to Psychology	3
PSYC 1101	Psychology as a Major	2
PSYC 2210	Psychological Statistics	4
PSYC 2211	Introduction to Psychological Research	3
PSYC 2220	Brain and Behavior	3
PSYC 3311	Research Methods in Psychology	4
Three units chosen from:		3
PSYC 3382	Social Psychology	
PSYC 3390	Abnormal Psychology	
Advanced Culminating Experience (3-4 units) (includes Writing Designation) *		3-4
Concentration (24)		
Students must complete the requirements of one of the concentrations listed below.		24
Total Units		**49-50**

* Students select a course in consultation with a Psychology Department advisor

Students enrolling in the Psychology Honors Program during their senior year will take PSYC 5597 and PSYC 5598 in addition to the above requirements.

Concentrations (24 units)

General Psychology Concentration (24 units)

(Program Code: PSYC)

Through regular advising and the guidance of our faculty, students who opt for the **General Psychology** degree will be able to create an individualized plan including an informal concentration in any of a number of subareas within psychology such as clinical/counseling psychology, social psychology, developmental psychology, cognitive psychology, and experimental psychology.

PSYC 2201	Developmental Psychology	3
or PSYC 3326	Developmental Psychobiology	
PSYC 3360	Cognitive Psychology	3
or PSYC 3364	Perception	
Three units chosen from:		3
PSYC 3359	Evolutionary Psychology	
PSYC 3362	Learning and Motivation	
PSYC 3363	Biological Psychology	
Six units chosen from:		6
PSYC 3355	Industrial Psychology	
PSYC 3357	History and Systems of Psychology	
PSYC 3377	Tests and Measurements	
PSYC 3386	Introduction to Psychotherapy	
Upper Division Psychology Electives		9
Students intending to apply to doctoral programs in psychology are encouraged to take the following courses: PSYC 3357, PSYC 3377, PSYC 4410, PSYC 5953.		
Total Units		**24**

For the General Psychology Concentration, the Advanced Culminating Experience requirement is typically met by choosing a course from either the Advanced Experimental Psychology Option (PSYC 4431, PSYC 4432, PSYC 4433, PSYC 4434, PSYC 4435, PSYC 4436, PSYC 4437, or PSYC 4438) or the Advanced Seminar in Psychology Option (PSYC 4421, PSYC 4422, PSYC 4423, PSYC 4424, PSYC 4425, PSYC 4426, PSYC 4427, or PSYC 4428).

Biological Psychology Concentration (24 units)

(Program Code: PBIO)

Biological psychology represents a course of study focusing on the neurological and physiological bases of human behavior. You will study such things as the brain processes implicated in various psychological disorders, the neurological basis of addiction, and the specific ways in which psychotropic drugs influence the brain and behavior.

PSYC 3363	Biological Psychology	3
PSYC 4442	Behavioral Neuroscience	3
Three units chosen from:		3
PSYC 3355	Industrial Psychology	
PSYC 3385	Personality Psychology	
PSYC 2201	Developmental Psychology	
Three units chosen from:		3
PSYC 3359	Evolutionary Psychology	
PSYC 3360	Cognitive Psychology	
PSYC 3364	Perception	
Foundations of Biopsychology		
Six units chosen from:		6
PSYC 3362	Learning and Motivation	
PSYC 3365	Cognitive Neuroscience	
PSYC 5538	Introduction to Psychopharmacology	
Upper-division Biopsychology Electives		
Six units chosen from:		6
PSYC 3318	Health Psychology	
PSYC 3326	Developmental Psychobiology	
PSYC 3333	Drugs and Behavior	
PSYC 3339	Methods in Human Neuroscience	
PSYC 3357	History and Systems of Psychology	
PSYC 3359	Evolutionary Psychology	
PSYC 3362	Learning and Motivation	
PSYC 3365	Cognitive Neuroscience	
PSYC 3367	Neuropsychiatric Disorders	
PSYC 4410	Advanced Psychological Statistics	
PSYC 4423	Advanced Seminar in Psychology: Biological	

PSYC 4426	Advanced Seminar in Psychology: Learning and Motivation	
PSYC 5538	Introduction to Psychopharmacology	
PSYC 5539	Current Methods in Neuroscience	
PSYC 5562	Neural Mechanisms of Learning and Memory	
PSYC 5567	Neural Substrates of Psychiatric Disorders	
Total Units		**24**

For the Biological Psychology concentration, the Advanced Culminating Experience requirement is typically satisfied by taking either PSYC 4433 (Experimental Psychology: Biological) or PSYC 4436 (Experimental Psychology: Learning and Motivation).

Students intending to apply to doctoral programs in biopsychology are encouraged to take appropriate course work in biology, chemistry, and physics.

Industrial and Organizational Psychology Concentration (24 units)

(Program Code: PYIO)

Industrial and Organizational Psychology concerns the psychology of the workplace. IO psychologists are concerned with personnel selection, work and life balance, understanding and improving relations between employer and employee, program evaluation, employee mental health, and many other issues regarding the interface between psychology and business.

PSYC 3354	Organizational Psychology	3
PSYC 3355	Industrial Psychology	3
PSYC 3377	Tests and Measurements	3
Six units chosen from:		6
PSYC 3360	Cognitive Psychology	
PSYC 3362	Learning and Motivation	
PSYC 3363	Biological Psychology	
PSYC 3364	Perception	
Three units chosen from:		3
PSYC 2201	Developmental Psychology	
PSYC 3357	History and Systems of Psychology	
PSYC 3385	Personality Psychology	
A minimum of six units chosen from:		6
PSYC 3340	Stereotyping, Prejudice and Discrimination	
PSYC 4410	Advanced Psychological Statistics	
PSYC 5582	Diversity, Work, and Family	
PSYC 5583	Occupational Health Psychology	
PSYC 5584	Work Across the Lifespan	
PSYC 5575	Internship	
PSYC 5953	Independent Study	
Total Units		**24**

For the Industrial-Organizational Psychology concentration, the Advanced Culminating Experience requirement is typically satisfied by taking either PSYC 4428 (Advanced Seminar in IO Psychology) or PSYC 4438 (Experimental Psychology: Industrial and Organizational).

Minor in Psychology

A minor in Psychology is an effective complement to a variety of majors including Criminal Justice, Communication Studies, Management, Marketing, Social Work, and Health Science.

Minor Requirements (21 units)

PSYC 1100	Introduction to Psychology	3
PSYC 2220	Brain and Behavior	3
PSYC 2211	Introduction to Psychological Research	3
PSYC 3382	Social Psychology	3
or PSYC 3390	Abnormal Psychology	
PSYC 2201	Developmental Psychology	3
or PSYC 3326	Developmental Psychobiology	
Six units of upper-division Psychology Electives		6
Total Units		**21**

Department of Sociology

Sociology

Social and Behavioral Sciences Building, Room 327
(909) 537-5541 Department of Sociology website (https://www.csusb.edu/sociology/)

The Sociology major offers students a rigorous program of study to examine social phenomena, develop theoretical and methodological proficiencies, and apply a critical understanding of complex social issues and processes. The curriculum is designed to provide students with a solid sociological foundation to analyze social structures and contribute to transforming and diversifying our social world.

We offer a Bachelor of Arts in Sociology, a Sociology minor, and a Certificate in Gerontology. Our faculty also teach in interdisciplinary programs including Gender & Sexuality Studies, Ethnic Studies, Social Sciences, and the Master of Arts in Social Sciences & Globalization. Our curriculum is designed to prepare students to examine and analyze social phenomena from a sociological perspective. Through our student-centered and applied coursework, students develop critical analysis skills, theoretical and methodological proficiencies, research experience, and internship/service-learning opportunities that prepare them for graduate degrees and professional careers.

As an adjunct to the curriculum, there are two student organizations for sociology majors. The Sociology Club has a varied program of social, community service, and academically-oriented activities. In addition to general sociology majors, students in human services and students in social services actively participate in the club. A chapter of Alpha Kappa Delta, the sociology honor society, is open to junior sociology majors with a 3.5-grade point average and to seniors and graduate students with a 3.0-grade point average.

Current Faculty

Jurgita Abromaviciute, Associate Professor of Sociology
B.A. 2003, Vilnius University, Lithuania
M.A. 2007, East Carolina University
Ph.D. 2018, University of Arizona

Annika Anderson, Professor of Sociology, Chair
B.A. 2006, Pennsylvania State University
M.A. 2010, Washington State University
Ph.D. 2015, Washington State University

Megan Carroll, Associate Professor of Sociology
B.A. 2008, University of North Texas
M.A. 2012, University of Southern California
Ph.D. 2019, University of Southern California

James V. Fenelon, Professor of Sociology
B.A. 1978, Loyola Marymount University
M.A. 1981, M.A. 1983, School of International Training
Ph.D. 1995, Northwestern University

Ethel Mickey, Assistant Professor of Sociology
B.A. 2012, B.A. 2012, Vanderbilt University
M.A. 2014, Ph.D. 2018 Northeastern University, Massachusetts

Jose Munoz, Professor of Sociology, Interim Chair, Interim Chair
B.A. 1995, University of California, Irvine
M.A. 1998, California State University, Dominguez Hills
Ph.D. 2008, State University of New York, Stony Brook

Jamie O'Quinn, Assistant Professor of Sociology
B.A. 2013, University of California, Santa Cruz
M.A. 2016, San Francisco State University
Ph.D. 2022, University of Texas, Austin

Rosario Rizzo Lara, Assistant Professor of Sociology
B.S. 2007, Universidad Veracruzana
M.A. 2012, University of Texas, Austin
Ph.D. 2023, University of Kent, United Kingdom

Karen Robinson, Associate Professor of Sociology
B.A. 1998, University of California, Los Angeles
Ph.D. 2011, University of California, Irvine

Paloma Villegas, Associate Professor of Sociology
B.A. 2004, University of California, Berkeley
M.A. 2006, San Francisco State University
Ph.D. 2012, University of Toronto

Eric Vogelsang, Professor of Sociology
B.S. 1996, Syracuse University
M.S. 2011, Ph.D. 2015, University of Wisconsin, Madison

Clare Weber, Professor of Sociology
Ph.D. 2001, University of California, Irvine

King-To Yeung, Associate Professor of Sociology
B.A. 1996, University of Guam
M.A. 1998, Texas Tech University
Ph.D. 2007, Rutgers University

Emeriti

Zeng-yin Chen

David L. Decker

John Heeren

Harold A. Jambor

Patricia Little

Dale Lund

Marcia Marx

Thomas Meisenhelder

Randi L. Miller

Bernhardt L. Mortensen

Clifford T. Paynton

Mary Texeira

Elsa O. Valdez

Special Appointment

Rafik Mohamad, Professor of Sociology, Provost
B.S. 1992, George Washington University
M.A. 1996, University of California, Irvine
Ph.D. 2002, University of California, Irvine

Undergraduate Degrees

Bachelor of Arts

Sociology (p. 363)
with concentrations in:

- General Sociology
- Social Service and Community Research

Minor

Sociology (p. 363)

Certificate Program

Gerontology (p. 365)

Bachelor of Arts in Sociology

The sociology major offers students a rigorous program of study to examine social phenomena, develop theoretical and methodological proficiencies, and apply a critical understanding of complex social issues and processes.

The curriculum is designed to provide students with a solid sociological foundation in understanding social institutions, social inequality and diversity, and social processes and change as well as opportunities to practice sociology through community engagement and internships.

The requirements for the bachelor's degree in Sociology prepare students to pursue graduate studies in sociology, social work, counseling, and other professional programs in addition to careers in social services, education, criminal justice, law, health care, and non-profit organizations.

Degree Requirements (38 units)

Total units required for graduation: 120 units

(Program Code: SOC)

Foundation (14)		
SOC 1000	Introduction to Sociology	3
SOC 3011	Qualitative Analysis & Field Research	4
SOC 3070	Quantitative Analysis & Survey Research	4
SOC 3110	Sociological Theory	3
Core Electives (12)		
Complete 3 units from each of the four core areas:		
Core A: Social Institutions		3
SOC 3400	Sociology of Families	
SOC 3410	The African American Family	
SOC 3420	The Latino Family	
SOC 3550	Medical Sociology	
SOC 3800	Sociology of Religion	
SOC 3900	Sociology of Education	
SOC 4220	Sociology of Work	
SOC 4320	Political Sociology	
Core B: Social Inequality and Diversity		3
SOC 3360	Black Women and Feminism	
SOC 3430	Sociology of Violence	
SOC 4100	Sociology of Race and Ethnicity	
SOC 4400	Social Inequality	
SOC 4410	Black Americans in Contemporary Society	
SOC 4420	The Latino Experience in the U.S.	
SOC 4440	Sociology of Sex and Gender	
SOC 4530	Citizenship, Status, and Inequality	
Core C: Social Processes and Change		3
SOC 3300	Aging and The Lifecourse	
SOC 3390	Socialization	
SOC 3500	Criminology	
SOC 3540	Deviant Behavior	
SOC 3560	Sociology of Mental Health	
SOC 3600	Social Psychology	
SOC 3700	Sociology of Globalization	
SOC 3750	Population and Society	
SOC 4200	Social Movements	
SOC 4240	Social Networks	
SOC 4300	Urban Sociology	
SOC 4360	Group Dynamics	
SOC 4510	Sociology of Migration	
SOC 4520	Social Change and Innovation	
Core D: Community Engagement and Applied Sociology		3
SOC 3020	Introduction to Community-Based Research	
SOC 4180	Social Welfare in the U.S.	
SOC 4340	Community Organization	
SOC 4840	Social Casework	
SOC 5500	Applied Sociological Research	
SOC 5753	Internship and Practicum	
Senior Capstone (3)		
Choose 3 units from the list below:		3
SOC 5250	Indian Nations and Native America	
SOC 5300	Global Aging	
SOC 5400	Sociology of Higher Education	
SOC 5440	LGBTQ Families	
SOC 5450	Indigenous Peoples	
SOC 5490	Crime, Desistance, and Reentry	
SOC 5510	Borders, Knowledges, and Identities	
SOC 5600	Social Determinants of Health	
SOC 5900	Seminar in Sociology	
SOC 5971	Honors Seminar 1	
SOC 5972	Honors Seminar 2	
Upper-division Electives (9)		
Complete additional 9 units of upper-division courses in Sociology		9
Total Units		**38**

Minor in Sociology

The sociology minor program offers students a program of study to examine social phenomenon, develop theoretical and methodological proficiencies, and apply a critical understanding of complex social issues. The curriculum is designed to provide students with a solid

sociological foundation to analyze social structures and contribute to transforming and diversifying our social world.

Requirements for a minor in Sociology (18 Units)

Foundation (3)		
SOC 1000	Introduction to Sociology	3
Upper-division Electives (15)		
Fifteen units chosen from:		15
SOC 3010	Qualitative Analysis & Field Research	
SOC 3020	Introduction to Community-Based Research	
SOC 3070	Quantitative Analysis & Survey Research	
SOC 3110	Sociological Theory	
SOC 3300	Aging and The Lifecourse	
SOC 3360	Black Women and Feminism	
SOC 3390	Socialization	
SOC 3400	Sociology of Families	
SOC 3410	The African American Family	
SOC 3420	The Latino Family	
SOC 3430	Sociology of Violence	
SOC 3440	LGBTQ Families	
SOC 3500	Criminology	
SOC 3540	Deviant Behavior	
SOC 3550	Medical Sociology	
SOC 3560	Sociology of Mental Health	
SOC 3600	Social Psychology	
SOC 3800	Sociology of Religion	
SOC 4100	Sociology of Race and Ethnicity	
SOC 4180	Social Welfare in the U.S.	
SOC 4200	Social Movements	
SOC 4220	Sociology of Work	
SOC 4240	Social Networks	
SOC 4340	Community Organization	
SOC 4360	Group Dynamics	
SOC 4400	Social Inequality	
SOC 4410	Black Americans in Contemporary Society	
SOC 4420	The Latino Experience in the U.S.	
SOC 4440	Sociology of Sex and Gender	
SOC 4510	Sociology of Migration	
SOC 4530	Citizenship, Status, and Inequality	
SOC 4840	Social Casework	
SOC 5250	Indian Nations and Native America	
SOC 5400	Sociology of Higher Education	
SOC 5450	Indigenous Peoples	
SOC 5500	Applied Sociological Research	
SOC 5510	Borders, Knowledges, and Identities	
SOC 5600	Social Determinants of Health	
Total Units		**18**

Certificate in Gerontology

Between 2015 and 2060, the number of older adults (aged 65-plus) in the United States is projected to rise from 50 million to 95 million; and will soon represent more than one out of every five Americans. This remarkable and unprecedented societal change will create numerous and unique opportunities for those interested in occupations related to the field of aging.

The *Certificate in Gerontology* at CSUSB is designed for undergraduate students from a variety of disciplines, and with a variety of career goals. Although traditionally completed by students in Sociology, Psychology, Health Science, and Kinesiology; this certificate is open to all majors. Successful completion of the certificate will not only impart competency in gerontology, but it will also expose the student to a range of perspectives in this emerging interdisciplinary field.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (18 units)

Core Requirements (9)		
Nine units chosen from:		9
HSCI 4023	Health and Wellness of Older Adults	
SOC 3300	Aging and The Lifecourse	
PSYC 3329	Psychology of Adulthood and Aging	
KINE 3600	Physical Activity and Aging	
Electives (9)		
Nine units chosen from:		9
HSCI 3060	Medical Care Organizations	
HSCI 3067	Human Diseases and Disorders	
HSCI 3204	Public Health Nutrition	
or HSCI 4680	Public Health Nutrition in Dietetics	
HSCI 3556	Housing, Institutions, and Land Use	
HSCI 3602	Lifecycle Nutrition and Assessment	
HSCI 4550	Health Aspects of Death and Dying	
HSCI 5753	Field Experience in Public Health (with Gerontology component)	
PSYC 3303	Parenting and Family Relations	
PSYC 3318	Health Psychology	
PSYC 3333	Drugs and Behavior	
PSYC 3345	Cross-Cultural Psychology	
PSYC 3372	Psychology of Death and Dying	
PSYC 5540	Work, Retirement, and Leisure	
PSYC 5575	Internship (with Gerontology component)	
SOC 3390	Socialization	
SOC 3400	Sociology of Families	
SOC 3430	Sociology of Violence	
SOC 3550	Medical Sociology	
SOC 4180	Social Welfare in the U.S.	
SOC 5300	Global Aging	
SOC 5751	Internship and Practicum (with Gerontology component)	
KINE 3100	Introduction to Adapted Physical Activity	
KINE 3400	Psychology and Sociology of Human Movement	
KINE 3810	Sport and Exercise Nutrition	
KINE 4400	Exercise Testing and Prescription	
KINE 4700	Clinical Exercise Physiology	
Total Units		**18**

School of Criminology and Criminal Justice

Social and Behavioral Sciences Building, Room 209
(909) 537-5506 School of Criminology and Criminal Justice website (http://criminaljustice.csusb.edu/)

A system of criminal justice must meet the needs of each citizen as well as the needs of complex social, economic, and governmental institutions. The Bachelor of Arts degree program in criminal justice was developed with these needs in mind. Our curriculum focuses on the history and functions of the criminal justice system, research design, policy implementation, theoretical and environmental causes of crime, and practical skills for those interested in a career in criminal justice and related fields.

In addition, the program is designed to provide students with an appropriate academic background for continuing their graduate studies in criminal justice, criminology, or other areas such as law.

The criminal justice major is an interdisciplinary program with enough flexibility to permit students to pursue their own interests. For example, students wishing to emphasize law enforcement may select appropriate courses within the major. Students directed toward probation, parole or corrections work are advised to select courses accordingly.

Crime Analysis is a rapidly growing field offering exciting employment opportunities. Increasingly, criminal justice agencies-- at the local and state level-- are hiring people with advanced analytic and technological capabilities. The drive to engage in more proactive, evidence-based policing founded upon sound analysis is a national trend that is unlikely to slow. Courses are organized into several tracks allowing students to research-based instruction, students are offered a range of concentration areas, including cyber security, geographic information systems, and homeland security.

Departmental Honors

Undergraduate students majoring in Criminal Justice are eligible to receive honors in criminal justice at graduation if the following conditions are met:

- At least one-half of the course work required by the major is completed at CSUSB;
- At least 3.5 grade point average in the major;
- An overall undergraduate grade point average of 3.0 (“B”)

Students interested in receiving this recognition must initiate the process by completing an application with the School of Criminology and Criminal Justice Administrative Support Coordinator. Applications for honors candidacy must be submitted prior to the Census date for the term in which the student is graduating. Approval of candidacy rests with the school.

Current Faculty

Gisela Bichler, Professor of Criminology and Criminal Justice
B.A. 1994, Simon Frazier University
M.A. 1996, Rutgers University
Ph.D. 2000, Rutgers University

Christine N. Famega, Professor of Criminology and Criminal Justice, Director, Director
B.A. 1993, University of Manitoba
M.A. 1996, Minot State University
Ph.D. 2003, University of Cincinnati

Shuryo Fujita, Associate Professor of Criminology and Criminal Justice
B.S. 2000, Southeast Missouri State University
M.A. 2003, California State University, San Bernardino
Ph.D. 2011, Rutgers-State University of New Jersey

Andrea Giuffre, Assistant Professor of Criminology and Criminal Justice
B.A. University of Washington
M.A. Seattle University
Ph.D. 2023, University of Missouri, St. Louis

Janine Kremling, Professor of Criminology and Criminal Justice
B.A. 2001, University of Leipzig
M.A. 2004, University of South Florida
Ph.D. 2010, University of South Florida

Nerea Marteache, Professor of Criminology and Criminal Justice
B.A. 2002, ESADE University of Spain
B.A. 2008, University of Barcelona
M.A. 2006, University of Barcelona
M.A. 2010, Rutgers School of Criminal Justice
Ph.D. 2013, Rutgers School of Criminal Justice

Alexis Norris, Associate Professor of Criminology and Criminal Justice
B.A. 2005, Hampton University
M.A. 2008, Michigan State University, Lansing
Ph.D. 2014, Michigan State University, Lansing

Zachary Powell, Associate Professor of Criminology and Criminal Justice
B.S. 2012, University of North Texas
M.S. 2015, The University of Texas at Dallas
Ph.D. 2018, The University of Texas at Dallas

John Reitzel, Associate Professor of Criminology and Criminal Justice
B.A. 2001, SUNY, Cortland
M.A. 2003, Ph.D. 2006, University of Florida, Gainsville

Andrea Schoepfer, Professor of Criminology and Criminal Justice, Associate Dean
B.A. 2001, University of Florida
M.A. 2004, University of Florida
Ph.D. 2007, University of Florida

Reveka Shteynberg, Assistant Professor of Criminology and Criminal Justice
B.A. University of California, Irvine
M.A. 2012, Ph.D. 2020, University at Albany, SUNY

Douglas Weiss, Professor of Criminology and Criminal Justice
B.S. 2002, Illinois Institute of Technology
M.A. 2008, University of Southern Carolina
Ph.D. 2014, University of Maryland

Sishi Wu, Assistant Professor of Criminology and Criminal Justice
L.L.B. 2015, Xiamen University
L.L.M. 2018, Beijing Normal University
Ph.D. 2023, University at Albany, SUNY

Emeriti

Frances Coles

Larry K. Gaines

Brian Levin

Deborah A. Parsons

Pamela J. Schram

Dale Sechrest

David Shichor

Franklin P. Williams III

Undergraduate Degrees

Bachelor of Arts

Criminal Justice (p. 368)

Bachelor of Science

Intelligence and Crime Analysis (p. 369)
with concentrations in
- Geographic Information Systems
- Cyber Security
- Homeland Security

Graduate Degrees

Master of Arts

Criminal Justice (p. 367)

Minor

Criminal Justice (p. 370)

Master of Arts in Criminal Justice

The Master of Arts in Criminal Justice is designed to serve the growing number of individuals in the criminal justice system who desire postbaccalaureate education, as well as those in more traditional public and private employment who may wish to acquire further education in criminal justice.

The degree program offers two options for the culminating experience. 1) The thesis option is designed for students who intend to pursue graduate studies beyond the M.A. level and those students who have special research interests in the criminal justice system. 2) The comprehensive examination option is for those with administrative and management goals.

The program can serve a variety of student interests. It has been designed with a limited prerequisite requirement to enable students with baccalaureate degrees in related fields such as psychology, administration, anthropology, sociology or social sciences to enroll along with students with undergraduate degrees in criminal justice.

Admission to the Program

The Graduate Committee cannot act on applications until they have been reviewed by the Office of Graduate Admissions, and have met university admissions requirements. Check the Criminal Justice Department website for application deadlines. Applications will be evaluated on a competitive basis and enrollment is limited.

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A baccalaureate degree from an accredited college or university;
2. Completion of an undergraduate major in criminal justice, criminology, sociology, or in an allied field such as psychology, administration, or another social science, or recommendation for admission to the program by the Graduate Admissions Committee. Competence in the following prerequisite areas: criminological theory, law enforcement, institutional and community corrections, research methods and statistics is expected;
3. A minimum undergraduate grade point average of at least 3.0 overall and 3.0 ("B") in the major;
4. Submission of any available GRE scores, in the event the applicant feels that such scores would enhance their chances of admission. Submission of such scores is not mandatory;
5. Submission to the criminal justice program of three letters of recommendation from individuals who are familiar with the student's academic work and potential to complete the program successfully. Letters must come directly from the writer or be included in a placement file, and will be evaluated by criminal justice faculty members.
6. A brief statement of purpose describing the applicant's preparation for graduate study & professional goals.

Advancement to Candidacy

To be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed all required course work except Thesis or Comprehensive Examination;
3. Completed all course work taken before advancement to candidacy with a minimum grade point average of 3.0 ("B"). Completed all course work with no more than one course with a grade as low as "C." If a second such grade is earned, the student will be dismissed from the program, but may petition the graduate admission committee for readmission. After reviewing the petition, the committee may allow readmission under such conditions as it deems appropriate. A third grade of "C" or lower will result in permanent dismissal from the program with no recourse to petition;
4. For the thesis culminating experience: made arrangements for three faculty members, in consultation with the Criminal Justice Graduate Coordinator, to serve as the student's graduate advisory committee, with one member designated to chair the committee;
5. Completed a formal Program Plan of graduate studies with the Criminal Justice Graduate Coordinator.This should be done after the completion of 15 units of approved graduate level course work;
6. Petitioned the graduate committee, during the quarter in which all course work is to be completed, for formal advancement.

The graduate committee will then consider the student's scholastic performance and other circumstances and either grant advancement to candidacy, specify necessary preparatory studies, or recommend other courses of action.

Requirements for Graduation

1. A minimum of 34 units of acceptable graduate level work, with at least 24 semester units completed in residence at this university;
2. Completion of course work and an acceptable thesis and final oral defense,
   or
   Completion of course work and registration in and completion of the comprehensive examination with a grade of credit;
3. Any additional general requirements not cited above and listed in Graduate Degree and Program Requirements (p. 74);
4. The graduation writing requirement is met upon successful completion of the thesis or comprehensive examination.

Degree Requirements (34 units)

(Program Code: CJUM)

CJUS 6604	Advanced Techniques of Basic and Applied Research in Criminal Justice	3
CJUS 6605	Proseminar in Criminal Justice	3
CJUS 6606	Statistical Analysis in Criminal Justice	3
CJUS 6607	Applying Criminological Theory to Criminal Justice	3
CJUS 6631	Seminar in Corrections	3
or CJUS 6632	Seminar in Policing	
CJUS 6641	Planning and Evaluation in Criminal Justice	3
CJUS 6686	Graduate Review in Criminal Justice	1
Nine units of electives (with no more than 3 units at the 5000-level) to be chosen in consultation with an advisor from:		9
CJUS 5550	Intelligence & Crime Analysis 2	
CJUS 5554	Terrorism	
CJUS 5555	Homeland Security	
CJUS 5556	Transnational Organized Crime	

CJUS 5570	Crime in Public Spaces	
CJUS 5580	Juvenile Justice	
CJUS 5585	Life Course Criminality	
CJUS 6608	Crime, Criminals and Victims	
CJUS 6629	Race, Class, & Gender in the Criminal Justice System	
CJUS 6630	Legal Issues in Criminal Justice	
CJUS 6631	Seminar in Corrections	
CJUS 6632	Seminar in Policing	
CJUS 6640	Justice Policy and Administration	
CJUS 6653	Directed Area Studies in Criminal Justice	
Other courses may be allowed with consent of department.		
Culminating Experience (6)		**6**
Note: Students selecting the Comprehensive Exam Culminating Experience must take six additional elective units with no more than three additional units at the 5000-level		
Total Units		**34**

Culminating Experience (6 units)

Thesis Option (6)

CJUS 6971	Thesis I	3
CJUS 6972	Thesis II	3
Total Units		**6**

Comprehensive Exam Option (6 units)

Six units of electives (with no more than three additional units at the 5000-level) to be chosen in consultation with an advisor		6
CJUS 6980	Comprehensive Examination	0
Total Units		**6**

Bachelor of Arts in Criminal Justice

Offered (http://cel.csusb.edu/)as a completely online program only through the **College of Extended and Global Education**

Required General Education Courses

Completion of the following:

English Composition (3)		**3**
Oral Communication (3)		
COMM 1006	Oral Communication	3
or HON 1300	Communicating Orally	
Critical Thinking (3)		
Choose one of the following:		3
HON 1200	Thinking Critically	
PSYC 1105	Critical Thinking in Everyday Life	
SOC 1800	Critical Thinking about Social Issues	
Mathematical Concepts and Quantitative Reasoning (3-4)		
MATH 1201	Introduction to Statistical Thinking	3-4
or MATH 1204	Introduction to Statistical Thinking with Support Lab	
Total Units		**12-13**

Students are encouraged to take the above classes prior to taking the Criminal Justice classes below.

Degree Requirements (45 units)

Total units required for graduation: 120

(Program Code: CJUS)

Lower-Division Requirements (6)		
(Prerequisites for upper-division courses)		
CJUS 1101	Introduction to the Criminal Justice System *	3
CJUS 1102	Criminal Law *	3
Upper-Division Requirements (21)		
SSCI 3060	Expository Writing for the Social Sciences	3
CJUS 3320	Theories of Crime and Delinquency +	3
CJUS 3311	Research Methods in Criminal Justice	3
CJUS 3312	Statistics in Criminal Justice	3
CJUS 3330	Correctional Theory and Institutions	3
CJUS 3340	Police and Police Systems	3
CJUS 5598	Integrative Studies in Criminal Justice	3
A student may enroll in a required criminal justice class three times. If a student does not successfully complete the course after three enrollments, the student must change majors. Students may appeal to the department academic standards committee.		
Electives (18)		
Note: Students transferring from community colleges may substitute a maximum of 9 lower-division units selected from administration of justice courses toward the electives category.		
Eighteen units chosen from:		18
CJUS 1106	Criminal Investigations	
CJUS 3354	Victimology	
CJUS 3370	Law and the Courts	
CJUS 3470	Crime Prevention	
CJUS 4430	Correctional Administration	
CJUS 4431	Community Corrections	
CJUS 4435	Correctional Counseling	
CJUS 4440	Police Administration	
CJUS 4441	Community Policing	
CJUS 4451	Women and Crime	
CJUS 4452	White Collar Crime	
CJUS 4453	Gangs	
CJUS 4460	Drugs and the Criminal Justice System	
CJUS 4462	Domestic Violence	
CJUS 4465	Hate Crime, Law, and Policy	
CJUS 4466	Justice and the Media	
CJUS 5504	Criminal Procedure	
CJUS 5506	Wildlife Crime	

CJUS 5508	Preventing Crime in Transportation Systems	
CJUS 5550	Intelligence & Crime Analysis 2	
CJUS 5554	Terrorism	
CJUS 5555	Homeland Security	
CJUS 5556	Transnational Organized Crime	
CJUS 5560	Crime Pattern Detection	
CJUS 5570	Crime in Public Spaces	
CJUS 5571	Social Network Analysis	
CJUS 5580	Juvenile Justice	
CJUS 5585	Life Course Criminality	
CJUS 5753	Internship in Criminal Justice	
CJUS 5901, 5902, 5903	Topics in Criminal Justice	
CJUS 5951, 5952, 5953	Independent Study	
CJUS 5597	Senior Honors Project	
Total Units		**45**

* The grades earned must not be lower than a "C" (2.0).
\+ Prerequisite for all other upper-division required courses. The grade earned must not be lower than a "C" (2.0).

Note: With consent of the School course substitution committee, six upper-division units in related fields may be substituted for six units of the electives requirement.

Bachelor of Science in Intelligence and Crime Analysis

Required General Education Courses

Completion of the following:

Oral Communication (3)		**3**
One (1) of the following:		
COMM 1006	Oral Communication	
HON 1300	Communicating Orally	
English Composition (3)		**3**
Critical Thinking (3)		**3**
One (1) of the following:		
HON 1200	Thinking Critically	
PSYC 1105	Critical Thinking in Everyday Life	
SOC 1800	Critical Thinking about Social Issues	
Mathematical Concepts & Quantitative Reasoning (3)		**3**
One (1) of the following:		
MATH 1201	Introduction to Statistical Thinking (One (1) of the following:)	
MATH 1204	Introduction to Statistical Thinking with Support Lab	
Total Units		**12**

The grade earned in each of the above courses must be no lower than a “C” (2.0).

Students are encouraged to take the above classes prior to taking the Criminal Justice classes below.

Degree Requirements (55 units)

Total units required for graduation: 120

Lower-Division Requirements (7)		
(Prerequisites for upper-division requirements)		
CJUS 1101	Introduction to the Criminal Justice System	3
CJUS 1102	Criminal Law	3
IST 1110	Introduction to Information Technology	1
The grades earned in CJUS 1101 and CJUS 1102 and IST 1110 must not be lower than a "C" (2.0).		
Upper-Division Requirements (30)		
SSCI 3060	Expository Writing for the Social Sciences	3
CJUS 3320	Theories of Crime and Delinquency	3
CJUS 3350	Intelligence & Crime Analysis 1	3
CJUS 3470	Crime Prevention	3
The grades earned in CJUS 3320, CJUS 3350, and CJUS 3470 must not be lower than a "C" (2.0).		
CJUS 3320 is a prerequisite for all upper division CJUS 3000 level courses. CJUS 3350 and CJUS 3470 are prerequisites for all CJUS 5000 level required courses.		
CJUS 3311	Research Methods in Criminal Justice	3
CJUS 3312	Statistics in Criminal Justice	3
CJUS 5550	Intelligence & Crime Analysis 2	3
CJUS 5560	Crime Pattern Detection	3
or CJUS 5571	Social Network Analysis	
CJUS 5570	Crime in Public Spaces	3
Three (3) units chosen from:		3
CJUS 5753	Internship in Criminal Justice	
CJUS 5951	Independent Study	
CJUS 5952	Independent Study	
CJUS 5953	Independent Study	
Note: Students may take additional elective CJUS courses if needed to reach 120 units to graduate.		
Concentration (18)		
Students must complete one of the concentrations listed below:		18
Total Units		**55**

A student may enroll in a required course three times. If a student does not successfully complete the course after three enrollments, the student must change majors. Students may appeal to the department academic standards committee.

Concentrations (18 units)

Geographic Information Systems (18 units)

Note: Concentrations may have additional requirements if you desire to obtain professional certificates. Consult the relevant department.

GEOG 2250	Introduction to Geographic Information Systems and Cartography	4

GEOG 3710	Advanced Geographic Information Systems	4
GEOG 3730	Geo-Spatial Analysis	3
GEOG 4880	Remote Sensing of the Environment	4
Minimum of 3 units chosen from:		3
GEOG 4850	Web GIS	
GEOG 4860	GIS and Socio-Economic Applications	
GEOG 4870	Environmental GIS	
GEOG 5753	Internship in Geography	
GEOG 5951	Independent Study	
Total Units		**18**

Cyber Security (18 units)

IST 2210	Introduction to Networking and Security	3
IST 2310	Applications Development	3
IST 2610	Cybersecurity	3
IST 3110	Management of Information Technology	3
IST 4620	Penetration Testing and Ethical Hacking	3
IST 5250	Incident Handling and Cyber Investigation	3
Total Units		**18**

Note: Students may take additional elective IST courses in the concentration if needed to reach 120 units to graduate.

Note: Students transferring from community colleges may substitute a maximum of six (6) lower-division units selected from computer science courses for the Cyber Security concentration.

Homeland Security (18 units)

CJUS 3340	Police and Police Systems	3
CJUS 5508	Preventing Crime in Transportation Systems	3
CJUS 5554	Terrorism	3
CJUS 5555	Homeland Security	3
CJUS 5556	Transnational Organized Crime	3
One (1) courses chosen from:		3
PSCI 2040	International Relations	
PSCI 3010	African Politics	
PSCI 3040	East European Political Systems	
PSCI 3050	East Asian Politics	
PSCI 3060	Latin American Politics	
PSCI 3080	Government and Politics of the Middle East	
PSCI 4000	International Politics	
PSCI 4840	National Security Policy	
PSCI 5400	Seminar in Comparative Politics	
PSCI 5200	War and Politics	
ACCT 2110	Introductory Accounting I	
ACCT 2120	Introductory Accounting II	
HIST 3590	United States History, Cold War Era	
HIST 5560	Foreign Relations of the United States	
HIST 5650	Immigration and Ethnic American History	
IST 2610	Cybersecurity	
Total Units		**18**

A student may enroll in a required course three times. If a student does not successfully complete the course after three enrollments, the student must change majors if the course is a required course. Students may appeal to the department academic standards committee.

Note: Students may take additional PSCI, ACCT, or HIST courses in the concentration if needed to 120 units to graduate.

Note: Students transferring from community colleges may substitute a maximum of six (6) lower-division units selected from administration of justice courses, political science or accounting courses towards the Homeland Security concentration.

Minor in Criminal Justice

Students from any major can earn a minor in Criminal Justice by completing 21 units of coursework.

Requirements for a minor in Criminal Justice (21 units)

CJUS 1101	Introduction to the Criminal Justice System	3
CJUS 1102	Criminal Law	3
CJUS 3320	Theories of Crime and Delinquency	3
CJUS 3330	Correctional Theory and Institutions	3
CJUS 3340	Police and Police Systems	3
CJUS 3370	Law and the Courts	3
Three units chosen from upper-division electives in Criminal Justice.		3
Total Units		**21**

School of Social Work

Accredited by the Council on Social Work Education

Social Work

Social and Behavioral Sciences Building, Room 423
(909) 537-5501 School of Social Work website (http://socialwork.csusb.edu/)

Mission Statements

BASW Mission

CSUSB's Bachelor of Arts in Social Work (BASW) program uses a generalist model to provide students with the knowledge, skills and values to promote human and community rights and well-being. Our program prepares students to challenge oppression in pursuit of social, racial, economic, and environmental justice. Our competency-based curriculum, guided by scientific inquiry, uses person-in-environment, advocacy, and anti-oppressive, strengths-based frameworks to effect social change. We are grounded in the profession's core values, including service, social justice, the dignity and worth of all people, the importance of human relationships, integrity, and competence.

The BASW program's San Bernardino and Palm Desert Campus options are located within two of the largest and most geographically and socio-economically diverse counties in the United States. We prepare students to serve culturally diverse individuals, families, groups, communities, and organizations across urban, suburban, and rural settings of the Inland Empire and Coachella Valley, and to engage ethically and inclusively in national and global practice.

MSW Mission

CSUSB's Master of Social Work (MSW) program prepares students to implement advanced generalist social work practice with individuals, families, groups, communities, organizations, and policies at all levels of practice: micro, mezzo, macro. Guided by scientific inquiry, our program's competency-based curriculum provides students with the knowledge, skills, and values required to become collaborative, research- informed practitioners, leaders, and change agents in interprofessional practice contexts.

Grounded in the core social work professional values of service, social justice, the dignity and worth of every person, the importance of human relationships, integrity, competence, and human rights, our MSW program equips students to challenge oppression and advocate for social, economic, racial, and environmental justice. Our MSW programs prepare students to disrupt systems of oppression, empower and advocate for historically disenfranchised and diverse communities, and engage in ethical and inclusive national and global practice. Our MSW program's San Bernardino and Palm Desert Campus options are located within two of the largest and most geographically and socio-economically diverse counties in the United States, while our Pathway Distance Education MSW Program has national reach. In all programs, we prepare students to serve culturally diverse individuals, families, groups, communities, and organizations across urban, suburban, and rural settings of their local areas.

Current Faculty

Rachel Allinson, Lecturer in Social Work
B.A. 1994, University of California, Los Angeles
M.S.W. 1996, Ohio State University

Jamal Appiah-kubi, Assistant Professor of Social Work
B.A. 2012, University of Ghana, Legon
M. Phil. 2015, University of Ghana, Legon
Ph.D. 2022, Ankara Yildirim Beyazit University, Türkiye

Nicole Arkadie, Assistant Professor of Social Work
B.S. 1999, California State University, Long Beach
M.S.W. 2007, California State University, Long Beach
Ph.D. 2007, Grand Canyon University

Armando Barragan Jr., Associate Professor of Social Work
B.A. 2006, University of California, Los Angeles
M.S.W. 2009, University of California, Berkeley
Ph.D. 2015, University of Southern California

Priyanjali Chakraborty, Assistant Professor of Social Work
B.A. 2014, St. Xavier's College, Kolkata
M.A. 2016, Tata Institute of Social Sciences, Hyderabad
Ph.D. 2025, University of Texas, Arlington

Shyra Harris, Lecturer in Social Work
B.A. 2009, California State University, San Bernardino
M.S.W. 2011, California State University, San Bernardino

Tavon Harris, Lecturer in Social Work
B.A. 2014, California State University, San Bernardino
M.S.W. 2016, California State University, San Bernardino

Dustin Hawkins, Lecturer in Social Work
B.A. 2003, Morehead State University
M.S.W. 2015, University of Louisville
D.S.W. 2024, University of Kentucky, Lexington

Rigaud Joseph, Associate Professor of Social Work
B.S. 2011, M.S.W. 2012, Florida Atlantic University
Ph.D. 2017, Florida International University

Deirdre Lanesskog, Associate Professor of Social Work, Director, Director
B.A. 1993, Ph.D. 2016, University of Illinois, Urbana-Champaign
M.P.A. 1995, George Washington University

Yawen Li, Professor of Social Work
B.A. 1999, Yunnan University
M.A. 2002, The University of Hong Kong
Ph.D. 2009, University of Southern California, Los Angeles

Caroline Lim, Associate Professor of Social Work
B.A. 2002, University of Michigan
M.S. 2004, Columbia University
Ph.D. 2017, University of Southern California

Emily Loveland, Assistant Professor of Social Work
B.A. 2011, Trinity College
M.S.W. 2016, University of Connecticut
Ph.D. 2024, University of Connecticut

Carolyn McAllister, Professor of Social Work
B.A. 1996, University of California, Davis
M.S.W. 1999, University of California, Los Angeles
Ph.D. 2003, Michigan State University

Frank McAlpin, Lecturer in Social Work
B.A. 2006, Marquette University, Milwaukee
M.S.W. 2010, Fordham University, New York

D.S.W. 2018, University of Pennsylvania

Natalie Reynaga, Lecturer in Social Work
B.A. 2013, California State University San Bernardino
M.S.W. 2015, California State University, San Bernardino

Andrew Nick Watson, Lecturer of Social Work
B.A.S.W. 1982, San Diego State University
M.S.W. 1984, San Diego State University

Keri West, Assistant Professor of Social Work
B.A. 2005, University of Toronto
M.S.W. 2015, University of Toronto
Ph.D. 2025, University of Toronto, Canada

Emeriti

Janet C. Chang

Thomas D. Davis

Morley Glicken

Melvin G. Hawkins

Marshall Jung

Nancy Mary

Rosemary McCaslin

Teresa Morris

Herbert P. Shon

Laurie Smith

Undergraduate Degree

Bachelor of Arts

Social Work (p. 378)

Applicants to Social Work major must meet all of the campus' specified supplementary admission criteria provided in the CSUSB Program Impaction (https://www.csusb.edu/admissions/impaction-information/) information.

Graduate Degree

Master

Advanced Standing (p. 372)

Social Work (p. 373)

Social Work and Public Administration Concurrent Degrees (p. 377)

Advanced Standing Master of Social Work

The School of Social Work offers courses leading to the Master of Social Work (MSW) degree and is designed to educate advanced generalist social work leaders with a program that equally emphasizes micro and macro practice. The micro practice sequence of courses prepares students to promote change and well-being with individuals, families, and groups. The macro practice sequence of courses prepares students to promote change and well-being with organizations and communities with an integrated focus on policy practice. The program is based upon the requirements of the Council on Social Work Education (CSWE), the national accrediting body for social work programs.

The MSW program is offered in three models: Model (1) offers four semesters of course work leading to the MSW degree within two academic years. This option is intended for students who can devote their time and attention to full-time, intensive study. Model (2) offers the same course work over three academic years. The MSW program includes 1080 hours (two or two and a half days) of supervised placement in an agency during the regular work week in the daytime over two academic years. Model (2) is too intensive for students who work 40 hours per week. It is necessary for these students to reduce their hours of employment. Model (3), an Advanced Standing option, is offered to students with a Bachelors degree in Social Work from a CSWE Accredited program within five years of starting this program. This program can be completed in three terms, starting with courses during the summer, then two additional semesters of course work. The Advanced Standing option includes 600 hours (two and a half days) of supervised placement in an agency during the regular work week in the daytime over one academic year.

Admission to the Advanced Standing MSW program is based on an examination of an admission application. In addition to the general requirements of the university, specific minimum requirements for admission consideration are:

1. A baccalaureate degree in social work from a Council on Social Work Education accredited program in an accredited college or university (completed within the last 5 years) ;

2. A grade point average of 3.5 out of a 4.0 grading scale or better in all course work; or

3. A grade point average of 3.5 out of a 4.0 grading scale for in the last 60 semester units or last 90 quarter units.

4. A year of full-time paid experience, and/ or applicable internship or volunteer service in the field of social work;

5. Evidence of personal qualifications, motivation, and experience that indicate the likelihood of becoming a successful social worker; an autobiographical statement and three letters of reference from individuals who are familiar with the student's academic background, internship experience, work, potential, and level of maturity;

6. A course in each of the following:

a. Social Science Research Methods

b. Human Behavior Theory

c. Human Biology

To be advanced to candidacy, a student must have:

1. Achieved classified status;

2. Satisfied the general university requirements for advancement to candidacy;

3. Completed the Graduate Entrance Writing requirement through passing the writing intensive SW 6035 course with at least a "B" grade;

4. Completed with a grade point average of at least 3.0 ("B"), at least 22 semester units of course work;

5. Filed an Advancement to Candidacy form which must have the approval of the student's advisor, the field director, and School director indicating demonstrated academic and professional competence in field and classroom.

1. A minimum of 36 semester units of designated graduate courses as approved on the petition for advancement to candidacy;

2. A grade point average of at least 3.0 ("B");

3. Completion of a culminating research project;

4. Up to 16 credits may be transferred from a CSWE Accredited MSW program. Only grades of "B" (3.0) or better will be accepted and student must first be accepted for admission. Courses not in keeping with program requirements may not be acceptable;

5. Completion of all MSW coursework within a four year period;

6. Completion of SW 6013 and SW 6014, which will fulfil the Graduation Writing Assessment Requirement;

7. Any additional requirements not cited above and listed in the Graduate Degree and Program Requirements.

Electives

In lieu of taking an elective in the social work curriculum, students may take up to three semester units of relevant 5000- or 6000- level coursework from other disciplines with the approval of their advisor.

Accreditation

The program has held full accreditation by the Commission on Accreditation of the Council on Social Work Education since February, 1992. Questions regarding accreditation should be directed to the director of the School of Social Work.

Required courses leading to the MSW degree cover five curricular areas: Human Behavior in the Social Environment, Micro Practice, Macro Practice, Research, and Field Work. Courses with each curricular area must be completed in sequence, as they are listed below, and all generalist courses in a category must be completed before taking advanced generalist courses in the same category.

Generalist Curriculum (9)		
SW 6012	Social Work Research II	3
SW 6015	Social Work Research Bridge	2
SW 6035	Generalist Practice Bridge	3
SW 6085	Generalist Field Work Bridge	1
Advanced Generalist Curriculum (27)		
SW 6013	Research Project I	1
SW 6014	Research Project II	2
SW 6023	Advanced Generalist Micro Practice I	3
SW 6024	Advanced Generalist Micro Practice II	3
SW 6063	Advanced Generalist Macro Practice I	3
SW 6064	Advanced Generalist Macro Practice II	3
SW 6083	Advanced Generalist Field Work I	3
SW 6084	Advanced Generalist Field Work II	3
SW 6777	Social Work Advanced Generalist Leadership and Capstone	3
SW 6902	Advanced Topics in Social Work II	3
Total Units		**36**

The research project represents the culminating graduate experience. The research project is developed in SW 6012 and is carried out in the field setting and completed under individual supervision in SW 6013 and SW 6014. It must be on a social work practice topic, must use objective analysis and will be presented to faculty and field personnel orally and in writing.

Master of Social Work

Also offered through the College of Extended and Global Education (3-Year Option only) (http://cel.csusb.edu/)

The School of Social Work offers courses leading to the Master of Social Work (MSW) degree and is designed to educate advanced generalist social work leaders with a program that equally emphasizes micro and macro practice. The micro practice sequence of courses prepares students to promote change and well-being with individuals, families and groups. The macro practice sequence of courses prepares students to promote change and well-being with organizations and communities with an integrated focus on policy practice. The program is based upon the requirements of the Council on Social Work Education, the national accrediting body for social work programs.

The MSW program is offered in three models: Model (1) offers four semesters of course work leading to the MSW degree within two academic years. This option is intended for students who can devote their time and attention to full-time, intensive study. Model (2) offers the same course work over three academic years. The MSW program includes 1080 hours (two or two and a half days) of supervised placement in an agency during the regular work week in the daytime over two academic years. Model (2) is too intensive for students who work 40 hours per week. It is necessary for these students to reduce their hours of employment. Model (3), an Advanced Standing option, is offered to students with a Bachelors degree in Social Work from a CSWE Accredited program. This program can be completed in three (full time) or five (part-time) terms, starting with courses during the summer, then two or four additional semesters of course work.The Advanced Standing option includes 600 hours (two and a half days per week) of supervised placement in an agency during the regular work week in the daytime over one academic year.

Accreditation

The program has held full accreditation by the Commission on Accreditation of the Council on Social Work Education since February 1992. Questions regarding accreditation should be directed to the director of the School of Social Work.

Admission Requirements

Admission into the MSW Program

2-Year or 3-Year Options

Admission to the MSW program is based on an examination of an admission application. In addition to the general requirements of the university, specific minimum requirements for admission consideration are:

1. A baccalaureate degree from an accredited college or university before the start of the MSW program;
2. A grade point average of 3.0 ("B") or better in all course work; or
3. A grade point average of 3.0 ("B") or better in the last 90 quarter units or last 60 semester units; **A GPA of 2.8 or higher (cumulative or last 60 semester units/last 90 quarter units) may be considered with significant social service experience and overall application. The applicant must articulate how their experience is related to social work experience.*
4. An academic background in the liberal arts; with social and behavioral sciences preferred;
5. Paid social work related employment, unpaid social work related experience, internship (social work internship preferred), or volunteer service (the equivalent of at least one year of full-time experience, i.e., 2,080 hours), is preferred, but applicants with less experience will be considered;
6. Evidence of personal qualifications, motivation, and experience that indicate likelihood of becoming a successful social worker; and three references from individuals who are familiar with the student's work, academic background, potential for social work practice, and level of maturity;
7. A course in each of the following:
   a. Social Science Research Methods
   b. Human Behavior
   c. Human Physiology

Students with bachelor's degrees from Council on Social Work Education accredited programs *not* admitted into the Advanced Standing program are required to meet with their faculty advisor prior to beginning course work to determine whether any generalist year MSW courses are redundant with their undergraduate preparation. Such determination may be based on course syllabi, texts, informal evaluation, or formal examination. Each course waived for the qualified applicant must be substituted with an approved elective so that a total of 60 semester units is completed for the master's degree.

Advanced Standing (1-Year or 2-Year) Option

Admission to the Advanced Standing MSW program is based on an examination of an admission application. Student applying to this program must meet general requirements of the university, the requirements for admission into the general MSW program, and specific minimum requirements for admission consideration which includes:

1. A baccalaureate degree in social work from a Council on Social Work Education accredited program in an accredited college or university;
2. A grade point average of 3.0 out of a 4.0 grading scale or better in all course work; or
3. A grade point average of 3.0 out of a 4.0 grading scale for in the last 60 semester units or last 90 quarter units.
4. Students must have earned a minimum grade of B- in all Social Work courses at time of application.

Waiver of Generalist Coursework for Advanced Standing Students

Upon completion of the Advanced Standing Summer Bridge coursework (see below), the generalist coursework (30 units) except for SW 6012 (3 units) will be waived. Students then will be admitted into the MSW program and will complete the Advancement to Candidacy (see below) and complete SW 6012 and the Advanced Generalist year in the program (30 credits). Admission into the Advanced Standing program is conditional until all Summer Bridge coursework have been successfully completed.

The summer bridge coursework includes coursework in the areas of Human Behavior in the Social Environment, Micro Practice, Macro Practice, Research Methods, and Practicum Education. These courses include (see descriptions of courses in Degree Requirements section below) SW 6015, Social Work Research Bridge, SW 6035, Generalist Practice Bridge, and SW 6085, Generalist Practicum Bridge. Once these courses are successfully completed, the student enters the Advanced Generalist year of the MSW program in the Fall Semester, and Generalist coursework (except for SW 6012) is waived. The Generalist courses that are waived include:

- SW 6041: Human Behavior in the Social Environment: Lifespan Development (3 units)
- SW 6042 Human Behavior in the Social Environment: Critical Topics (3 units)
- SW 6021 Generalist Micro Practice I (3 units)
- SW 6022 Generalist Micro Practice II (3 units)
- SW 6061 Generalist Macro Practice I (3 units)
- SW 6062 Generalist Macro Practice II (3 units)
- SW 6011 Social Work Research I (3 units)
- SW 6181 Generalist Field Work I (4 units)
- SW 6182 Generalist Field Work II (3 units)
- Elective Course (3 units)

Students who have this coursework waived are not eligible to apply for the MSW/ MPA Concurrent Program.

Advancement to Candidacy

To be advanced to candidacy, a student must have:

1. Achieved classified status;
2. Satisfied the general university requirements for advancement to candidacy;
3. Completed the Graduate Entrance Writing requirement through passing the writing intensive SW 6042 course with at least a "B" grade, or successfully complete the Advanced Standing Bridge Coursework;
4. Completed with a grade point average of at least 3.0 ("B"), at least 30 semester units of course work, or successfully complete the Advanced Standing Bridge Coursework;
5. Selected a thesis committee and gained approval of the thesis topic by the thesis committee if a thesis is chosen;
6. Filed an Advancement to Candidacy form which must have the approval of the student's advisor, the field director and department director indicating demonstrated academic and professional competence in field and classroom.

Requirements for Graduation

2-Year or 3-Year Options

1. A minimum of 60-semester units of designated graduate courses as approved on the petition for advancement to candidacy,
2. A grade point average of at least 3.0 ("B");
3. Completion of a culminating research project or a thesis;
4. Up to one-half of the course work (30-semester units) may be transferred from an accredited MSW program. Only grades of

"B" (3.0) or better will be accepted and students must first be accepted for admission. Courses not in keeping with program requirements may not be acceptable;
5. Completion of all MSW coursework within a seven year period;
6. Completion of either SW 6016 or SW 6113 and SW 6114, which will fulfill the Graduation Writing Assessment Requirement;
7. Any additional requirements not cited above and listed in Graduate Degree and Program Requirements (p. 74).

Advanced Standing (1-Year or 2-Year) Option

1. Completion of the Advanced Standing Summer Bridge Coursework (6 units) and an additional 29-semester units of designated graduate courses;
2. A grade point average of at least 3.0 ("B");
3. Completion of a culminating research project or a thesis;
4. Up to 10-semester units may be transferred from an accredited MSW program. Only grades of "B" (3.0) or better will be accepted and students must first be accepted for admission. Courses not in keeping with program requirements may not be acceptable;
5. Completion of all MSW coursework within a seven year period;
6. Completion of either SW 6016 or SW 6113 and SW 6114, which will fulfill the Graduation Writing Assessment Requirement;
7. Any additional requirements not cited above and listed in Graduate Degree and Program Requirements (p. 74).

Degree Requirements (35 or 60 units)

Required courses leading to the MSW degree cover five curricular areas: Human Behavior and the Social Environment, Micro Practice, Macro Practice, Research, and Practicum. Courses within each curricular area must be completed in sequence, as they are listed below, and all generalist courses in a category must be completed before taking advanced generalist courses in the same category.

2-Year and 3-Year State-Support Programs: In Person
College of Extended and Global Education (3-Year option): Online

(Program Code: SWM_)

Generalist Curriculum (37)		
SW 6011	Social Work Research I	3
SW 6012	Social Work Research II	3
SW 6021	Generalist Micro Practice I	3
SW 6022	Generalist Micro Practice II	3
SW 6041	Human Behavior in the Social Environment: Lifespan Development	3
SW 6042	Human Behavior in the Social Environment: Critical Topics	3
SW 6061	Generalist Macro Practice I	3
SW 6062	Generalist Macro Practice II	3
SW 6181	Generalist Practicum I	4
SW 6182	Generalist Practicum II	3
Six units of electives from the list below, or approved by advisor if taken outside the school.		6
SW 5031	Social Work in the Global Perspective	
SW 5032	Social Work With Alcohol and Drug Abuse	
SW 5033	Social Work Intervention with Older Adults and Their Families	
SW 5034	Social Work with Alcohol and Drug Abuse II	
SW 5038	Public Child Welfare: Policy and Practice	
SW 5052	Social Welfare and American Indian/ Alaska Native People	
SW 5053	Social Work Practice with the LGBTQ2SIA+ Community	
SW 5054	Diversity, Equity, and Inclusion in Social Work Practice	
SW 5900	Special Topics	
SW 6113	Research Project I	
SW 6901	Advanced Topics in Social Work I	
Advanced Generalist Curriculum (23)		
SW 6023	Advanced Generalist Micro Practice I	3
SW 6024	Advanced Generalist Micro Practice II	3
SW 6063	Advanced Generalist Macro Practice I	3
SW 6064	Advanced Generalist Macro Practice II	3
SW 6183	Advanced Generalist Practicum I	4
SW 6184	Advanced Generalist Practicum II	4
Three units from the following research courses		3
SW 6016	Social Work Research III	
SW 6114	Research Project II	
Total Units		**60**

Course Waivers

Students are permitted to satisfy course requirements in the generalist year curriculum by passing a challenge assessment in each required course. Courses that are successfully challenged must be substituted with an approved elective so that a total of 60-semester units are completed for the master's degree. Practicum courses are not subject to waiver.

Electives

In lieu of taking electives in the social work curriculum, students may take up to six-semester units of relevant 5000- or 6000-level coursework from other disciplines with the approval of their advisor.

Advanced Standing (1-Year or 2-Year)

(Program Code: SWAS)

Summer Bridge Courses (6)		
SW 6015	Social Work Research Bridge	2
SW 6035	Generalist Practice Bridge	3
SW 6085	Generalist Practicum Bridge	1
Generalist Curriculum (3)		
SW 6012	Social Work Research II	3
Advanced Generalist Curriculum (26)		
SW 6023	Advanced Generalist Micro Practice I	3
SW 6024	Advanced Generalist Micro Practice II	3
SW 6063	Advanced Generalist Macro Practice I	3

SW 6064	Advanced Generalist Macro Practice II	3
SW 6183	Advanced Generalist Practicum I	4
SW 6184	Advanced Generalist Practicum II	4
Three units of research courses taken from the following		3
SW 6016	Social Work Research III	
SW 6114	Research Project II	
Three units of electives taken from the following or 3 units of electives taken from another department with approval of academic advisor		3
SW 5031	Social Work in the Global Perspective	
SW 5032	Social Work With Alcohol and Drug Abuse	
SW 5033	Social Work Intervention with Older Adults and Their Families	
SW 5034	Social Work with Alcohol and Drug Abuse II	
SW 5038	Public Child Welfare: Policy and Practice	
SW 5052	Social Welfare and American Indian/ Alaska Native People	
SW 5053	Social Work Practice with the LGBTQ2SIA+ Community	
SW 5054	Diversity, Equity, and Inclusion in Social Work Practice	
SW 6113	Research Project I	
SW 6901	Advanced Topics in Social Work I	
Total Units		**35**

Culminating Experience (6 units)

The research project represents the culminating graduate experience. The research project is developed in SW 6012 and is completed via one of two options in which students investigate a social work practice topic, use objective analysis and present their project to faculty orally and in writing:

Option 1: Students develop a comprehensive research proposal including a research question, literature review, and proposed methods and analysis sections in SW 6016. Students submit this proposal as their research project to the Office of Graduate Studies.

Option 2: Students develop and carry out the same comprehensive research project as in Option 1, but do so under individual supervision in SW 6113 and SW 6114. Students also obtain IRB approval, collect primary or obtain secondary data, analyze the data, and report the results of the project. In this option, the 3 units of SW 6113 can be counted towards the social work elective requirement.

A thesis (SW 6971) may be done as an alternative of the research project with additional expectations, but is optional.

Master of Social Work and Master of Public Administration Concurrent Degrees

College of Social and Behavioral Sciences & Business and Public Administration

School of Social Work, Social & Behavioral Sciences Building, Room 423 (909) 537-5501
Department of Public Administration, Jack Brown Hall, Room 456 (909) 537-5758

The Department of Public Administration and the School of Social Work offer a graduate program leading to Master of Social Work/Master of Public Administration Concurrent Degrees. The degrees are intended for those with an interest in and promise for a career in social services that will lead to top administrative roles. Degree holders will have skills and knowledge to facilitate well-being and change at all system levels.

Prospective concurrent degrees students must be accepted under the admission procedures of each program. The MSW program requires a separate application available through the School of Social Work which will include the additional statement instructions and the Plan of Study form for the concurrent MSW/MPA degrees.

No degree will be conferred until the requirements of the both degrees are fulfilled.

Admission to the Program

To be considered for the concurrent MSW/MPA degrees, prospective students must select the concurrent MSW/MPA degrees in CSU Apply and be accepted to both the MSW and MPA programs. Prospective students must submit a copy an additional application statement with their MSW applications as directed in CSU Apply.

Advancement to Candidacy

Students must complete advancement to candidacy forms in both the MSW and MPA programs.

To be advanced to candidacy, a student must have:

1. Achieved classified status;
2. Satisfied the general university requirements for advancement to candidacy;
3. Selected a thesis committee and gained approval of the thesis topic by the thesis committee if a thesis is chosen;
4. Completed with a grade point average of 3.0 (“B”) at least 30 semester units of course work in the MSW and 15 semester units in the MPA;
5. Demonstrated academic and professional competence in field and classroom;

Requirements for Graduation

1. A minimum of 73 semester units, 52 units must be completed at this university;
2. Fulfilment of all degree requirements;
3. A grade point average of at least 3.0 (“B”) in both the MSW and the MPA courses; Completion of culminating research project or thesis (SW 6014 completed);
4. Complete PA 6550 Public Administration Capstone with a B or better;
5. Successful passing of the MPA Comprehensive Exam PA 6980;
6. the Graduate Writing Assessment Requirement is met upon successful completion of SW 6042.

Concurrent Degrees Requirements (73 units)

(Program Codes: SWPA and PASW)

PA 6110	Public Administration Theory and Practice	3
PA 5140	Nonprofit Management and Leadership	3
PA 6620	Human Resource Management in the Public Sector	3
PA 6630	Public Budgeting and Finance	3
PA 6640	Management of Public Organizations	3
PA 6720	Administrative Regulation	3
SW 6041	Human Behavior in the Social Environment: Lifespan Development	3
SW 6042	Human Behavior in the Social Environment: Critical Topics	3
SW 6011	Social Work Research I	3
SW 6012	Social Work Research II	2
SW 6013	Research Project I	1
SW 6021	Generalist Micro Practice I	3
SW 6022	Generalist Micro Practice II	3
SW 6023	Advanced Generalist Micro Practice I	3
SW 6024	Advanced Generalist Micro Practice II	3
SW 6061	Generalist Macro Practice I	3
SW 6062	Generalist Macro Practice II	3
SW 6064	Advanced Generalist Macro Practice II	3
SW 6081	Generalist Field Work I	3
SW 6082	Generalist Field Work II	3
SW 6083	Advanced Generalist Field Work I	4
SW 6084	Advanced Generalist Field Work II	4
SW 6777	Social Work Advanced Generalist Leadership and Capstone	3
Culminating Experience (5)		**5**
Total Units		**73**

Culminating Experience (5 units)

MSW Culminating Experience (2 units)

The research project represents the culminating MSW graduate experience. The research project is developed in SW 6012 and is carried out in the field setting under individual supervision in SW 6013 and completed in SW 6014. It must be on a social work practice topic, must use objective analysis and will be presented to faculty and field personnel orally and in writing. A thesis (SW 6971) may be done as an alternative of the research project with additional expectations, but is optional.

SW 6014	Research Project II	2
Total Units		**2**

MPA Culminating Experience (3 units)

The culminating experience for the MPA consists of two parts: PA 6980 is the Comprehensive Exam which addresses core course competencies. PA 6550 addresses public administration from a strategic perspective.

PA 6550	Capstone: Strategic Planning for Government and Nonprofit Organizations	3
PA 6980	Comprehensive Examination	0
Total Units		**3**

Bachelor of Arts in Social Work

The School of Social Work offers courses leading to the Bachelor of Arts in Social Work. This degree prepares baccalaureate students for generalist social work practice in agency settings with individuals, families, groups, organizations and communities. The program is accredited by the Council on Social Work Education, the national accrediting body for social work programs. The program is intensive, exciting, and applies to a wide variety of client populations.

Students must complete a supplemental application to the School of Social Work for admission into the Bachelor of Arts in Social Work. This program is impacted.

Admission Requirements

1. Completion of a supplemental application packet including personal statement of commitment to the social work profession, two references, and transcripts; (Contact the School of Social Work for more information.)
2. Completion of most lower division General Education and additional lower division requirements. Applications are scored, in part, based on how many recommended lower division requirements are completed prior to applying.
3. An overall grade point average (GPA) of 2.5 or higher.

Recommendations to enter the Bachelor of Arts in Social Work (all courses are required to graduate with a BASW)

Basic Skills in Written Communication (A2/1A) (3)		**3**
Basic Skills in Oral Communication (A1/1C) (3)		**3**
Basic Skills in Mathematics (B4/2) (3)		**3**
MATH 1201	Introduction to Statistical Thinking	
Basic Skills in Critical Thinking (A3/1C) (3)		**3**
PSYC 1105	Critical Thinking in Everyday Life	
or SOC 1800	Critical Thinking about Social Issues	
Natural Sciences Breadth Area (B2 & B3/5B & 5C) (4)		**4**
BIOL 1000 & 1000L	Introduction to Biology and Introduction to Biology Lab	
Social and Behavioral Sciences Breadth Area (D3/4) (6)		**6**
PSYC 1100	Introduction to Psychology	
SOC 1000	Introduction to Sociology	
Additional Lower Division Requirements to enter the Bachelor of Arts in Social Work (6-7)		**6-7**
SW 2000	Introduction to Social Work	
PSYC 2210	Psychological Statistics	
or ADMN 2100	Applied Business Statistics	
Total Units		**28-29**

School Regulations

Students must attain grades of "C" or better in all Social Work courses required for the major order to progress in the program.

Requirements (70-71 units)

Total units required for graduation: 120

Requirements for the B.A. in Social Work

(Program Code: BASW)

Lower-Division requirements (22-23)		
MATH 1201	Introduction to Statistical Thinking (GE B4/2)	3
PSYC 1105	Critical Thinking in Everyday Life (GE A3/1C)	3
or SOC 1800	Critical Thinking about Social Issues	
BIOL 1000 & 1000L	Introduction to Biology and Introduction to Biology Lab (GE B2 & B3/5B & 5C)	4
PSYC 1100	Introduction to Psychology (GE D3/4)	3
SOC 1000	Introduction to Sociology	3
SW 2000	Introduction to Social Work	3
PSYC 2210	Psychological Statistics	3-4
or ADMN 2100	Applied Business Statistics	
Upper-division requirements (48)		
PSYC 3390	Abnormal Psychology	3
or PSYC 3391	Psychopathology of Childhood	
PA 3800	Introduction to Public Administration	3
SSCI 3060	Expository Writing for the Social Sciences	3
SW 3001	Social Welfare Policy I	3
SW 3002	Social Welfare Policy II	3
SW 3011	Social Work Research	3
SW 3021	Human Behavior and the Social Environment I	3
SW 3022	Human Behavior and the Social Environment II	3
SW 4001	Social Work Practice I	3
SW 4002	Social Work Practice II	3
SW 4181	Social Work Practicum I	5
SW 4182	Social Work Practicum II	4
Three units chosen from:		3
SW 5031	Social Work in the Global Perspective	
SW 5032	Social Work With Alcohol and Drug Abuse	
SW 5033	Social Work Intervention with Older Adults and Their Families	
SW 5034	Social Work with Alcohol and Drug Abuse II	
SW 5038	Public Child Welfare: Policy and Practice	

SW 5052	Social Welfare and American Indian/ Alaska Native People	
SW 5053	Social Work Practice with the LGBTQ2SIA+ Community	
SW 5054	Diversity, Equity, and Inclusion in Social Work Practice	
SW 5900	Special Topics	
Six units of upper division electives from any subject area, not previously used in GE or major.		6
Total Units		**70-71**

Jack H. Brown College of Business and Public Administration

Accredited by AACSB International, the Association to Advance Collegiate Schools of Business

Tomás Gomez-Arias, Dean
Anna Ni, Associate Dean

Jack Brown Hall, Room 278
(909) 537-5700 Jack H. Brown College of Business and Public Administration (https://jhbc.csusb.edu) website

Jack Brown Hall, Room 283
(909) 537-5703 Master of Business Administration (http://mba.csusb.edu) website

Departments/Schools

- Accounting and Finance (https://accountingfinance.csusb.edu/)
- Information and Decision Sciences (http://ids.csusb.edu/)
- Management (http://management.csusb.edu/)
- Marketing (http://marketing.csusb.edu/)
- Public Administration (http://pa.csusb.edu/)
- Randall W. Lewis School of Entrepreneurship and Innovation (https://entre.csusb.edu/)

Departmental Honors

Students majoring in administration are eligible to receive departmental honors if the following conditions are met:

1. At least four courses in the concentration are completed at this university;
2. -3.5 minimum GPA in major;
3. -3.25 minimum GPA in concentration/option

Beta Alpha Psi

Founded in 1919, Beta Alpha Psi is a national scholastic and professional accounting fraternity. The primary objective of the fraternity is to encourage and give recognition to scholastic and professional excellence in the field of accounting. This includes promoting the study and practice of accounting; providing opportunities for self-development and association among members and practicing accountants; and encouraging a sense of ethical, social and public responsibility. The letters Beta, Alpha and Psi denote Scholarship, Social Responsibility and Practicality, respectively.

Beta Gamma Sigma

The university has an active chapter of Beta Gamma Sigma, a national organization that encourages and honors academic achievement and personal excellence in the study and practice of business. Membership is by invitation extended to undergraduate and graduate business students of high scholarship and good moral character.

Emeritus

Margaret K. Gibbs

Undergraduate Degree

Bachelor of Arts

Administration (p. 383)
with concentrations in:

- Accounting
- Business Analytics
- Entrepreneurship
- Finance
- Financial Planning
- General Business
- Hospitality Management
- Human Resource Management
- Information Security
- Information Systems and Technology
- International Business
- Management
- Marketing
- Public Administration
- Real Estate
- Sports and Entertainment Marketing
- Supply Chain Management

Stater Bros. Markets Bachelor of Arts

- Applied Business (p. 476)

Graduate Degree

Accredited by AACSB International, the Association to Advance Collegiate Schools of Business

Master of Business Administration (p. 381)

with concentrations in:

- Traditional Concentrations:
  - Accounting
  - Cyber Security
  - Entrepreneurship
  - Finance
  - Global Supply Chain Management
  - Management
  - Marketing
  - Interdisciplinary
- Executive Concentration

Minors

Business Administration (p. 388)

Master of Business Administration

The Master of Business Administration (MBA) program provides post-baccalaureate students with a high-quality masters-level education in the field of business administration. The program is designed to prepare promising students for positions of increasing responsibility and leadership through education in the broad scope of business. It is open to all qualified students regardless of undergraduate major. The degree program has two concentrations:

MBA - Traditional Concentrations (36 or 42 units): For qualified applicants seeking to develop in-depth, graduate-level knowledge in one or more specialized business areas.

MBA - Executive Concentration (30 units): For qualified applicants possessing early- or mid-career experience who seek to expand their professional knowledge and skills through graduate business education. Also offered through the College of Extended and Global Education (https://cel.csusb.edu/).

Admission to the Program

Suitability for admission to the program will be based on an examination of the entire application package. In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. **Bachelor's Degree**: A bachelor's degree from an accredited college or university, with required minimum GPA of 3.0 calculated using the entire degree or the last 60 semester (90 quarter) units, which may include post baccalaureate work. Students with GPA lower than 3.0 but higher than 2.5 may be permitted to join with an acceptable study and career development plan submitted at the time of the application. The MBA director or MBA committee assesses the acceptability of the study and career development plan.
2. **Personal Statement**: Academic motivation and personal qualifications demonstrated through submission of a 200-250 word statement of reasons for wishing to pursue the MBA at California State University, San Bernardino and personal qualifications that will contribute to successful completion of the program.
3. **Resume**: Submission of a current resume.
4. **Letter of Recommendation and Interview**: One letter of recommendation and an interview with the MBA office are required;
5. **English Proficiency for International Students**: All international applicants who have not completed three years of full-time study at the secondary or post-secondary level where English was the language of instruction must also achieve an acceptable score, as determined by the MBA committee, ratified by the College Curriculum Committee, and in alignment with the Office of Graduate Studies requirements, on the Test of English as a Foreign Language (TOEFL), or the IELTS exam, or must complete CSUSB's ESL program. The current minimum acceptable TOEFL score is 550/PBT, 213/CBT, 79-80/IBT taken within the past two years; IELTS score of 6.5 taken within the past two years; or complete level 4 of CSUSB's Intensive English Program
6. **Work Experience Requirement for Executive Concentration**: Minimum two years of post-undergraduate professional (defined as exempt level) and/or managerial (defined as responsible for scheduling, hiring, firing, evaluating, developing and/or rewarding employees) experience are required.

Advancement to Candidacy

To be advanced to candidacy, a student must have:

1. Achieved classified standing.
2. Successfully completed the Core/Foundation courses (ADMN 6010 with a "C" (2.0) or better and ADMN 6020 with a "B" (3.0) or better);
3. Successfully completed the MBA Boot Camps;
4. Successfully completed 12 units with a minimum of a 3.0 grade point average in the program;
5. Completed an approved graduate program plan in consultation with the MBA office;
6. Secure final approval of the MBA office.

Requirements for Graduation

1. A grade point average of 3.0 ("B") in all course work taken after admission to conditionally classified or classified status, and grades of "C" (2.0) or better in all courses in the program;
2. After successfully advancing to Candidacy and completing all core courses, students are eligible to register for the culminating experience courses (ADMN 6980 and ADMN 6981) or (ADMN 6980 and ADMN 6983):
   a. Successful completion of MBA Portfolio (ADMN 6980) which includes preparation and submission of a portfolio of course work. The portfolio includes a reflective essay showing how the portfolio demonstrates accomplishment of essential goals for the program.
   b. Successful completion of Comprehensive Assessment (ADMN 6981) or Culminating Business Analyst Project (ADMN 6983)meets the culminating experience requirement.
3. Successful completion (a grade of "B" (3.0) or better) of ADMN 6020 meets the graduate writing requirement.
4. No more than 6 semester units of lower than 6000-level course work;
5. A minimum of 30 semester units for the Executive Concentration or 36 semester units for the Traditional Concentration of acceptable graduate-level work, consistent with the program plan (with a minimum GPA of 3.0);
6. At least 70% of the units for the degree are required to complete at California State University at San Bernardino;
7. Any additional general requirements not cited above but listed in Graduate Degree Program Requirements.
8. A "no credit" (NC) designation will be entered on the student's transcript if he/she fails the MBA Culminating Experience courses (ADMN 6980 and ADMN 6981) or (ADMN 6980and ADMN 6983). Students who do not receive a passing grade on the first attempt must petition the MBA office for permission to retake the MBA Culminating Experience courses.
9. Students wishing to change from one concentration to another must reapply to the desired option, meeting all admission requirements.

Degree Requirements (30-45 units)

Core/Foundation (6)		
ADMN 6010	Data-Driven Decision Making	3
ADMN 6020	Advanced Managerial Communications	3
Core/Essentials (21)		

Students must select 7 courses out of 8 courses.		21
ACCT 6060	Accounting for Managerial Decision-Making	
ENTR 6210	Entrepreneurship and New Ventures	
FIN 6020	Financial Theory and Corporate Finance	
IST 6090	Information Systems and Technology Management	
MGMT 6010	Organization Theory and Behavior	
MGMT 6850	Strategic Management	
MKTG 6050	Marketing Management	
SCM 6070	Managing the Supply Chain	
Culminating Experience (0-3)		**0-3**
Concentration (3-15)		**3-15**
Students must satisfy the requirements of one of the concentrations listed below.		
Total Units		**30-45**

Culminating Experience (0-3 units)

ADMN 6980	MBA Portfolio	0
Choose one course from the following:		0-3
ADMN 6981	Comprehensive Assessment	
ADMN 6983	Culminating Business Administration Project	
Total Units		**0-3**

Concentrations (3-15 units)

Accounting and Internal Auditing Concentration

(Program Code: ACIA)

Six units from the following courses:		6
ACCT 6100	Financial Accounting from the User Perspective with Data Analytics in Accounting	
ACCT 6150	Controllership and Professional Ethics	
ACCT 6250	Advanced Internal Auditing	
Three units chosen from any JHBC graduate level course (5000 level or above), including the one course not taken above.		3
Total Units		**9**

Business and Data Analytics

(Program Code:)

IST 6110	Foundations of Analytics and Big Data	3
IST 6030	Foundations of Business Systems	3
IST 6620	Business Analytics and Decision Making	3
Three units from the following courses:		3
IST 6670	Data Warehousing and Business Intelligence	
IST 6680	Business Applications Using Web Technologies	
* Students in this concentration must choose the ADMN 6983 option as part of their culminating experience		
Total Units		**12**

Cyber Security Concentration

(Program Code: CSEC)

IST 6470	Database Management and Policies	3
IST 6480	Information Networking Systems and Security	3
IST 6700	Cybersecurity Policy and Risk Management	3
IST 6720	Cyber Defense and Vulnerability Analysis	3
IST 6730	Cybersecurity Theory and Practice	3
Total Units		**15**

Entrepreneurship Concentration

(Program Code: ENTP)

Six units from the following courses:		6
ENTR 5410	Commercializing Entrepreneurial Innovation	
ENTR 5450	Evidence-Based Resource Planning	
ENTR 6230	The Science of Opportunity: Data-Driven Recognition and Evidence-Based Evaluation	
Three units chosen from any JHBC graduate level course (5000 level or above), including the one course not taken above.		3
Required Course (0 unit)		
ENTR 6980	Reflective Essay	
Total Units		**9**

Finance Concentration

(Program Code: FINN)

Six units from the following courses:		6
FIN 6510	Financial Institutions and Markets	
FIN 6530	Investment Analysis and Portfolio Management	
FIN 6540	International Finance	
Three units chosen from any JHBC graduate level course (5000 level or above), including the one course not taken above.		3
Total Units		**9**

Global Supply Chain Management Concentration

(Program Code: GSCH)

Six units from the following courses:		6
SCM 5150	Project Management	
SCM 6110	Global Supply Chain Management and Logistics	

SCM 6600	Transportation and Supply Chain Management	
Three units chosen from any JHBC graduate level course (5000 level or above), including the one course not taken above.		3
Total Units		**9**

Hospitality Management Concentration

(Program Code: HOSM)

Six units from the following courses:		6
HOSM 5100	Innovation in Hospitality	
HOSM 6200	Hospitality Services Management	
HOSM 6300	Contemporary issues in Hospitality and Tourism	
Three units chosen from any JHBC graduate level course (5000 level or above), including the one course not taken above.		3
Total Units		**9**

Human Resource Management Concentration

(Program Code: HRMG)

HRM 6410	Human Resource Management	3
Six units from the following courses:		6
HRM 5570	Strategic Human Resource Management	
HRM 5580	California Human Resources	
HRM 5590	International Human Resources	
HRM 5930	Contemporary Topics in Human Resources Management	
HRM 5953	Independent Study	
ADMN 5753	Internship	
Three units chosen from any JHBC graduate level course (5000 level or above)		
Total Units		**9**

Management Concentration

(Program Code: MANM)

Six units from the following courses:		6
HRM 6410	Human Resource Management	
MGMT 5050	Managing Across Borders	
MGMT 6550	Leadership as Art and Science	
Three units chosen from any JHBC graduate level course (5000 level or above), including the one course not taken above.		3
Total Units		**9**

Marketing Concentration

(Program Code: MRKM)

MKTG 6100	Consumer and Organizational Buying Behavior	3
MKTG 6400	Advanced Marketing Research	3
3 units chosen from any MKTG or HOSM graduate level course (5000 level or above) not already taken for credit in the program		3
Total Units		**9**

Interdisciplinary Concentration

(Program Code: INDF)

Six units from any of the required courses listed in any of the other concentrations above.	6
Three units from any JHBC graduate level course (5000 or above).	3
Total Units	**9**

Executive Concentration

(Program Code: EXEC)

(Also offered through the College of Extended and Global Education (https://cel.csusb.edu/). Program Code: EXCG)

Three units from any JHBC graduate level course (5000 or above)	3
Total Units	**9**

Bachelor of Arts in Administration

The BA in Administration is designed to prepare students to be responsible management professionals within a dynamic region and a globally connected world. Students will earn specific knowledge and skills within the business and public administration discipline, and build capabilities in communication, problem solving with information technology, and ethical reasoning within a global context. The BA in Administration offers concentrations in Accounting, Business Analytics, Entrepreneurship, Finance, Financial Planning, General Business, Hospitality Management, Human Resource Management, Information Security, Information Systems and Technology, International Business, Management, Marketing, Public Administration, Real Estate, Sports and Entertainment Marketing, and Supply Chain Management.

Degree Requirements (71-72 units)

Total units required for graduation: 120

Students are encouraged to check that they have met the prerequisite requirements for each course in the Jack H. Brown College of Business and Public Administration in which they are planning to enroll. Prerequisite requirements listed for each course are strictly enforced.

Enrollment in 3000-, 4000- and 5000-level courses in the Jack H. Brown College of Business and Public Administration is restricted to students who have completed at least 60 semester units (i.e., have achieved junior standing). Course prerequisites are strictly enforced.

Students who do not meet the stated requirements may be disenrolled from the course(s).

Lower-division core requirements (23-24)

ACCT 2110	Introductory Accounting I	3
ACCT 2120	Introductory Accounting II	3
ADMN 1500	Introduction to Administration	1
ADMN 2100	Applied Business Statistics	3

ECON 2201	Principles of Microeconomics	3
ECON 2202	Principles of Macroeconomics *	3
IST 1110	Introduction to Information Technology	1
MGMT 2300	Legal Environment of Organizations	3
Three or four units chosen from the following courses: +		3-4
MATH 1301	Modeling with Functions	
MATH 1303	Stretch Modeling with Functions B	
MATH 1401	Accelerated Preparation for Calculus	
MATH 1403	Preparation for Calculus B	
MATH 1601	Modeling with Calculus	
MATH 2210	Calculus I	
Upper-division core requirements (24)		
FIN 3001	Finance I	3
IST 3110	Management of Information Technology	3
MGMT 3020	Organizational Behavior	3
MGMT 3500	Applied Communication	3
MGMT 3900	Principles of Strategy	2
MKTG 3050	Marketing Principles	3
PA 3150	Society, Business, & Global Governance %	3
SCM 3040	Principles of Supply Chain Management	3
ADMN 4900	Administration Capstone	1
Breadth Electives (6)		
Six units chosen from the following:		6
ENTR 3000	Entrepreneurship and Innovation	
FIN 3002	Finance II	
MKTG 3160	Research Methods	
PA 3050	Organizations in Multicultural and Diverse Societies	
Concentration (18)		
Students must satisfy the requirements of one of the concentrations listed below.		18
Total Units		**71-72**

* Satisfies GE category 4.
\+ Satisfies GE category 2.
% Satisfies GE category UD-4.

Concentrations (18 units)

Accounting Concentration

(Program Code: ACCT)

A grade of a “C-” or better is required for all Accounting concentration courses.

ACCT 3150	Accounting Information Systems and Business Ethics	3
ACCT 3720	Intermediate Accounting I	3
ACCT 3730	Intermediate Accounting II	3
ACCT 5260	Introduction to Taxation	3
ACCT 5370	Management Accounting and Ethics in Business	3
ACCT 5400	Financial Statement Auditing	3
Total Units		**18**

Business Analytics Concentration

(Program Code: BSAN)

IST 2510	Big Data Analytics	3
IST 4510	Advanced Data Analytics	3
IST 4520	Data Mining	3
IST 3500	Problem Solving and Decision Making	3
IST 4120	Information Systems Planning and Policy	3
Three units chosen from the following:		3
IST 2210	Introduction to Networking and Security	
IST 2310	Applications Development	
IST 2410	Database Management for Business	
IST 2610	Cybersecurity	
IST 3420	Systems Analysis and Design	
IST 4310	Web Technologies	
IST 4320	Advanced Applications Development	
IST 4410	Advanced Database Management and Information Assurance	
IST 5030	Enterprise Resource Planning	
IST 5050	Advanced Enterprise Resource Planning	
IST 5150	Project Management	
IST 5753	Apprenticeship	
IST 5915	Seminar in Information Systems and Technology	
IST 5930	Seminar in Information Systems and Technology	
IST 5951	Independent Study	
IST 5952	Independent Study	
IST 5953	Independent Study	
ADMN 5753	Internship	
MKTG 4160	Marketing Research	
Total Units		**18**

Entrepreneurship Concentration

(Program Code: ENTR)

ENTR 3141	The Improvisational Mind	3
or TA 3141	The Improvisational Mind	
ENTR 4420	Small Business Management	3
ENTR 5430	Ideation and Creative Problem Solving	3
ENTR 5435	Startup Toolbox: Research Essentials for Entrepreneurs	3
ENTR 5440	Developing the New Venture	3
ENTR 5980	Reflective Essay	0
Three units chosen from the following:		3
ENTR 5155	Business Consulting	
ENTR 5260	Global Entrepreneurship	
ENTR 5410	Commercializing Entrepreneurial Innovation	

ENTR 5450	Evidence-Based Resource Planning	
ENTR 5470	Managing a Growing Business	
ENTR 5490	Launching the Entrepreneurial Venture	
ENTR 5550	Entrepreneurship in Action: Corporate, Social and Family Business Approaches	
Any 4000 or 5000 level MGMT, HRM, or MKTG course as approved by the Entrepreneurship program advisor.		
All courses taken to satisfy the Entrepreneurship concentration requirements must be completed with a grade of "C" (2.0) or better, including the core course ENTR 3000.		
Total Units		**18**

Finance Concentration

(Program Code: FIN_)

FIN 4320	Financial Institutions and Capital Market	3
FIN 4330	International Finance	3
FIN 4590	Financial Case Studies	3
or FIN 5270	Financial Derivatives	
FIN 5300	Financial Theory and Practice	3
FIN 5350	Investment Analysis	3
Three units chosen from the following:		3
FIN 3555	Business and Asian Culture	
FIN 3600	Financial Planning Process and the Psychology of Financial Planning	
FIN 3800	Principles of Real Estate	
FIN 4200	Entrepreneurial Finance	
FIN 4450	Financial Data Analytics	
FIN 4590	Financial Case Studies (If not taken previously)	
FIN 4600	Retirement Planning	
FIN 5230	Security Trading and Analysis	
FIN 5270	Financial Derivatives (If not taken previously)	
FIN 5460	Student Managed Investment Fund	
FIN 5850	Real Estate Finance	
FIN 5753	Finance Internship	
Total Units		**18**

Financial Planning Concentration

(Program Code: FNPL)

FIN 3600	Financial Planning Process and the Psychology of Financial Planning	3
FIN 3650	Risk Management and Insurance	3
FIN 4600	Retirement Planning	3
FIN 5350	Investment Analysis	3
ACCT 4260	Introduction to Taxation	3
Three units from the following:		3
FIN 3800	Principles of Real Estate	
FIN 4690	Tax and Estate Planning	
FIN 5300	Financial Theory and Practice	
FIN 5460	Student Managed Investment Fund	
FIN 5600	Code of Ethics and Standards of Conduct in Financial Plan Development	
Total Units		**18**

General Business Concentration

(Program Code: GENB)

The general business concentration is a design your own business concentration, offering you the flexibility to customize your education based on your individual career aspirations.

18 units chosen in consultation with a JHBC advisor from any JHBC 3000-5999 courses. (18)	**18**
Notes:	
No core course in the BA in Administration can double count for the General Business concentration.	
Up to 6 units can double count in both the General Business concentration and another concentration within the BA in Administration program.	
Up to 6 units accepted from a non-JHBC major if you are changing majors to the BA in Administration program.	
Students completing all requirements for a non-JHBC major can have all 18 units in the General Business concentration waived when adding the BA in Administration as a second major.	
Total Units	**18**

Hospitality Management Concentration

(Program Code: HOSM)

HOSM 1600	Restaurant Management	3
HOSM 2500	Introduction to Hospitality and Tourism	3
HOSM 4500	Hotel Operations and Revenue Management	3
HOSM 5300	Meetings and Event Planning	3
HRM 4550	Human Resources Management	3
3 units chosen from the following courses:		3
HOSM 3700	Customer Relationship Management	
HOSM 3800	Global Issues in Hospitality Management	
HOSM 3900	Tourism and Sustainable Development	
HOSM 5100	Innovation in Hospitality	
HOSM 5400	The Art and Science of Wine	
MKTG 5750	Hospitality Internship I	
MKTG 5752	Hospitality Internship II	
Total Units		**18**

Human Resource Management Concentration

(Program Code: HRMG)

HRM 4550	Human Resources Management	3
Three units chosen from the following:		3
MGMT 3350	Business, Ethics, and Society	
MGMT 4520	Leadership and Followership	
MGMT 5050	Managing Across Borders	
Nine units chosen from the following:		9

HRM 4560	Staffing	
HRM 4570	Industrial and Labor Relations	
HRM 4580	Employment Law	
HRM 4600	Compensation and Performance	
Three units chosen from the following:		3
HRM 4560	Staffing	
HRM 4570	Industrial and Labor Relations	
HRM 4580	Employment Law	
HRM 4590	Human Resources Development	
HRM 4600	Compensation and Performance	
HRM 5570	Strategic Human Resource Management	
HRM 5580	California Human Resources	
HRM 5590	International Human Resources	
ADMN 5753	Internship	
HRM 5930	Contemporary Topics in Human Resources Management	
Total Units		**18**

Information Security Concentration

(Program Code: ISEC)

IST 2210	Introduction to Networking and Security	3
IST 2610	Cybersecurity	3
IST 4120	Information Systems Planning and Policy	3
IST 4610	Cybersecurity Management	3
Six units chosen from the following:		6
IST 2310	Applications Development	
IST 4310	Web Technologies	
IST 4620	Penetration Testing and Ethical Hacking	
IST 5150	Project Management	
IST 5250	Incident Handling and Cyber Investigation	
IST 5753	Apprenticeship	
IST 5930	Seminar in Information Systems and Technology	
IST 5951	Independent Study	
IST 5952	Independent Study	
IST 5953	Independent Study	
ADMN 5753	Internship	
Total Units		**18**

Information Systems and Technology Concentration

(Program Code: INST)

IST 2210	Introduction to Networking and Security	3
IST 2410	Database Management for Business	3
IST 2610	Cybersecurity	3
IST 4120	Information Systems Planning and Policy	3
IST 4210	Advanced Networking and Security	3
Three units chosen from the following:		3
IST 2310	Applications Development	
IST 2510	Big Data Analytics	
IST 3420	Systems Analysis and Design	
IST 3500	Problem Solving and Decision Making	
IST 4310	Web Technologies	
IST 4320	Advanced Applications Development	
IST 4410	Advanced Database Management and Information Assurance	
IST 4510	Advanced Data Analytics	
IST 5150	Project Management	
IST 5753	Apprenticeship	
IST 5930	Seminar in Information Systems and Technology	
IST 5951	Independent Study	
IST 5952	Independent Study	
IST 5953	Independent Study	
ADMN 5753	Internship	
Total Units		**18**

International Business Concentration

(Program Code: INTB)

MKTG 4700	International Marketing	3
MKTG 4760	Strategic Issues in International Business	3
MGMT 5050	Managing Across Borders	3
Three units of an approved foreign language. *		3
Six units chosen from one of the following three regional focus areas:		6
Asia Regional Focus Area:		
ANTH 3703R	Anthropology of Asia: Cultures, Communities, and Migration	
ANTH 3704R	Anthropology of the Middle East	
CAL 3750	Islam in Today's World	
FIN 3555	Business and Asian Culture	
HIST 4350	World War II in the Pacific	
CAL 3888	Asian Humanities in a Globalized World	
PHIL 3450	Asian Philosophy	
PSCI 3050	East Asian Politics	
PSCI 3080	Government and Politics of the Middle East	
SSCI 3000	Global Issues and Perspectives	
Up to six units of study abroad courses visiting countries in Asia.		
Any other Asia region focused course approved by the program director.		
Europe Regional Focus Area:		
HIST 5030	Europe Since 1945	
PSCI 3040	East European Political Systems	
PSCI 5900	Seminar in International Relations	
Up to six units of study abroad courses visiting countries in Europe.		
Any other Europe region focused course approved by the program director.		

Latin America Regional Focus Area:		
ANTH 3701R	Cultures of Mexico and Central America	
ANTH 3702R	Anthropology of South America	
HIST 4650	Modern Central America	
HIST 4660	Foreign Relations of Latin America	
HIST 4700	Modern Latin America	
Up to six units of study abroad courses visiting countries in Latin America.		
Any other Latin America region focused course approved by the program director.		
Total Units		**18**

* This program has a foreign language requirement. Students are required to take three units in a foreign language. Students may select courses in any of the following languages offered at CSUSB: Arabic, Chinese, French, Japanese, Korean, Portuguese, Spanish, American Sign Language, Cahuilia, Luiseño, and Serrano. Additional foreign languages may be approved by the Chair of the Department of Marketing. Courses must not be taught in English. Students wishing to take 3 units in a foreign language not offered at CSUSB may request approval from the Chair of the Department of Marketing.

Management Concentration

(Program Code: MNGT)

MGMT 3350	Business, Ethics, and Society	3
MGMT 4520	Leadership and Followership	3
MGMT 4910	Strategic Management	3
MGMT 5050	Managing Across Borders	3
HRM 4550	Human Resources Management	3
Three units chosen from the following:		3
MGMT 3300	Legal Environment of Business	
MGMT 4020	Organizational Change and Disruptions	
MGMT 4030	Managing Negotiations	
MGMT 4040	Technological Innovation Management	
MGMT 4500	Interpersonal Relationships at the Workplace	
MGMT 4920	Future of Work and Management	
MGMT 5590	Leading Teams in Organizations	
MGMT 5930	Contemporary Topics in Management	
MGMT 5951	Independent Study	
MGMT 5952	Independent Study	
MGMT 5953	Independent Study	
ADMN 5753	Internship	
ADMN 5910	Seminar in Administration	
ADMN 5920	Seminar in Administration	
ADMN 5930	Seminar in Administration	
In addition to the grade point average requirements stated in Program Requirements for a Bachelor's Degree, students must earn a grade of "C" (2.0) or better in all courses required to fulfill the Concentration in Management.		
Total Units		**18**

Marketing Concentration

(Program Code: MKTG)

MKTG 4100	Consumer Behavior	3
MKTG 4160	Marketing Research	3
MKTG 4200	Marketing Communications	3
MKTG 4300	Professional Selling and Sales Management	3
MKTG 4960	Strategic Marketing Planning	3
or MKTG 4760	Strategic Issues in International Business	
Three units chosen from the following:		3
Any MKTG or HOSM course not previously counted as part of the degree requirements.		
ADMN 5753	Internship	
Total Units		**18**

Public Administration Concentration

(Program Code: PA__)

PA 3800	Introduction to Public Administration	3
PA 4620	Managing Human Resources For Public Service Organizations	3
PA 4630	Budgeting for Public Service Organizations	3
PA 4700	Public Policy and Administration	3
Six units chosen from the following:		6
PA 3070	Public Relations in the Public Sector	
PA 5010	Ethical Public Service Leadership	
PA 5140	Nonprofit Management and Leadership	
PA 5150	Nonprofit Staff and Volunteer Management	
PA 5170	Nonprofit Fundraising and Grantwriting	
PA 5190	Managing Diversity in Organizations	
PA 5210	Community Planning and Management	
PA 5280	Intergovernmental Relations and Policy Networks	
PA 5570	Public Sector Labor Relations	
PA 5640	Economic and Community Development	
PA 5730	Public Transportation Systems	
PA 5753	Internship in Public Administration	
PA 5900	Special Topics in Public Administration	
PA 5951	Independent Study	
PA 5952	Independent Study	
PA 5953	Independent Study	
Total Units		**18**

Real Estate Concentration

(Program Code: RLST)

FIN 3800	Principles of Real Estate	3
FIN 4800	Real Estate Appraisal	3
FIN 4810	Real Estate Practice	3
FIN 5850	Real Estate Finance	3

FIN 4590	Financial Case Studies	3
or FIN 5350	Investment Analysis	
Three units chosen from the following:		3
FIN 3555	Business and Asian Culture	
FIN 3600	Financial Planning Process and the Psychology of Financial Planning	
FIN 3850	Real Estate Accounting	
FIN 4320	Financial Institutions and Capital Market	
FIN 4330	International Finance	
FIN 4450	Financial Data Analytics	
FIN 4590	Financial Case Studies (If not taken previously)	
FIN 4600	Retirement Planning	
FIN 4820	Real Estate Development	
FIN 4850	Legal Aspects of Real Estate	
FIN 5230	Security Trading and Analysis	
FIN 5300	Financial Theory and Practice	
FIN 5350	Investment Analysis	
FIN 5460	Student Managed Investment Fund	
FIN 5860	Computer Applications in Real Estate	
FIN 5880	Real Estate Office Administration	
FIN 5753	Finance Internship	
Total Units		**18**

Sports and Entertainment Marketing Concentration

(Program Code: SPEN)

MKTG 4160	Marketing Research	3
MKTG 4300	Professional Selling and Sales Management	3
MKTG 5250	Sports and Entertainment Marketing	3
MKTG 5500	Advanced Sports Marketing Planning and Strategy	3
MKTG 5550	Advanced Entertainment Marketing Planning and Strategy	3
Three units chosen from the following:		3
Any MKTG or HOSM course not previously counted as part of the degree requirements.		
ADMN 5753	Internship	
Total Units		**18**

Supply Chain Management Concentration

(Program Code: SCM_)

SCM 5030	Enterprise Resource Planning	3
SCM 4400	Logistics and Transportation Management	3
SCM 4700	Advanced Supply Chain and Logistics Management	3
SCM 4750	Supply Chain Business Analytics	3
SCM 5150	Project Management	3
Three units chosen from the following:		3
SCM 3500	Problem Solving and Decision Making	
SCM 4450	International Logistics	
SCM 5050	Advanced Enterprise Resource Planning	
SCM 5250	Quality Management	
SCM 5753	Apprenticeship	
SCM 5930	Seminar in Supply Chain Management	
SCM 5951	Independent Study	
SCM 5952	Independent Study	
SCM 5953	Independent Study	
GEOG 5303	Advanced Topics in GIS and Spatial Techniques	
ADMN 5753	Internship	
Total Units		**18**

Minor in Business Administration

In addition to the grade point average requirements stated in Program Requirements for a Bachelor's Degree (p. 67), an administration major or minor student must earn a grade of ("C") 2.0 or better in all units used to fulfill the requirements of the concentration or minor.

Requirements for a minor in Business Administration (22 units)

ADMN 1500	Introduction to Administration	1
21 units chosen from the following courses, 6 units must be upper-division:		21
ADMN 2100	Applied Business Statistics	
ACCT 2110	Introductory Accounting I	
ACCT 2120	Introductory Accounting II	
ENTR 3000	Entrepreneurship and Innovation	
FIN 3001	Finance I	
FIN 3002	Finance II	
IST 1110	Introduction to Information Technology	
IST 3110	Management of Information Technology	
MGMT 2300	Legal Environment of Organizations	
MGMT 3020	Organizational Behavior	
MGMT 3500	Applied Communication	
MGMT 3900	Principles of Strategy	
MKTG 3050	Marketing Principles	
MKTG 3160	Research Methods	
PA 3050	Organizations in Multicultural and Diverse Societies	
PA 3150	Society, Business, & Global Governance	
SCM 3040	Principles of Supply Chain Management	
Nine units of the minor must be completed at CSUSB.		
Total Units		**22**

Department of Accounting and Finance

Jack Brown Hall, Room 459
(909) 537-5704 Department of Accounting and Finance (https://accountingfinance.csusb.edu) website

The university offers concentrations in Accounting, Finance and Financial planning within the Bachelor of Arts in Administration (p. 383) and the Master of Business Administration (p. 381). A Certificate in Accounting (p. 395) is also available. Accounting and Finance courses are offered in support of these programs. Further information is available from the Department of Accounting and Finance.

The M.S. in Accountancy prepares students for a wide range of employment opportunities in public accounting, industry and finance, government and nonprofit organizations. The program is designed to produce individuals who are qualified with knowledge and skills in Professional Accounting and Accounting Information Systems. Graduates of the program are prepared to successfully challenge a professional examination for entry into the selected area; committed professional and career development beyond their formal education into highest executive levels of the selected area; capable of becoming leaders who exhibit high standards of ethical conduct within the profession; and prepared for doctoral and research positions.

The Master of Science in Finance (MSF), a Self-support program offered through the College of Extended and Global Education (https://cel.csusb.edu/), provides post-baccalaureate students pursuing a career in investments with a high-quality master-level education in the field of investment ~~education.~~ The objective is to educate post-baccalaureate students to be experts in investment analysis and portfolio management. The Master of Science in Finance is open to all qualified students regardless of undergraduate major.

Current Faculty

Rodrigo Cardenas Mutis, Assistant Professor of Accounting and Finance
Ph.D. 2023

John R. Dorocak, Professor of Accounting and Finance
A.B. 1973, Xavier University, Cincinnati, Ohio
J.D. 1977, Case Western Reserve University, Cleveland, Ohio
D.B.A. 1990, University of Florida

Liang Kevin Guo, Professor of Accounting and Finance
B.A. 2002, Peking University
M.S. 2006, Boston University
Ph.D. 2013, University of Texas - San Antonio

John Jin, Professor of Accounting and Finance
B.A. 1979, M.B.A. 1981, Yon-Sei University
M.S. 1984, University of Illinois at Urbana-Campaign
Ph.D. 1989, University of Arizona

Taewoo Kim, Associate Professor of Accounting and Finance
B.A. 2000, Sungkyunkwan University
M.S. 2002, Sungkyunkwan University
Ph.D. 2013, State University of New York at Buffalo

Xiang Liu, Professor of Accounting and Finance
B.A. 1998, Beijing Foreign Studies University
M.B.A. 2004, University of Washington
Ph.D. 2009, University of North Texas

Yu Liu, Associate Professor of Accounting and Finance
B.E. 2003, Huazhong University
M.B.A. 2010, Southern New Hampshire University
Ph.D. 2016, Georgia State University

Vishal Munsif, Associate Professor of Accounting and Finance
B.B.A. 2007, M.A.C.C. 2007, Northern Kentucky University
Ph.D. 2011, Florida International University

Hang Pei, Associate Professor of Accounting and Finance
B.A. 2007, Beihang University
M.A. 2010, The George Washington University
Ph.D. 2016, The George Washington University

Ghulam Sarwar, Professor of Accounting and Finance
B.S. 1980, University of Faisalabad
M.S. 1984, University of Philippines
Ph.D. 1989, University of Nebraska, Lincoln
Ph.D. 1997, Oklahoma State University

David Senteney, Professor of Accounting and Finance
B.S. 1980, Eastern Illinois University
M.A.S. 1983, Ph.D. 1987, University Of Illinois, Urbana-Champaign

Tian Tian, Assistant Professor of Accounting and Finance
B.A. 2010, Kuala Lumpur Infrastructure University College
M.S. 2013, University of Toledo
Ph.D. 2022, Florida International University

Taewon Yang, Professor of Accounting and Finance, Chair, Chair
B.S. 1993, Hankuk Aviation University
M.B.A. 1996, Ohio State University
Ph.D. 2002, University of Massachusetts

Emeriti

Gene L. Andrusco

Mohammad Bazaz

Frank Benson

Cynthia Bird

James Estes

Linvol Henry

Sung-Kyoo Huh

Rauf A. Khan

Dong Man Kim

Barry Knight

Eldon Lewis

Richard Lillie

Steven Mintz

Gordon Patzer

Lawrence Rose

David Schalow

Winifred Scott

John Scribner

Hossein Shalchi

Kenneth Thygerson

Michael Trubnick

Mohamad T. Vaziri

L. Curtis Westbrook, Jr.

Graduate Degree

Master of Science

- Accountancy (p. 390)
- Financial Analytics (p. 392) (Offered through the College of Extended and Global Education (https://cel.csusb.edu/))

Minors

- Accounting (p. 393)
- Finance (p. 393)
- Real Estate (p. 394)

Certificates

- Accounting (p. 395) (Offered through the College of and Global Education (https://cel.csusb.edu/))

Master of Science in Accountancy

The Master of Science in Accountancy (MSA) prepares students for a wide range of employment opportunities in public accounting, industry, finance, government and nonprofit organizations, and higher education. The program is designed to prepare graduates who 1) possess knowledge and skills in professional accounting, 2) can successfully pursue professional certifications (e.g., CPA, CMA, CIA), 3) are capable of becoming leaders who exhibit high standards of professional ethical conduct, and 4) are interested in pursuing doctoral and research studies.

The Master of Science in Accountancy (MSA) online Option delivers the regular MSA program in an online mode and is offered through the College of Extended and Global Education (https://cel.csusb.edu/).

The Master of Science in Accountancy (MSA) CAPE Blended Option is a variant of the regular MSA program. It provides CSUSB accounting students with an accelerated route to a graduate degree, with simultaneous awarding of both bachelor's and master's degrees. The CAPE Blended Option allows students to earn graduate credit for several elective courses taken during the junior and senior years, effectively decreasing the summed unit requirement for both degrees. The CAPE Blended Option provides a seamless process whereby students can progress from undergraduate to graduate status.

Admission to the MSA CAPE Blended Option is by invitation from the Department of Accounting and Finance.

Students admitted to the CAPE Blended Program can earn graduate credit for up to three 5000-level Accountancy courses (9 units) taken in undergraduate status. However, if a MSA CAPE Blended student wants to earn at least 150 credit units, the student would need to takeACCT 5440 and another two graduate level Accounting or Finance courses.

Admission to the MSA program

Admission to the MSA (Master Science in Accountancy) program is based on a holistic review of the entire application package, evaluating academic preparation, professional potential, and alignment with the focus on Accountancy. In addition to the general university requirements, applicants must meet the following criteria:

1. Bachelor's degree and GPA: Applicants must hold a bachelor's degree from an accredited college or university with a minimum GPA of 2.75 on a 4.0 scale. Applicants with at least GPA of 2.5 on a 4.0 scale may still be considered if they have an undergraduate degree in BA or BS in Accountancy or demonstrate at least 1 year of relevant professional experience in Accounting or related fields.
2. Statement of Purpose: Submit a 500-750 word statement outlining career goals and showing how the MSA program will help the applicant to achieve career goals.
3. Resume: Provide a current resume detailing academic background, professional experience, internships, skills, and extracurriculars. Accounting professional experience is highly regarded in evaluations.
4. Transcripts: Official transcripts from all post-secondary institutions are required.
5. Recommendation Letter: A letter of recommendation is encouraged but not required. For applicants with non-accounting backgrounds or lower GPAs, it is recommended to highlight your interest in an accounting career path in the letter.
6. Standardized Tests: No GMAT or GRE required.
7. English Proficiency for International Students: International applicants whose primary language is not English and who have not completed three years of full-time study at an English-medium institution must submit scores from TOEFL (minimum 550/PBT, 213/CBT, 79-80/IBT), IELTS (minimum 6.5), or Duolingo (minimum 110), taken within the past two years. Completion of Level 4 of CSUSB's Intensive English Program also satisfies this requirement.
8. Upcoming CSUSB graduates (MSA 3:2 Option): CSUSB undergraduates meeting the MSA 3:2 criteria (detailed below) may apply directly; contact the MSA Director or department chair for details.
9. Competence in the following prerequisite courses or their equivalents.

ACCT 2110	Introductory Accounting I	3
ACCT 2120	Introductory Accounting II	3
ACCT 3720	Intermediate Accounting I	3
ACCT 3730	Intermediate Accounting II	3
MGMT 2300	Legal Environment of Organizations	3

NOTE: Competence in the above prerequisite courses may be demonstrated by:

- Formal completion of the course or its equivalent
- Credit by examination
- Waiver based on specialized work experience; must have documentation of work directly related to course to be waived; and must be approved by the MSA Coordinator or department chair. (Students requesting waiver of any

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prerequisite courses must petition the MSA Director
or department chair. Inquiries about a challenge
examination or substitution for the upper level wrting
requirement should be directed to the Dean of Graduate
Studies.
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Students who meet all entrance requirements except course prerequisites may be admitted to the program in a conditionally classified status until those prerequisite deficiencies are removed, at which time they will be advanced to classified graduate standing in the program. Only fully classified students, however, may enroll in 6000-level courses unless they have written consent from the MSA Director or department chair.

Admission to the MSA CAPE Blended Program

This accelerated pathway allows eligible CSUSB undergraduates to begin MSA coursework in their senior year, reducing time to degree completion. In addition to the university requirements, invitations are based on:

1. Academic Standing: Must be a CSUSB undergraduate with junior standing or higher.
2. Residency Units: Completed at least 12 upper-division units in residence at CSUSB.
3. Coursework: Completed ACCT 3720 and ACCT 5260 (ACCT 4260) with a GPA of 2.75 or higher across these two courses or instructor's recommendation;
4. Graduation Timeline: Not in the semester of baccalaureate degree completion.
5. Overall GPA: Minimum CSUSB GPA of 2.75, or by the MSA Director’s or department chair’s consent.

Graduate assistantship may be available for qualified students on a competitive basis.

Advancement to Candidacy

To be advanced to candidacy, a student must have

1. Achieved classified standing;
2. Completed at least 9 semester units of applicable graduate-level course work at the university, with a minimum grade point average of 3.0 ("B");
3. Completed an approved graduate program plan in consultation with the MSA Director or department chair after completion of four 5000-level accounting electives.

Requirements for Graduation

1. A minimum of 30-semester units of acceptable graduate-level work, consistent with the program plan (with a grade point average of 3.0), with at least 21-semester units completed at the university;
2. At least 24-semester units of 5000-6999-level coursework;
3. At least 15-semester units of credit taken after advancement to candidacy for the degree;
4. Successful completion of the required core courses and elective options as outlined in the curriculum section;
5. A grade point average of 3.0 (“B”) or better in all course work taken after admission to conditionally classified or classified status, and grades of 2.0 (“C”) or better in all courses in the program;
6. Students must earn "Credit" from ACCT 5980 (0 unit) at least twice for graduation.
7. After advancement to candidacy and completion of all course requirements except the culminating experience and one of MSA required courses, students must complete ACCT 6970.
8. The graduation writing requirement is met upon successful completion of ACCT 6500.
9. Any additional general requirements not cited above and listed in the Graduate Degree and Program Requirements (p. 74) section of this bulletin.

A "No credit" (NC) designation will be entered on the student's transcript if they fail the culminating experience requirement. Students who do not receive a passing grade on the culminating experience requirement on the first attempt must petition the MSA Director or department chair for permission to retake the culminating experience requirement. Only students who are in classified status, have been advanced to candidacy, have obtained approval of the MSA Director or department chair, and are not on probation may retake the culminating experience requirement.

Degree Requirements (30 units)

(Program Code: ACCY)

Required Courses (12)		
ACCT 5360	Corporate and Partnership Taxation	3
ACCT 5980	CPA Preparation & Practice * Students must earn credit for this course at least twice.	0
ACCT 6100	Financial Accounting from the User Perspective with Data Analytics in Accounting	3
ACCT 6200	Seminar in Advanced Auditing, Accounting Information Systems and Accounting Data Analytics	3
ACCT 6500	Advanced Financial Reporting Seminar	3
Elective Courses (15)		
Minimum of 15 elective units chosen from list below in consultation with the MSA Director or department chair.		15
ACCT 5200	Forensic Accounting I	
ACCT 5300	Seminar in Taxation	
ACCT 5390	Advanced Accounting	
ACCT 5410	EDP Auditing and Control	
ACCT 5440	Accounting Law, Ethics and Institutions	
ACCT 5680	Accounting for Government and Not-for-Profit Organizations	
ACCT 6150	Controllership and Professional Ethics	
ACCT 5753	Accounting Internship	
ACCT 5930	Seminar in Accounting	
ACCT 5951	Independent Study	
ACCT 5952	Independent Study	
ACCT 5953	Independent Study	
Culminating Experience: (3)		**3**
Total Units		**30**

Graduate-level elective courses offered by other departments within the College of Business and Public Administration require approval of the MSA Director or department chair for course substitution.

Students may not take more than a total of 6 semester units in any combination of College of Business & Public Administration 5953, 5955, 5753, 5755, 5915, 5930, 6753, and 6755 courses. The program may

not include more than 9 semester units in transfer credit from other universities. CSUSB will not consider for transfer, credit course work from any institution which will not accept that work in its own advanced degree program.

Culminating Experience (3 units)

Culminating Experience (3)		
ACCT 6970	MSA Comprehensive Examination	3

Master of Science in Financial Analysis

Self-support, offered through the College of Extended and Global Educatio (https://cel.csusb.edu/)n

The Master of Science in Finance (MSF) program provides post-baccalaureate students pursuing a career in investments with a high-quality master-level education in the field of investment. The objective is to educate post-baccalaureate students to be experts in investment analysis and portfolio management. The Master of Science in Finance is open to all qualified students regardless of undergraduate major.

The Master of Science in Finance (MSF) 4:1 Option (blended) is a variant of the regular MSF program. It provides CSUSB undergraduate students in the BA in Administration program with a concentration in Finance with a route to a graduate degree. The 4:1 Option (blended) provides a seamless process whereby students can progress from undergraduate to graduate status by allowing for the transfer of credit for 3 courses (9 units) from the finance concentration to the MSF program. Admission to the MSF 4:1 Option (blended) is by invitation from the Department of Accounting and Finance.

Admission to the MSF Program

Admission to the MSF (Master Science in Finance) program is based on a holistic review of the entire application package, evaluating academic preparation, professional potential, and alignment with focus on financial analytics. In addition to the general university requirements, applicants must meet the following criteria:

1. **Bachelor's degree and GPA**: Applicants must hold a bachelor's degree from an accredited college or university with a minimum GPA of 2.75 on a 4.0 scale. Applicants with at least GPA of 2.5 on a 4.0 scale may still be considered if they have STEM designated undergraduate degree or demonstrate at least 1 year of relevant professional experience in finance, data analysis, technology, or related fields.
2. **Statement of Purpose**: Submit a 500-750 word statement outlining your career goals, how the MSF program's curriculum will help the applicant to achieve his or her goals and to gain any relevant quantitative or analytical experience. And the applicant needs to highlight his or her interest in financial analytics.
3. **Resume**: Provide a current resume detailing academic background, professional experience, internships, skills, and extracurriculars. Quantitative or technical experience is highly regarded in evaluation.
4. **Transcripts**: Official transcripts from all post-secondary institutions are required. The department will evaluate quantitative readiness based on coursework in areas such as statistics, calculus, linear algebra, programming, or economics. A minimum of one undergraduate course (or equivalent professional training) in statistics is preferred. If deficiencies are identified, applicants may be admitted conditionally and required to complete a bridge course prior to enrollment.
5. **Recommendation Letter:** A letter of recommendation is encouraged but not required. For applicants with non-finance backgrounds or lower GPAs, it is recommended to highlight quantitative strengths in the letter.
6. **Standardized Tests**: No GMAT or GRE required, aligning with the program's emphasis on practical analytics skills over test scores.
7. **English Proficiency for International Students:** International applicants whose primary language is not English and who have not completed three years of full-time study at an English-medium institution must submit scores from TOEFL (minimum 550/PBT, 213/CBT, 79-80/IBT), IELTS (minimum 6.5), or Duolingo (minimum 110), taken within the past two years. Completion of Level 4 of CSUSB's Intensive English Program also satisfies this requirement.
8. **Optional Portfolio**: Applicants may submit a portfolio of quantitative work (e.g., a research project, financial model, or data analysis sample) to strengthen their application, particularly for those from non-traditional backgrounds.
9. **Upcoming CSUSB graduates (MSF 4:1 Option)**: CSUSB undergraduates meeting the MSF 4:1 criteria (detailed below) may apply directly; contact the MSF Director or department chair for details.

Admission to the MSF 4:1 Option (Blended) Program

This accelerated pathway allows eligible CSUSB undergraduates to begin MSF coursework in their senior year, reducing time to degree completion. In addition to the university requirements, invitations are based on:

1. **Academic Standing**: Must be a CSUSB undergraduate with junior standing or higher.
2. **Residency Units**: Completed at least 12 upper-division units in residence at CSUSB.
3. **Coursework**: Completed FIN 3001 and FIN 3002 with a GPA of 2.75 or higher across these two courses or instructor's recommendation;
4. **Graduation Timeline**: Not in the semester of baccalaureate degree completion.
5. **Overall GPA**: Minimum CSUSB GPA of 2.75, or by the MSF Director's or department chair's consent.

Accepted 4:1 students receive conditionally classified status. Status become fully classified upon the bachelor's degree completion. Graduate assistantship may be available for qualified students on a competitive basis.

Advancement to Candidacy

To be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Completed at least 15 semester units of applicable graduate-level course work at the university, with a minimum grade point average of 3.0;
3. Completed an approved graduate program plan in consultation with an MSF advisor after achieving classified status;
4. Secured the approval of candidacy from the MSF Graduate Director and the Dean of Graduate Studies.

Requirements for Graduation

1. A minimum of 33-semester units of acceptable graduate-level work, as shown in the "Degree Requirements" with a grade point average of 3.0 in all course work taken after admission to conditionally classified or classified status, and grades of "C" (2.0) or better in all courses in the program;
2. Successful completion of an integrative comprehensive examination (FIN 6980). Successful completion means students correctly answer at least 80% of the comprehensive exam questions. Students with a grade point average below 3.0 will not be permitted to take the examination. A “no credit” (NC) designation will be entered on the student’s transcript if he/she fails the examination. Students who do not receive a passing grade may repeat the examination, one additional time only, with the written approval of the MSF Graduate Coordinator. Only students who are currently classified, have been advanced to candidacy, have completed their core classes, and are not on probation may take the examination.
3. Successful completion of FIN 6985 (MSF Portfolio) which includes preparation and submission of a portfolio of course work. The portfolio includes a reflective essay showing how the portfolio demonstrates the accomplishment of essential goals for the program. Students register for this 0-unit course after advancement to candidacy.
4. Successful completion of FIN 6980 meets the culminating experience requirement and successful completion (a grade of "B" (3.0), or better);
5. At least 24-semester units completed at California State University, San Bernardino.

Degree Requirements (33 units)

(Program Code: FINA)

FIN 5780	Financial Analytics I	3
FIN 5790	Financial Analytics II	3
FIN 6771	Ethical and Professional Standards	3
FIN 6772	Quantitative Methods for Finance	3
FIN 6773	Financial Market and Environment	3
FIN 6774	Financial Statement Analysis I	3
FIN 6776	Advanced Corporate Finance	3
FIN 6777	Portfolio Management	3
FIN 6778	Global Equity Investment	3
FIN 6779	Fixed Income	3
FIN 6780	Derivative and Alternative Investment	3
FIN 6985	MSF Portfolio	0
Culminating Experience (0)		**0**
Total Units		**33**

Culminating Experience (0 units)

FIN 6980	Finance Comprehensive Examination	0
Total Units		**0**

Minor in Accounting

Minor Requirements (24 units)

Lower-division requirements (6)		
ACCT 2110	Introductory Accounting I	3
ACCT 2120	Introductory Accounting II	3
Upper-division requirements (18)		
ACCT 3720	Intermediate Accounting I	3
Fifteen units chosen from the following course:		15
MGMT 2300	Legal Environment of Organizations	
ACCT 3150	Accounting Information Systems and Business Ethics	
ACCT 3730	Intermediate Accounting II	
ACCT 5260	Introduction to Taxation	
ACCT 5360	Corporate and Partnership Taxation	
ACCT 5370	Management Accounting and Ethics in Business	
ACCT 5400	Financial Statement Auditing	
ACCT 5680	Accounting for Government and Not-for-Profit Organizations	
ACCT 5390	Advanced Accounting	
ACCT 5410	EDP Auditing and Control	
ACCT 5440	Accounting Law, Ethics and Institutions	
FIN 3555	Business and Asian Culture	
Total Units		**24**

Minor in Finance

Requirements for a minor in Finance (23 units)

Lower-division requirements (11)		
FIN 1001	Financial Choices in Life	2
ACCT 2110	Introductory Accounting I	3
ACCT 2120	Introductory Accounting II	3
Three units chose from the following courses: * Satisfies GE category B4		3
MATH 1301	Modeling with Functions	
MATH 1401	Accelerated Preparation for Calculus	
MATH 1601	Modeling with Calculus	
MATH 2210	Calculus I	
Upper-division requirements (12)		
FIN 3001	Finance I	3
FIN 3002	Finance II	3
Six units chosen from the following courses:		6
FIN 3555	Business and Asian Culture	
FIN 4300	Financial Theory and Practice	
FIN 4320	Financial Institutions and Capital Market	
FIN 4330	International Finance	
FIN 4350	Investment Analysis	
FIN 4450	Financial Data Analytics	
FIN 4590	Financial Case Studies	
FIN 5270	Financial Derivatives	
FIN 5460	Student Managed Investment Fund	
Total Units		**23**

Minor in Real Estate

Requirements for a minor in Real Estate (24 units)

Lower-division requirements (9)		
ACCT 2110	Introductory Accounting I	3
ACCT 2120	Introductory Accounting II	3
Three units chosen from the following courses: * Satisfies GE category B4		3
MATH 1301	Modeling with Functions	
MATH 1401	Accelerated Preparation for Calculus	
MATH 1601	Modeling with Calculus	
MATH 2210	Calculus I	
Upper-division requirements (15)		
FIN 3001	Finance I	3
FIN 3002	Finance II	3
FIN 3800	Principles of Real Estate	3
Six units chosen from:		6
FIN 3555	Business and Asian Culture	
FIN 4320	Financial Institutions and Capital Market	
FIN 4800	Real Estate Appraisal	
FIN 4810	Real Estate Practice	
FIN 4850	Legal Aspects of Real Estate	
FIN 5850	Real Estate Finance	
Total Units		**24**

Certificate in Accounting

Offered through the College of Extended and Global Education (https://cel.csusb.edu/)

This program is for students who plan to pursue a certificate, MSA or CPA but do not have the time or resources to commute to CSUSB. This certificate includes a component to prepare students for the CPA exam.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (24 units)

ACCT 2110	Introductory Accounting I	3
ACCT 2120	Introductory Accounting II	3
ACCT 3150	Accounting Information Systems and Business Ethics	3
ACCT 3720	Intermediate Accounting I	3
ACCT 3730	Intermediate Accounting II	3
ACCT 5260	Introduction to Taxation	3
ACCT 5400	Financial Statement Auditing	3
MGMT 2300	Legal Environment of Organizations	3
Total Units		**24**

Department of Information and Decision Sciences

Jack Brown Hall, Room 460
(909) 537-5723 Department of Information and Decision Sciences website (http://ids.csusb.edu)

The university offers concentrations in Business Analytics, Information Security, Information Systems and Technology, and Supply Chain and Transportation Management within the Bachelor of Arts in Administration and concentrations in Cyber Security and Global Supply Chain Management within the Master of Business Administration. Information Systems and Technology and Supply Chain Management courses are offered in support of these programs. Further information is available from the Department of Information and Decision Sciences.

Current Faculty

Anthony Coulson, Professor of Cyber & Decision Sciences
B.A. 1992, M.B.A. 1993, California State University, San Bernardino
Ph.D. 2002, Claremont Graduate School

Kamvar Farahbod, Professor of Cyber and Decision Sciences
B.A. 1976, University of Tehran
M.S. 1979, Ph.D. 1986, Oklahoma State University

Frank M. Lin, Professor of Cyber and Decision Sciences
B.A. 1981, Tatung Institute of Technology, Taiwan
M.B.A. 1986, Ph.D. 1991, State University of New York at Buffalo

Conrad Shayo, Professor of Cyber and Decision Sciences, Chair, Chair
B.C of Commerce 1981, University of Dar-Es-Salaam, Tanzania
M.B.A. 1985, University of Nairobi, Kenya
Ph.D. 1995, Claremont Graduate University

Javad Varzandeh, Professor of Cyber and Decision Sciences
B.S. 1974, National University, Iran
M.S. 1976, St. Mary's University
Ph.D. 1981, Oklahoma State University

Emeriti

Harold Dyck

Barbara Sirotnik

Robert D. Wilson

Jun (Jake) Zhu

Undergraduate Degree

Bachelor of Science

Information Systems and Technology (p. 398)
with concentrations in:
- Business Intelligence and Analytics
- Cyber Security
- National Security

Graduate Degree

Master of Science

- Business and Data Analytics (p. 472) (offered through College of Extended and Global Education)
- Cybersecurity and Analytics (p. 473) (offered through College of Extended and Global Education)
- Information Systems and Technology (p. 396) with concentrations in:
  - Business Intelligence and Analytics
  - Cyber Security
- Logistics and E-Commerce (p. 474) (offered through College of Extended and Global Education)

Minors

Business Analytics (p. 399)

Information Systems and Technology (p. 399)

Supply Chain Management (p. 399)

Certificates

Cyber Security (p. 400)

Cyber Security Professional (p. 401) (Offered through the College of Extended Global Education (https://cel.csusb.edu/))

Information Systems Management (p. 401)

Supply Chain Management (p. 401)

Master of Science in Information Systems and Technology

The Master of Science in Information Systems Technology (MSIST) prepares students for leadership positions in the areas of (1) cyber security, and (2) business intelligence and information systems technology. The main objective is to graduate students who have the ability to identify and solve business problems, manage organizational risk, secure and manage computer network systems, ensure business continuity, design and implement data warehouses, and use business intelligence tools to collect, integrate, analyze, and mine big data for the purpose of supporting managerial decision making at all control levels - front-line, managerial, and strategic. Graduates of both concentrations are able to use their analytics knowledge to fully exploit the opportunities provided by big data, i.e. nurture data-based, evidence driven organizations. Specific positions for the cyber security concentration include: information security analyst, security manager, forensics manager, computer network analyst, database administrator, and computer network architect. Specific positions for the business intelligence and information systems technology concentration include management analyst, business intelligence analyst, computer system analyst, business continuity planner, research analyst, IT project manager, and business application manager. The cyber security and business intelligence and information technology concentrations can also lead to strategic positions such as Chief Information Officer, Chief Information Security Officer, Chief Analytics Officer, Chief Data Officer, or Chief Business Architect. The program is open to all qualified students with a post-baccalaureate degree (major or minor) from an accredited college or university in any field. Students must have a keen interest in pursuing careers in cyber security, business intelligence, data analytics, and information systems technology.

The Master of Science in Information Systems & Technology (MSIST) CAPE Blended Option is a variant of the regular MSIST program. It provides qualified CSUSB Bachelor of Science in Information Systems & Technology and Bachelor of Arts in Administration, Information Systems & Technology concentration with an accelerated route to the graduate degree, allowing students to double count 9 units between the BS and MS degrees. Students take the 9 units double counting units during the junior/senior years, reducing the combined unit total for both degrees and enabling a seamless progression from undergraduate to graduate status. Admission to the MSIST CAPE Blended Option is by invitation from the Department of Information Systems & Technology.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A bachelor's degree (major or minor) from an accredited college or university;
2. Attained a minimum of a 3.0 GPA in the last 60 semester (90 quarter) units of course work (Applicants with a GPA between 2.5 and 2.99 will be considered for admission by the program as an exception);
3. If the Bachelor degree was not taught principally in English, then you must take the TOEFL or IELTS (score of 6) or complete Level 6 of CSUSB's ESL program and have official scores sent to the CSUSB Graduate Admissions Office;
4. Submission of official transcripts in sealed envelopes from all institutions attended to CSUSB Graduate Admissions Office. CSUSB students are not required to submit any CSUSB transcripts. If your transcript is not in English, then you must also send a certified literal English translation of the transcripts along with the official original-language transcripts with proof of degree to: CSUSB Graduate Admissions Office, 5500 University Parkway, San Bernardino, CA 92407;
5. Submission of an acceptable Graduate Management Admission (GMAT) or Graduate Record Exam (GRE) score by deadline for the term in which the applicant wishes to enroll. If test result is not submitted on time, admission status will be unclassified post-baccalaureate unless the GMAT or GRE requirement has been waived. Send GMAT or GRE score to MSIST Program Coordinator, Information and Decision Sciences Department, 5500 University Parkway, San Bernardino, CA 92407. Check with the MIST Program Coordinator for the current acceptable GMAT or GRE minimum score requirements;
6. An applicant may request waiver of the GMAT or GRE upon proof of completion of graduate work (e.g., J.D., Ph.D., M.D., etc.) from an accredited U.S. college or university, or upon meeting other GMAT or GRE waiver criteria as set by the MSIST Program Coordinator;
7. Submission of a 200 – 250 word statement that demonstrates academic motivation, reasons for wishing to pursue the MSIST at CSUSB, and personal qualifications that will contribute to the successful completion of the program. Although work experience is not required, at least two years of professional work experience will make an application more competitive. Any letters of recommendation or a résumé are optional. Send Statement of Purpose to: MSIST Program Coordinator, Information and Decision Sciences Department, 5500 University Parkway, San Bernardino, CA 92407;
8. Additional requirement for international students: International students must also submit a completed affidavit of financial support form. International students should follow all instructions of the application procedures and submit all necessary documentation as listed on the International Admissions website: http://international.csusb.edu/admissions.aspx;

Students who meet all entrance requirements may be admitted to the program in a conditionally classified status until the Foundation Course requirements are met. Once students meet the minimum passing level of "B" for each of the two foundation courses (IST 6110 & IST 6030) they will be advanced to classified graduate standing in the program. Conditionally classified students cannot enroll in the other 6000-level core courses (with the exception of IST 6090 if taken concurrently) unless they have written consent from the MSIST Program Coordinator.

Advancement to Candidacy

To be advanced to candidacy, a student must have:

1. Achieved fully classified standing;
2. Completed, at least 18 semester units of applicable graduate-level course work at the university, with a minimum grade point average of 3.0 ("B");
3. Completed an approved graduate program plan in consultation with an MSIST adviser;

4. Prior to advancement to candidacy, must have selected one of these concentrations (in consultation with a faculty adviser). Concentrations are available in (1) Cyber Security, and (2) Business Intelligence and Information Systems Technology.
5. Secured approval of the MSIST program coordinator of the Department of Information and Decision Sciences.

Requirements for Graduation

1. A minimum of 36 semester units of acceptable graduate-level work, consistent with the program plan (with a grade point average of 3.0), with at least 26 units completed at the university, and at least 26 semester units of 5000-6000-level course work;
2. Successful completion of the required foundation, core, and concentration courses as outlined in the program curriculum section;
3. After advancement to candidacy, students must compile an MSIST Portfolio and complete a culminating experience project course (3 units). Only students who are currently classified, have completed the required foundation and core courses, have been advanced to candidacy, have obtained approval of the MSIST program coordinator, have grades of "B" (3.0) or better, no "incomplete" grades, and are not on probation may do the project or compile an MSIST Portfolio;
   a. **IST 6960 MSIST Culminating Project (3 Units):** In consultation with a faculty adviser, complete and defend a written project based on his or her concentration before a committee of graduate faculty in his or her concentration or present the written practicum before a committee of graduate faculty in his or her concentration. The graduation writing requirement is met upon successful completion of IST 6960.
   b. **IST 6980 MSIST Portfolio (0 units)** : Successful completion of IST 6980 (MSIST Portfolio) includes compilation and submission of a portfolio of course work. The portfolio includes a reflective essay showing how the portfolio demonstrates accomplishment of the essential goals for the program. Students register for this 0-unit course after advancement to candidacy and completion of 27 units of coursework;
4. Any additional general requirements not cited above but listed on the university bulletin.
5. A "no credit" (NC) designation will be entered on the student's transcript if he/she fails the IST 6960 Culminating Project course. Students who do not receive a passing grade on the first attempt must petition the college's MIST Program Coordinator for permission to retake the culminating experience or practicum course.

Degree Requirements (36 units)

The 36 units Master of Science in Information System Technology degree program begins with two foundation courses IST 6110 and IST 6030 (6 units) which are provided to develop the students' analytical, and fundamental programming skills critical to the success in the program.

Five core courses (15 units) are required for all MSIST students to develop a deeper understanding of IST and business issues. This is followed with specialized (12 units) career track courses for Cyber Security or Business Intelligence and Information Technology through electives. Prior to advancement to candidacy, a student must select one of the two career tracks. The specific courses a student will take will be chosen by the student in consultation with an assigned faculty career track mentor. Similarly, selection of the student's MSIST Culminating Experience Project topic (3 units) will be decided by the student in consultation with an assigned faculty career track mentor.

Foundation Courses (6)		
IST 6110	Foundations of Analytics and Big Data	3
IST 6030	Foundations of Business Systems	3
Core Courses (15)		
IST 6090	Information Systems and Technology Management	3
IST 6450	Systems Analysis, Design and Implementation	3
IST 6470	Database Management and Policies	3
IST 6480	Information Networking Systems and Security	3
IST 6890	Enterprise Architecture Planning, Strategy, Security and Policy	3
Culminating Experience (3)		**3**
Concentration (12)		
Students must satisfy the requirements of one of the concentrations listed below.		12
Total Units		**36**

Culminating Experience (3 units)

IST 6960	MSIST Culminating Project	3
IST 6980	MSIST Portfolio	0
Total Units		**3**

Concentrations (12 units)

Cyber Security Career Track Concentration

(Program Code: ISTC)

IST 5250	Incident Handling and Cyber Investigation	3
IST 6700	Cybersecurity Policy and Risk Management	3
IST 6720	Cyber Defense and Vulnerability Analysis	3
IST 6730	Cybersecurity Theory and Practice	3
Total Units		**12**

Business Intelligence and Analytics Concentration

(Program Code: ISBI)

IST 6620	Business Analytics and Decision Making	3
IST 6670	Data Warehousing and Business Intelligence	3
IST 6680	Business Applications Using Web Technologies	3
Three units chosen from the following:		3
MKTG 6400	Advanced Marketing Research	

IST 5930	Seminar in Information Systems and Technology	
Total Units		**12**

Bachelor of Science in Information Systems and Technology

Requirements (64-65 units)

Total units required for graduation (120)

Requirements for the B.S. in Information Systems and Technology

Lower-division requirements (25-26)		
ADMN 2100	Applied Business Statistics	3
IST 1110	Introduction to Information Technology	1
IST 2210	Computer Networks and Security	3
IST 2310	Applications Development	3
IST 2410	Database Management for Business	3
IST 2510	Big Data Analytics	3
IST 2610	Cybersecurity	3
MGMT 2300	Legal Environment of Organizations	3
Three or four units chosen from the following courses: * Satisfies GE category B4		3-4
MATH 1301	Modeling with Functions	
MATH 1303	Stretch Modeling with Functions B	
MATH 1401	Accelerated Preparation for Calculus	
MATH 1403	Preparation for Calculus B	
MATH 1601	Modeling with Calculus	
MATH 2210	Calculus I	
Upper-division requirements (21)		
IST 3110	Management of Information Technology	3
IST 3420	Systems Analysis and Design	3
IST 4210	Advanced Computer Networks	3
IST 4310	Web Technologies	3
IST 4910	Enterprise System Administration	3
IST 5150	Project Management	3
MGMT 3500	Applied Communication	3
Concentration (18)		
Requirements for one of the following concentrations must be satisfied:		18
Total Units		**64-65**

Concentrations (18 units)

Students must earn a grade of "C" (2.0) or better in all concentration courses required to fulfill a B.S. in Information Systems and Technology

Business Intelligence and Analytics Concentration (18 units)

(Program Code: ISBI)

IST 3500	Problem Solving and Decision Making	3
IST 4510	Advanced Data Analytics	3
IST 4520	Data Mining	3
Nine units chosen from the following courses:		9
IST 3050	Enterprise Resource Planning	
IST 4320	Advanced Applications Development	
IST 4410	Advanced Database Management and Information Assurance	
IST 5050	Advanced Enterprise Resource Planning	
IST 5250	Incident Handling and Cyber Investigation	
SCM 3040	Principles of Supply Chain Management	
GEOG 5303	Advanced Topics in GIS and Spatial Techniques	
ADMN 5753	Internship	
IST 5930	Seminar in Information Systems and Technology	
IST 5951	Independent Study	
IST 5952	Independent Study	
IST 5953	Content Marketing	
Total Units		**18**

Cyber Security Concentration (18 units)

(Program Code: ISCY)

IST 4610	Cybersecurity Management	3
IST 4620	Penetration Testing and Ethical Hacking	3
IST 5250	Incident Handling and Cyber Investigation	3
IST 5930	Seminar in Information Systems and Technology	3
Six units chosen from the following courses:		6
IST 4120	Information Systems Planning and Policy	
IST 4320	Advanced Applications Development	
IST 4410	Advanced Database Management and Information Assurance	
IST 4510	Advanced Data Analytics	
IST 4520	Data Mining	
ADMN 5753	Internship	
IST 5930	Seminar in Information Systems and Technology	
IST 5951	Independent Study	
IST 5952	Independent Study	
IST 5953	Content Marketing	
Total Units		**18**

National Security Concentration (18 units)

(Program Code: ISNS)

IST 4610	Cybersecurity Management	3
IST 4620	Penetration Testing and Ethical Hacking	3
IST 5250	Incident Handling and Cyber Investigation	3

PSCI 3250	American Foreign Policy	3
PSCI 4840	National Security Policy	3
PSCI 5900	Seminar in International Relations	3
Total Units		**18**

Minor in Business Analytics

Requirements for a minor in Business Analytics (22 units)

Lower Division (10)		
IST 1110	Introduction to Information Technology	1
IST 2510	Big Data Analytics	3
ADMN 2100	Applied Business Statistics	3
IST 2410	Database Management for Business	3
Upper Division (12)		
IST 3110	Management of Information Technology	3
IST 4510	Advanced Data Analytics	3
IST 4520	Data Mining	3
IST 3500	Problem Solving and Decision Making	3
Total Units		**22**

Minor in Information Systems and Technology

Requirements for a minor in Information Systems and Technology (19 units)

Lower-division requirements (10)		
IST 1110	Introduction to Information Technology	1
9 units chosen from any IST 1000- and 2000-level courses		9
Upper-division requirements (9)		
IST 3110	Management of Information Technology	3
Six units chosen from any IST 3000-, 4000- and 5000-level courses.		6
Total Units		**19**

Minor in Supply Chain Management

Requirements for a minor in Supply Chain Management (25 units)

Lower-division requirement (7)		
ADMN 2100	Applied Business Statistics	3
IST 1110	Introduction to Information Technology	1
IST 2410	Database Management for Business	3
Upper-division requirements (18)		
SCM 3040	Principles of Supply Chain Management	3
SCM 3050	Enterprise Resource Planning	3
SCM 4700	Advanced Supply Chain and Logistics Management	3
SCM 4750	Supply Chain Business Analytics	3
SCM 5050	Advanced Enterprise Resource Planning	3
SCM 5150	Project Management	3
Total Units		**25**

Certificate in Applied ERP

The certificate will help the students develop skills in configuration and integration of cross-functional business processes including supply chain management, information systems, sales, distribution, and accounting through enterprise resource planning system. It will be a complement to the current degree programs of supply chain logistics, and transportation, information systems and technology, accounting, marketing, as well as other programs at CSUSB, to educate and train the required workforce. The Certificate entails 18 semester units.

IST 2510	Big Data Analytics	3
IST 2410	Database Management for Business	3
ACCT 2110	Introductory Accounting I	3
IST 5030	Enterprise Resource Planning	3
or SCM 5030	Enterprise Resource Planning	
IST 5050	Advanced Enterprise Resource Planning	3
or SCM 5050	Advanced Enterprise Resource Planning	
Three units chosen from the following courses: (3)		**3**
ACCT 2120	Introductory Accounting II	
SCM 4700	Advanced Supply Chain and Logistics Management	
SCM 4800	Quality Management	
MGMT 4040	Managing Technological Innovation	
MKTG 3160	Research Methods	
HRM 4550	Human Resources Management	
FIN 3001	Finance I	
PA 4620	Managing Human Resources For Public Service Organizations	
Total Units		**18**

Graduate Certificate in Applied ERP

The certificate will help the students develop skills in configuration and integration of cross-functional business processes including supply chain management, information systems, sales, distribution, and accounting through enterprise resource planning system. It will be a complement to the current degree programs of supply chain logistics, and transportation, information systems and technology, accounting, marketing, as well as other programs at CSUSB, to educate and train the required workforce. The Certificate entails 18 semester units.

IST 6110	Foundations of Analytics and Big Data	3
ACCT 6060	Accounting for Managerial Decision-Making	3
IST 6470	Database Management and Policies	3
SCM 5030	Enterprise Resource Planning	3
or IST 5030	Enterprise Resource Planning	
SCM 5050	Advanced Enterprise Resource Planning	3
or IST 5050	Advanced Enterprise Resource Planning	
Three units chosen from the following courses: (3)		**3**
SCM 6070	Managing the Supply Chain	
MKTG 6400	Advanced Marketing Research	
ACCT 6100	Financial Accounting from the User Perspective with Data Analytics in Accounting	
MGMT 6410	Human Resource Management	
FIN 6774	Financial Statement Analysis I	
PA 6630	Public Budgeting and Finance	
Total Units		**18**

Certificate in Cyber Security

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (25 units)

IST 1110	Introduction to Information Technology	1
IST 2210	Computer Networks and Security	3
IST 2610	Cybersecurity	3
IST 3110	Management of Information Technology	3
IST 4210	Advanced Computer Networks	3
IST 4610	Cybersecurity Management	3
A minimum of nine units chosen from:		9
IST 2110	Information Technology	
IST 2310	Applications Development	
IST 4120	Information Systems Planning and Policy	
IST 4310	Web Technologies	
IST 4620	Penetration Testing and Ethical Hacking	
IST 4910	Enterprise System Administration	
IST 5250	Incident Handling and Cyber Investigation	
IST 5930	Seminar in Information Systems and Technology	
IST 5951	Independent Study	
IST 5952	Independent Study	
IST 5953	Content Marketing	
Total Units		**25**

Certificate in Cyber Security Professional

Offered through the College of Extended and Global Education (https://cel.csusb.edu/)

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (18 units)

IST 6090	Information Systems and Technology Management	3
IST 6480	Information Networking Systems and Security	3
IST 6720	Cyber Defense and Vulnerability Analysis	3
IST 6730	Cybersecurity Theory and Practice	3
IST 5250	Incident Handling and Cyber Investigation	3
IST 6890	Enterprise Architecture Planning, Strategy, Security and Policy	3
Total Units		**18**

Any of the course prerequisites in the certificate program can be waived with instructor's consent.

Certificate in Information Systems Management

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (22 units)

Lower-division requirements (10)		
IST 1110	Introduction to Information Technology	1
Nine units chosen from any IST 1000- and 2000- level course.		9
Upper-division requirements (12)		
IST 3110	Management of Information Technology	3
Nine units chosen from any IST 3000-, 4000- and 5000- level courses		9
Total Units		**22**

Certificate in Supply Chain Management

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (25 units)

ADMN 2100	Applied Business Statistics	3
IST 1110	Introduction to Information Technology	1
IST 2410	Database Management for Business	3
SCM 3040	Principles of Supply Chain Management	3
SCM 3050	Enterprise Resource Planning	3
SCM 4700	Advanced Supply Chain and Logistics Management	3
SCM 4750	Supply Chain Business Analytics	3
SCM 5050	Advanced Enterprise Resource Planning	3
SCM 5150	Project Management	3
Total Units		**25**

Department of Management

Jack Brown Hall, Room 461
(909) 537-5731 Department of Management website (http://management.csusb.edu)

The university offers concentrations in Entrepreneurship, Hospitality Management, Human Resource Management, International Business, and Management within the Bachelor of Arts in Administration (p. 383) and Management within the Master of Business Administration (p. 381).

Human Resource Management and Management courses are offered in support of these programs. Each of the concentration areas is briefly profiled below:

Human Resource Management - People are a firm's most critical resource. Our Human Resource Management program exposes students to the key knowledge and current practices that prepare them for a career in helping organizations find the right talent, develop that talent, and manage them effectively to ensure that the firm's goals are achieved.

Management - Any successful career will involve a role in managing people and resources for an organization. Effective management is critical for an organization to meet its objectives and for an individual's career to continue to develop upward. Management is not innate – it is a skill that can be acquired and developed. Our program teaches students the knowledge and skills to productively with other people, build and coordinate capable teams, and assume the challenges and responsibilities of leadership in a global economy.

Current Faculty

Helena Addae, Professor of Management
B.A. 1980,Ph.D. 2003, Concordia University
M.B.A. 1983, McGill University, Montreal

Melissa Bakeman, Lecturer in Management
B.A. 1996, M.A. 2001, California State University, San Bernardino

Bailey Benedict, Assistant Professor of Management
B.A. 2015, University of Wisconsin
M.A. 2021, University of Wisconsin
Ph.D. 2021, Purdue University

Maggie Boyraz, Professor of Management
B.S. 2001, Silesian University
M.A. 2006, Brooklyn College - University of New York
Ph.D. 2016, Rutgers State University

Elizabeth Castillo, Assistant Professor of Management
B.A. 1985, M.A. 2010, Ph.D. 2016, University of San Diego

Ying Cheng, Associate Professor of Management
B.A. 2011, Southwest Jiaotong University
M.A. 2013, Michigan State University
Ph.D. 2018, Michigan State University

Jacqueline Coyle-Shapiro, Professor of Management
B.A. 1984, University College Dublin
M.B.A. 1989, University College Dublin
Ph.D. 1996, London School of Economics

Patrick Flaherty, Lecturer in Management
MBA 1985, California State University, San Bernardino

Vipin Gupta, Professor of Management
B.A. 1988, Shri Ram College of Commerce, Delhi University
M.B.A. 1990, Indian Institute of Management, Ahmedabad
Ph.D. 1998, Wharton School, University of Pennsylvania

Matthew Habich, Lecturer in Management
M.S. 1995, Golden Gate University

Crystal Xiaoyu Huang, Professor of Management
B.S. 2011, Cornell University
Ph.D. 2016, University of Toronto

Yongseok Jang, Professor of Management
B.A. 2001, Inha University
M.A. 2004, University of Florida
Ph.D. 2009, University of Florida

Ann Marie Johnson, Professor of Management
B.A. 1995, Northern Michigan University
J.D. 1998, University Of Cincinnati
Ph.D. 2011, University of Delaware

Ranfeng Qiu, Professor of Management, Chair, Chair
B.S. 2000, University of International Business and Economics
M.A. 2005, Indiana University, Bloomington
Ph.D. 2010, Rutgers University, New Jersey

Craig Seal, Professor of Management
B.A. 1991, Santa Clara University
M.A. 1995, Boston College
Ph.D. 2007, George Washington University

Zhonghui Wang, Associate Professor of Management
B.A. 1991, Northern Jiaotong University
M.B.A. 2004, Georgia Institute of Technology
M.S.F. 2008, Boston College
Ph.D. 2013, Purdue University

Jing Zhang, Professor of Management
B.A. 2009, Shandong Normal University
M.A. 2014, University of Houston
Ph.D. 2016, University of Houston

Emeriti

Joe Bas

Gabriel R. Bassiry

John S. Chaney

Breena Coates

Foad Derakhshan

Donald A. Drost

Sue Greenfeld

Lee W. Hanson

Joan Kritzberg

Steven M. Levy

Janice Loutzenhiser

Patrick McInturff

Clark Molstad

Gary D. Patterson

Lloyd E. Peake

Kathie Pelletier

Ernesto M. Reza

James Rogers

Elisabeth Ryland

Christine Schalow

Graduate Degree

Master of Science

- Human Resource Management (p. 403)
- Industrial & Engineering Management (p. 404)

Minors

- Human Resource Management (p. 405)
- Management (p. 405)

Master of Science in Human Resource Management

The Master of Science (MS) in Human Resource Management (HRM) program offers students a comprehensive graduate education that prepares them for careers in human resources. The 30-unit program will provide coursework and experiential learning activities and expose students to the foundational concepts of human resource management, including managing human capital, strategic human resources, compensation, employee relations, employment law, training & development, and workplace planning. The program will have a final, culminating experience, that will help prepare students to sit for the SHRM certification exam.

Blended Program

Students enrolled in the CAPE Blended BA in Administration, Human Resource Management Concentration + MS in Human Resource Management program can count up to 12 units (4 classes) from the courses below, taken as part of the BA in Administration, Human Resource Management Concentration, toward the MS in Human Resource Management:

HRM 5560	Compensation and Performance	3
HRM 5570	Strategic Human Resource Management	3
HRM 5580	California Human Resources	3
HRM 5590	International Human Resources	3
HRM 5930	Contemporary Topics in Human Resources Management	3
ADMN 5753	Internship	3
Total Units		**18**

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to the MS in HRM degree program are:

1. Bachelor's Degree: A bachelor’s degree from an accredited college or university, with required minimum GPA of 3.0.
2. Personal Statement: A statement that provides insight on the student's motivation to join the program, how the student plans on using the degree to further his/her professional goals, the personal qualifications that will contribute to successful completion of the program, and the responsibility of organizations to create value for society, beyond just profit.
3. English Proficiency for International Students: All international applicants who have not completed three years of full-time study at the secondary or post-secondary level where English was the language of instruction must also achieve an acceptable score.
4. Resume: Submission of a current resume.
5. Letter of Recommendation: One (1) letter of recommendation is required that attests to the applicant's intellectual and professional aptitude;
6. Interview: Each applicant will be required to participate in a brief interview with the MS HRM program coordinator and/or faculty.

Advancement to Candidacy

To be advanced to candidacy, a student must have:

1. Achieved classified standing.
2. Successfully completed 12 units with a minimum of a 3.0 grade point average in the program, including the following core classes: ADMN 6020, MGMT 6010, and HRM 6410.
3. Completed an approved MS HRM program plan in consultation with the designated faculty advisor.
4. Secured approval of the Graduate director in charge of the HRM program.

Requirements for Graduation

1. A grade point average of 3.0 ("B") in all course work taken after admission to conditionally classified or classified status, and grades of "C" (2.0) or better in all courses in the program.
2. A minimum of 30 semester units.
3. At least 70% of the units for the degree (21 units, 7 classes) are required to be completed at California State University, San Bernardino.
4. Successful completion (a grade of "B" (3.0) or better) of ADMN 6020 meets the graduate writing requirement.
5. Successful completion (a grade of "B" (3.0) or better) of HRM 6983 meets the culminating experience requirement.
6. Any additional general requirements not cited above but listed in Graduate Degree Program Requirements.

Degree Requirements (30 units)

ADMN 6020	Advanced Managerial Communications	3
MGMT 6010	Organization Theory and Behavior	3
HRM 5570	Strategic Human Resource Management	3
HRM 6410	Human Resource Management	3
15 units chosen from the following courses:		15
ADMN 5753	Internship	
HRM 5580	California Human Resources	
HRM 5590	International Human Resources	
HRM 5930	Contemporary Topics in Human Resources Management	
HRM 5953	Independent Study	
MGMT 5050	Managing Across Borders	
MGMT 6550	Leadership as Art and Science	
MGMT 6850	Strategic Management	

3 units chosen from any JHBC graduate level course (5000 level or above)	
Culminating Experience (3)	**3**
Total Units	**30**

Culminating Experience (3 units)

HRM 6983	Culminating HR Experience	3

Master of Science in Industrial and Engineering Management

Pending Office of the Chancellor approval

The Master of Science in Industrial and Engineering program is designed to equip students with the knowledge and skills necessary for effective planning and management of industrial and engineering operations. Through a multidisciplinary curriculum, students receive comprehensive instruction in areas such as engineering economy, cost and resource management, industrial and organizational leadership, information systems, mathematical modeling and optimization, operations research. legal and ethical dimensions of engineering management, as well as commercialization of technology and innovation.

Admission to the Program

Suitability for admission to the program will be based on an examination of the entire application package. In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. **Bachelor's Degree**: A bachelor's degree from an accredited college or university, with required minimum GPA of 2.7 calculated using the entire degree or the last 60 semester (90 quarter) units, which may include post baccalaureate work. Students with GPA lower than 2.7 but higher than 2.5 may be permitted to join with an acceptable study and career development plan submitted at the time of the application.
2. **Resume**: Submission of a current resume.
3. **Math proficiency:** Completing at least one (1) College Calculus.
4. **English Proficiency for International Students**: All international applicants who have not completed three years of full-time study at the secondary or post-secondary level where English was the language of instruction must also achieve an acceptable score, ratified by the College Curriculum Committee, and in alignment with the Office of Graduate Studies requirements, on the Test of English as a Foreign Language (TOEFL), or the IELTS exam, or must complete CSUSB's ESL program. The current minimum acceptable TOEFL score is 550/PBT, 213/CBT, 79-80/IBT taken within the past two years; IELTS score of 6.5 taken within the past two years; or complete level 4 of CSUSB's Intensive English Program

Advancement to Candidacy

1. Achieved classified standing.
2. Successfully completed the foundation MSIEM core courses (SCM 5150, ACCT 6060 and MGMT 6010);
3. Successfully completed 12 units with a minimum of a 3.0 grade point average in the program;
4. Completed an approved graduate program plan in consultation with the MSIEM faculty advisor;
5. Secure final approval of the JHBC graduate office director.

Graduation Requirements

1. A minimum of 36 semester units of acceptable graduate-level work, consistent with the MSIEM program plan (with a minimum overall GPA of 3.0);
2. Successful completion of the required and elective courses as shown in the "Degree Requirements";
3. At least 70% of the units for the degree completed at California State University at San Bernardino;
4. A grade point average of 3.0 ("B") in all course work taken after admission to conditionally classified or classified status, and grades of "C" (2.0) or better in all courses in the program;
5. Successful completion of the Capstone course ADMN 6960 meets the culminating experience requirement.
6. Any additional general requirements not cited above and listed in MSEI Graduate Degree Program Requirements.

A "no credit" (NC) designation will be entered on the student's transcript if he/she fails the Capstone Culminating Experience courses. Students who do not receive a passing grade on the first attempt must petition the college's director of graduate studies for permission to retake the culminating experience.

Degree Requirements (36 units)

ACCT 6060	Accounting for Managerial Decision-Making	3
SCM 5150	Project Management	3
SCM 6070	Managing the Supply Chain	3
MGMT 6010	Organization Theory and Behavior	3
MGMT 6300	Legal and ethical aspects of industrial management	3
MGMT 5590	Leading Teams in Organizations	3
ENTR 5410	Commercializing Entrepreneurial Innovation	3
IST 6090	Information Systems and Technology Management	3
Elective courses (9)		
Nine units chosen from the following courses:		9
MGMT 6850	Strategic Management	
MGMT 5040	Technological Innovation Management	
MKTG 5160	Marketing Data Analytics	
SCM 6600	Transportation and Supply Chain Management	
IST 6780	Risk Management	
ENTR 6250	New Venture Product Development	
Culminating Experience (3)		
ADMN 6960	Industrial and Engineering Management	3
Total Units		**36**

ADMN 6960	Industrial and Engineering Management	3
Total Units		**3**

A graduate capstone course ADMN6960 will be required in the last semester of the program.

The course learning objectives are:

1. Apply product and project management tools and methodologies to plan schedule and control engineering management projects.
2. Demonstrate effective collaboration leadership and communication skills in multidisciplinary team setting.
3. Analyze complex industrial engineering problems using techniques and methods.
4. Understand key cost-benefit factors and financial evaluations of the projects and develop mitigation strategies.
5. Recognize ethical, legal and social implications of the engineering projects and incorporate sustainable practices.

Minor in Human Resource Management

Requirements for a minor in Human Resource Management (18 units)

One Required HRM Course (3)		**3**
HRM 4550	Human Resources Management	
Nine units chosen from the following courses: (9)		**9**
HRM 4560	Staffing	
HRM 4570	Industrial and Labor Relations	
HRM 4580	Employment Law	
HRM 4600	Compensation and Performance	
MGMT 3020	Organizational Behavior	
or PSYC 3354	Organizational Psychology	
ADMN 2100	Applied Business Statistics	
or PSYC 2210	Psychological Statistics	
Six units chosen from the following courses: (6)		**6**
HRM 4560	Staffing	
HRM 4570	Industrial and Labor Relations	
HRM 4580	Employment Law	
HRM 4590	Human Resources Development	
HRM 4600	Compensation and Performance	
HRM 5570	Strategic Human Resource Management	
HRM 5915	Contemporary Topics in Human Resources Management	
HRM 5930	Contemporary Topics in Human Resources Management	
ADMN 5753	Internship	
ADMN 5930	Seminar in Administration	
HSCI 3581	Occupational Safety	
HSCI 4036	Human Resource Management in Health Care	
MGMT 2300	Legal Environment of Organizations	
MGMT 4520	Leadership and Followership	
MGMT 4910	Strategic Management	
PA 4620	Managing Human Resources in the Public Sector	
PSYC 3355	Industrial Psychology	
PSYC 5540	Work, Retirement, and Leisure	
PSYC 5582	Diversity, Work, and Family	
PSYC 5583	Occupational Health Psychology	
Total Units		**18**

NOTE: Students majoring in Administration with a concentration in Human Resource Management may not minor in Human Resource Management.

Minor in Management

The Minor in Management is designed to provide students from non-business majors with a solid foundation in the principles and practices of management. This program equips students with essential skills in leadership, organizational behavior, strategic planning, and decision-making that are applicable across a wide range of industries and career paths.

Minor Requirements (18 units)

Required Courses: (15)		
MGMT 3020	Organizational Behavior	3
MGMT 3500	Applied Communication	3
MGMT 3350	Business, Ethics, and Society	3
MGMT 4520	Leadership and Followership	3
MGMT 4910	Strategic Management	3
Three units chosen from the following courses:		
MGMT 2300	Legal Environment of Organizations	
MGMT 3300	Legal Environment of Business	
MGMT 4020	Organizational Change and Disruptions	
MGMT 4030	Managing Negotiations	
MGMT 4500	Interpersonal Relationships at the Workplace	
MGMT 5050	Managing Across Borders	
MGMT 5040	Technological Innovation Management	
MGMT 5590	Leading Teams in Organizations	
MGMT 4920	Future of Work and Management	
MGMT 5930	Contemporary Topics in Management	
Total Units		**15**

NOTE: Students majoring in Administration with a concentration in Management may not minor in Management. Students must earn a grade of "C" (2.0) or better in all courses required to fulfill the minor in Management.

Department of Marketing

Jack Brown Hall, Room 458
(909) 537-5749 Department of Marketing website (http://marketing.csusb.edu)

The university offers a concentration in Marketing and Sports and Entertainment Marketing within the Bachelor of Arts in Administration (p. 379) and a concentration in Marketing within the Master of Business Administration (p. 379). Marketing courses are offered in support of these programs. Further information is available from the Department of Marketing.

The department offers the following programs in addition to Marketing and Sports and Entertainment marketing:

International Business and Hospitality Management.

In today's business world, growing numbers of U.S. companies both large and small are getting involved in international marketing. Because of this increased involvement in international business, marketing students are encouraged to participate in the California State University's International Program (p. 14).

Current Faculty

Haakon Brown, Professor of Marketing, Chair, Chair
B.S. 1995, Columbia University
M.B.A. 2001, Massachusetts Institute of Technology
Ph.D. 2009, Northwestern University

Ari Kim, Assistant Professor of Marketing
B.B.A. 2005, M.S. 2007, Yonsei University, South Korea
Ph.D. 2017, University of Florida

Melilka Kordrostami, Professor of Marketing
B.S. 2006, M.B.A. 2009, Sharif University of Technology
Ph.D. 2017, Iowa State University

Eric J. Newman, Professor of Marketing
B.S. 1991, M.B.A. 1992, University of Montana
Ph.D. 2001, Washington State University

Sung Hee Paik, Assistant Professor of Marketing
B.S. 2012, B.B.A. 2012, M.S. 2014, Yonsei University, South Korea
Ph.D. 2020, University of Oregon

Michelle Russen, Assistant Professor of Marketing
B.S. 2015, M.S. 2018, University of South Florida
Ph.D. 2022, University of Houston

Jason Ryan, Professor of Marketing
B.A. 1995, Swarthmore College
M.B.A. 2000, Washington University
A.M. 2002, Washington University
Ph.D. 2007, University College Dublin

Chanho Song, Professor of Marketing
B.S. 2004
M.B.A. 2010, University of California, San Diego
Ph.D. 2015, Kent State University

Emeriti

Mike Boorom

Frederick Hebein

Jotindar S. Johar

Norton E. Marks

Nabil Y. Razzouk

Arthur Saltzman

Victoria A. Seitz

Undergraduate Degrees

Bachelor of Arts

- Tourism and Hospitality Management (p. 406)

Minors

- Hospitality Management (p. 407)
- International Business (p. 407)
- Marketing (p. 407)
- Sports and Entertainment Marketing (p. 408)

Bachelor of Arts in Tourism & Hospitality Management

The Bachelor of Arts in Tourism and Hospitality Management degree completion program is designed to equip students with the skills and abilities that prepare them for management positions in the world's largest and most exciting industry. The primary goal of the new B.A. in Tourism and Hospitality Management is to expand opportunities for community college students in the Coachella Valley and Inland Empire to achieve a bachelor's degree. Emphasizing experiential learning and practical applications, this degree blends operations, marketing, and customer service principles with analytics, digital marketing, and customer experience management techniques. The curriculum provides numerous opportunities for hands-on activities, and professional development during the gala scholarship dinner, trade show trips, finance technology professionals club, and study abroad in Italy. This degree completion program is designed to attract graduating culinary arts and hospitality management students from community colleges, or students from 4-year institutions with 60 or more units who wish to transfer to CSUSB to earn a degree in tourism and hospitality management.

Admission requirements:

Generally, applicants will qualify for consideration as upper division transfer admission if they meet all of the following requirements:

- Cumulative grade point average of at least 2.0 in all transferable units attempted
- In good standing at the last college or university attended
- Completed at least sixty (60) transferable semester (90 quarter) units of college-level coursework with a grade point average of 2.0 or higher and a grade of C or better in each course used to meet the CSU general education requirements in written communication, oral communication, critical thinking, quantitative reasoning, e.g. mathematics.

The Program will be restricted to upper-division transfer students from culinary arts or hospitality management areas. The CSUSB hospitality

management courses will be delivered via an in-person format with a synchronous delivery option available, consisting of only upper-division courses. Students can transfer an equivalent of up to 70 semester units into CSUSB consisting of 40 units GE and 30 units from the culinary arts or hospitality management coursework. All admitted students must complete an additional total of 50-semester units minimum at CSUSB to meet the graduation requirement of 120 units.

Requirements (27 units)

Total units required for graduation: 120

Requirements for a B.A. in Tourism and Hospitality

The BA in Tourism and Hospitality Management enables the transfer of up to 70 units of coursework and requires 50 units of upper-division coursework to complete the degree. Upper-division courses consist of 9 units in GEs, 14 units in free electives, and 27 units in tourism and hospitality management coursework.

HOSM 1600	Restaurant Management	3
HOSM 3700	Customer Relationship Management	3
HOSM 3900	Tourism and Sustainable Development	3
HOSM 4500	Hotel Operations Tactics and Strategies	3
HOSM 5300	Meetings and Event Planning	3
12 units chosen from the following courses:		12
HOSM 2500	Introduction to Hospitality and Tourism	
HOSM 3800	Global Issues in Hospitality Management	
MKTG 5250	Sports and Entertainment Marketing	
HOSM 5400	The Art and Science of Wine	
MKTG 5730	Festival and Entertainment Management	
MKTG 5740	Tribal Gaming: Cultural and Political Context	
MKTG 5750	Hospitality Internship I	
MKTG 5752	Hospitality Internship II	
HRM 4550	Human Resources Management	
Total Units		**27**

Minor in Hospitality Management

Requirements for a minor in Hospitality Management (18 units)

Required Courses: (18)

HOSM 1600	Restaurant Management	3
HOSM 2500	Hospitality and Tourism Management	3
HOSM 3600	Meetings and Event Planning	3
HOSM 4500	Hotel Operations Tactics and Strategies	3
MKTG 5750	Hospitality Internship I	1
MKTG 5752	Hospitality Internship II	2
HRM 4550	Human Resources Management	3
Total Units		**18**

Minor in International Business

Requirements for a minor in International Business (18 units)

MKTG 3050	Marketing Principles	3
MKTG 4700	International Marketing	3
MKTG 4760	Strategic Issues in International Business	3
MGMT 5050	Managing Across Borders	3
Three units of an approved foreign language. *		3
Three units chosen from the any of the following courses:		3
ADMN 5753	Internship	
ADMN 5910	Seminar in Administration	
ADMN 5920	Seminar in Administration	
ADMN 5930	Seminar in Administration	
ADMN 6910	Advanced Topics in Administration	
ADMN 6920	Advanced Topics in Administration	
ADMN 6930	Advanced Topics in Administration	
ANTH 3610	Globalization in Crisis	
ARAB 3117	Advanced Arabic for Professional Communication	
COMM 2201	Intercultural Communication	
ECON 3318	International Economics	
ECON 3780	Multinational Corporations	
ENTR 5260	Global Entrepreneurship	
FIN 3555	Business and Asian Culture	
FIN 4330	International Finance	
FREN 4450	French Means Business	
HSCI 3203	Global Health	
PSCI 5400	Seminar in Comparative Politics	
PSCI 5900	Seminar in International Relations	
SCM 4450	International Logistics	
SPAN 4401	Spanish for the Professions	
Total Units		**18**

* This program has a foreign language requirement. Students are required to take three units in a foreign language. Students may select courses in any of the following languages offered at CSUSB: Arabic, Chinese, French, Japanese, Korean, Portuguese, Spanish, American Sign Language, Cahuilla, Luiseño, and Serrano. Additional foreign languages may be approved by the Chair of the Department of Marketing. Courses must not be taught in English. Students wishing to take 3 units in a foreign language not offered at CSUSB may request approval from the Chair of the Department of Marketing.

Minor in Marketing

Requirements for a minor in Marketing (21 units)

Required Courses: (9)

MKTG 3050	Marketing Principles	3
MKTG 3160	Research Methods	3

MKTG 4100	Consumer Behavior	3
Twelve units from the following courses: (12)		**12**
MKTG 4160	Marketing Research	
MKTG 4200	Marketing Communications	
MKTG 4300	Professional Selling and Sales Management	
MKTG 4460	Integrated Marketing Communications	
MKTG 4600	Retailing and Ecommerce	
MKTG 4700	International Marketing	
MKTG 4750	Digital Marketing	
MKTG 4760	Strategic Issues in International Business	
MKTG 4960	Strategic Marketing Planning	
MKTG 5160	Marketing Data Analytics	
MKTG 5250	Sports and Entertainment Marketing	
MKTG 5600	Experiential Marketing	
Total Units		**21**

Minor in Sports and Entertainment Marketing

Requirements for a minor in Sports Entertainment Marketing (18 units)

MKTG 3050	Marketing Principles	3
MKTG 4300	Professional Selling and Sales Management	3
MKTG 5250	Sports and Entertainment Marketing	3
MKTG 5500	Advanced Sports Marketing Planning and Strategy	3
MKTG 5550	Advanced Entertainment Marketing Planning and Strategy	3
Three units chosen from the following courses: (3)		**3**
MKTG 3160	Research Methods	
MKTG 4100	Consumer Behavior	
MKTG 4160	Marketing Research	
MKTG 4200	Marketing Communications	
MKTG 5930	Seminar in Marketing	
ADMN 5753	Internship	
Total Units		**18**

Department of Public Administration

Jack Brown Hall, Room 456
(909) 537-5758 Department of Public Administration website (http://pa.csusb.edu)

Public Administration trains students for public service in government and nonprofit organizations.

At the Undergraduate level the university offers a a concentration in Public Administration within the Bachelor of Arts in Administration (p. 383), as well as minors in Public Administration and Nonprofit Management.

At the Graduate level, the university offers a Master of Public Administration (https://www.csusb.edu/mpa/) degree with concentrations in Leadership, Public Financial Management, Nonprofit Management and Cybersecurity.

The department also partners with the School of Social Work to offer Concurrent Masters Degrees in Social Work and Public Administration. (p. 377)

Current Faculty

Ki Eun Kang, Assistant Professor of Public Administration
LL.B. Kyung Hee University, Seoul, South Korea
M.P.A., LL.M. University of Missouri – Columbia
Ph.D. 2019, Binghamton University - State University of New York

Thomas McWeeney, Lecturer in Public Administration
B.A. 1973, California State University, San Diego
M.A. 1977, Ph.D. 1982, Georgetown University

Pamela Medina Gutierrez, Associate Professor of Public Administration
B.A. 1990, Florida Atlantic University
M.A. 2010 University of Central Florida
Ph.D. 2015, University of Central Florida

Ya (Anna) Ni, Professor of Public Administration, Associate Dean, Associate Dean
B.A. 1993, University of Beijing, China
M.A. 2001, Iowa State University
Ph.D. 2007, Syracuse University

Sharon Pierce, Associate Professor of Public Administration
B.A. 2013, California State University, San Bernardino
M.P.A. 2014, California State University, San Bernardino
Ph.D. 2017, California State University, San Bernardino

Robert Stokes, Professor of Public Administration, Chair, Chair
B.S. Millersville University of Pennsylvania
M.A. Temple University
Ph.D. Rutgers University-New Brunswick

Emeriti

Jonathan Anderson

David L. Baker

Otto Chang

C. Charles Christie

Michael Clarke

Kimberly Collins

Guenther G. Kress

Audrey Mathews

Anthony Silard

Brian Watts

Clifford Young

Graduate Degrees

Master

Public Administration (p. 409)
with concentrations in:

- Cyber Security
- Leadership
- Public Financial Management
- Nonprofit Leadership

Social Work and Public Administration Concurrent Degrees (p. 377)

Undergraduate Degrees

Bachelor of Arts

- Public Service (p. 412)

Minors

- Nonprofit Management (p. 412)
- Public Service (p. 412)

Master of Public Administration

The Master of Public Administration (MPA) is designed to prepare students for careers in public and non-profit service. The degree provides the student with a generalist perspective of public administration, including professional skills such as ethical leadership and management; strategic planning and performance evaluation; budgeting and finance; evidenced-based decision-making; human resource management; the public policy process; and a broad understanding of the democratic governance system.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to the MPA degree program are:

1. A bachelor's degree from an accredited college or university;
2. A grade point average of 3.0 or above for the last 60 semester units (or 90 quarter units) of course work including post-baccalaureate courses. Students with a gpa of 2.50-2.99 may be admitted in consideration of their relevant professional experience and overall application.
3. Public Service employment experience. Students without public service employment experience are advised to complete an internship before being advanced to candidacy.

4. Academic motivation and professional goals and qualifications demonstrated through submission of a 500 word statement of purpose.

No more than 9 semester units of graduate credit earned in unclassified/ conditionally classified standing may be counted toward meeting the requirements for the degree.

Advancement to Candidacy

To be advanced to candidacy, a student must have:

1. Completed the Graduate Entrance Writing requirement through passing the writing intensive PA 6110 with at least a "B-" grade.
2. Completed at least 15 semester units of applicable graduate-level course work at the university, with a minimum grade point average of "B" (3.0);
3. Completed an approved graduate program plan in consultation with an MPA adviser.
4. Have evidence of Public Service employment experience or completion of PA 6750 Internship
5. Secured the approval of candidacy from the MPA Graduate Director and the Dean of Graduate Studies.

Requirements for Graduation

1. 36 semester units consistent with the program plan, with at least 27 units completed at CSUSB;
2. Successful completion of the required core, selected concentration and required elective courses as outlined in the curriculum section;
3. A cumulative grade point average of "B" (3.0) in MPA course work, grades of "C" (2.0) or better in all courses applied to the degree, and grade of "B-" or better in PA 6110;
4. Completion of the Public Administration Capstone PA 6550 with a "B" (3.0) or higher grade.
5. Satisfactory completion of one semester of PA 6985 Professional Development Seminar.
6. Completion of PA 6980 MPA Culminating Experience.

Degree Requirements (36 units)

PA 6030	Research Methods in Administration	3
PA 6110	Public Administration Theory and Practice	3
PA 6620	Human Resource Management in the Public Sector	3
PA 6630	Public Budgeting and Finance	3
PA 6640	Management of Public Organizations	3
PA 6800	Public Policy Analysis	3
PA 6985	Professional Development Seminar * Must be taken during the first two semesters of the program.	0
Culminating Experience (3)		**3**
Concentration (15)		
Students must satisfy the requirements of one of the concentrations listed below		15
Total Units		**36**

Students may not include more than 9 semester units in transfer credit from other colleges. California State University, San Bernardino will not consider transfer credit course work from any institution which will not accept that work in its own advanced degree program.

Culminating Experience (3 units)

PA 6550	Capstone: Strategic Planning for Government and Nonprofit Organizations	3
PA 6980	MPA Culminating Experience	0
Total Units		**3**

Concentrations (15 units)

Community Planning & Management Concentration

(Program Code: PACP)

PA 5200	Sustainability Policy and Management	3
PA 5210	Community Planning and Management	3
PA 5640	Economic and Community Development	3
Two electives (6 units) selected from any 5000 or 6000 level PA non-core class.		6
Total Units		**15**

Cyber Security Concentration

(Program Code: PACS)

IST 6090	Information Systems and Technology Management	3
IST 6470	Database Management and Policies	3
IST 6700	Cybersecurity Policy and Risk Management	3
IST 6730	Cybersecurity Theory and Practice	3
IST 6890	Enterprise Architecture Planning, Strategy, Security and Policy	3
Total Units		**15**

Human Resources Concentration

(Program Code: TBD)

PA 5190	Managing Diversity in Organizations	3
PA 5570	Public Sector Labor Relations	3
HRM 5570	Strategic Human Resource Management	3
HRM 5580	California Human Resources	3
3 units chosen from any 5000-6999 HRM or PA course not listed in the core requirements		3
Total Units		**15**

Leadership Concentration

(Program Code: PALD)

PA 5010	Ethical Public Service Leadership	3
PA 6500	Government in the Digital Age	3
PA 6720	Administrative Regulation	3

Two electives (6 units) selected from any 5000 or 6000 level PA non-core class.	6
Total Units	**15**

Public Financial Management Concentration

(Program Code: PAFM)

PA 6150	Public and Nonprofit Financial Management	3
PA 6300	Program Evaluation	3
PA 6610	Principles of Public and Nonprofit Procurement	3
Two electives (6 units) selected from any 5000 or 6000 level PA non-core class.		6
Total Units		**15**

Nonprofit Leadership Concentration

(Program Code PANP)

PA 5140	Nonprofit Management and Leadership	3
PA 5150	Nonprofit Staff and Volunteer Management	3
PA 5170	Nonprofit Fundraising and Grantwriting	3
PA 6300	Program Evaluation	3
One electives (3 units) selected from any 5000 or 6000 level PA non-core class.		3
Total Units		**15**

Master of Social Work and Master of Public Administration Concurrent Degrees

College of Social and Behavioral Sciences & Business and Public Administration

School of Social Work, Social & Behavioral Sciences Building, Room 423 (909) 537-5501
Department of Public Administration, Jack Brown Hall, Room 456 (909) 537-5758

The Department of Public Administration and the School of Social Work offer a graduate program leading to Master of Social Work/Master of Public Administration Concurrent Degrees. The degrees are intended for those with an interest in and promise for a career in social services that will lead to top administrative roles. Degree holders will have skills and knowledge to facilitate well-being and change at all system levels.

Prospective concurrent degrees students must be accepted under the admission procedures of each program. The MSW program requires a separate application available through the School of Social Work which will include the additional statement instructions and the Plan of Study form for the concurrent MSW/MPA degrees.

No degree will be conferred until the requirements of the both degrees are fulfilled.

Admission to the Program

To be considered for the concurrent MSW/MPA degrees, prospective students must select the concurrent MSW/MPA degrees in CSU Apply and be accepted to both the MSW and MPA programs. Prospective students must submit a copy an additional application statement with their MSW applications as directed in CSU Apply.

Advancement to Candidacy

Students must complete advancement to candidacy forms in both the MSW and MPA programs.

To be advanced to candidacy, a student must have:

1. Achieved classified status;
2. Satisfied the general university requirements for advancement to candidacy;
3. Selected a thesis committee and gained approval of the thesis topic by the thesis committee if a thesis is chosen;
4. Completed with a grade point average of 3.0 (“B”) at least 30 semester units of course work in the MSW and 15 semester units in the MPA;
5. Demonstrated academic and professional competence in field and classroom;

Requirements for Graduation

1. A minimum of 73 semester units, 52 units must be completed at this university;
2. Fulfilment of all degree requirements;
3. A grade point average of at least 3.0 (“B”) in both the MSW and the MPA courses; Completion of culminating research project or thesis (SW 6014 completed);
4. Complete PA 6550 Public Administration Capstone with a B or better;
5. Successful passing of the MPA Comprehensive Exam PA 6980;
6. the Graduate Writing Assessment Requirement is met upon successful completion of SW 6042.

Concurrent Degrees Requirements (73 units)

(Program Codes: SWPA and PASW)

PA 6110	Public Administration Theory and Practice	3
PA 5140	Nonprofit Management and Leadership	3
PA 6620	Human Resource Management in the Public Sector	3
PA 6630	Public Budgeting and Finance	3
PA 6640	Management of Public Organizations	3
PA 6720	Administrative Regulation	3
SW 6041	Human Behavior in the Social Environment: Lifespan Development	3
SW 6042	Human Behavior in the Social Environment: Critical Topics	3
SW 6011	Social Work Research I	3
SW 6012	Social Work Research II	2
SW 6013	Research Project I	1
SW 6021	Generalist Micro Practice I	3

SW 6022	Generalist Micro Practice II	3
SW 6023	Advanced Generalist Micro Practice I	3
SW 6024	Advanced Generalist Micro Practice II	3
SW 6061	Generalist Macro Practice I	3
SW 6062	Generalist Macro Practice II	3
SW 6064	Advanced Generalist Macro Practice II	3
SW 6081	Generalist Field Work I	3
SW 6082	Generalist Field Work II	3
SW 6083	Advanced Generalist Field Work I	4
SW 6084	Advanced Generalist Field Work II	4
SW 6777	Social Work Advanced Generalist Leadership and Capstone	3
Culminating Experience (5)		**5**
Total Units		**73**

Culminating Experience (5 units)

MSW Culminating Experience (2 units)

The research project represents the culminating MSW graduate experience. The research project is developed in SW 6012 and is carried out in the field setting under individual supervision in SW 6013 and completed in SW 6014. It must be on a social work practice topic, must use objective analysis and will be presented to faculty and field personnel orally and in writing. A thesis (SW 6971) may be done as an alternative of the research project with additional expectations, but is optional.

SW 6014	Research Project II	2
Total Units		**2**

MPA Culminating Experience (3 units)

The culminating experience for the MPA consists of two parts: PA 6980 is the Comprehensive Exam which addresses core course competencies. PA 6550 addresses public administration from a strategic perspective.

PA 6550	Capstone: Strategic Planning for Government and Nonprofit Organizations	3
PA 6980	Comprehensive Examination	0
Total Units		**3**

Bachelor of Arts in Public Service

The Bachelor of Science in Public Service is designed to prepare students for impactful careers in the various sectors dedicated to serving the public good. This interdisciplinary program integrates public administration, public and social policy, and organizational management to provide students with the knowledge and skills required to address complex social and community challenges. The curriculum emphasizes the relevant theories and practical applications of public service, teaching competencies in leadership, ethics, budgeting, human resources, policy analysis, community planning, and community engagement.

Requirements (45 units)

Total units required for graduation: 120

Requirements for a B.A. in Public Service

PA 3050	Organizations in Multicultural and Diverse Societies	3
PA 3150	Society, Business, & Global Governance	3
PA 3800	Introduction to Public Administration	3
PA 4620	Managing Human Resources For Public Service Organizations	3
PA 4630	Budgeting for Public Service Organizations	3
PA 4700	Public Policy and Administration	3
PA 5010	Ethical Public Service Leadership	3
PA 5140	Nonprofit Management and Leadership	3
ADMN 2100	Applied Business Statistics	3
MKTG 3160	Research Methods	3
MGMT 3500	Applied Communication	3
Students must take 12 additional units of upper division PA courses		12
Total Units		**45**

Minor in Nonprofit Management

The Minor in Nonprofit Management is designed to equip students with the essential skills and knowledge needed to work in, and manage nonprofit organizations. This program is ideal for students who are passionate about making a difference in their communities through nonprofit work. This minor would be a helpful supplement for students across the university who are interested in working in social services, youth programming, community organizing, the arts, public health, and policy advocacy careers.

Requirements for a minor in Nonprofit Management (18 units)

PA 3150	Society, Business, & Global Governance	3
PA 3800	Introduction to Public Administration	3
PA 5010	Ethical Public Service Leadership	3
PA 5140	Nonprofit Management and Leadership	3
PA 5150	Nonprofit Staff and Volunteer Management	3
PA 5170	Nonprofit Fundraising and Grantwriting	3
Total Units		**18**

Minor in Public Service

The Minor in Public Service provides student a basic background in managing public service organizations. It is an helpful supplement to all degrees, particularly for students who will work for government and nonprofit organizations.

Requirements for a minor in Public Service (18 units)

Upper-division requirements (15)		
PA 3800	Introduction to Public Administration	3

PA 3150	Society, Business, & Global Governance	3
PA 4620	Managing Human Resources For Public Service Organizations	3
PA 4630	Budgeting for Public Service Organizations	3
PA 4700	Public Policy and Administration	3
Three units chosen from the following courses: (3)		**3**
PA 5010	Ethical Public Service Leadership	
PA 5140	Nonprofit Management and Leadership	
PA 5150	Nonprofit Staff and Volunteer Management	
PA 5170	Nonprofit Fundraising and Grantwriting	
PA 5190	Managing Diversity in Organizations	
PA 5200	Sustainability Policy and Management	
PA 5210	Community Planning and Management	
PA 5280	Intergovernmental Relations and Policy Networks	
PA 5570	Public Sector Labor Relations	
PA 5640	Economic and Community Development	
Total Units		**18**

Randall W. Lewis School of Entrepreneurship and Innovation

Jack Brown Hall, Room 283

(909) 537-5087 Randall W. Lewis School of Entrepreneurship and Innovation website (https://entre.csusb.edu/)

The Randall W. Lewis School of Entrepreneurship and Innovation offers concentrations in Entrepreneurship within the Bachelor of Arts in Administration (p. 383) and the Master of Business Administration (p. 381), a Minor in Entrepreneurship (p. 415), and joint degree, minor and certificate programs in collaboration with the College of Arts and Letters, College of Education, and the College of Natural Sciences. In addition, the school offers the Master of Science in Entrepreneurship and Innovation (https://catalog.csusb.edu/entrepreneurship-innovation-ms/) degree, the only degree of its kind offered in the CSU system.

The Entrepreneurship program prepares students to be innovators in any context – startup ventures and small businesses, corporate entrepreneurship, or social entrepreneurship. With a focus on experiential learning and ecosystem on campus to support startup activity, students learn how to apply the entrepreneurial mindset and “Think Like An Owner! ™”

The program has received numerous accolades, including:

- Recognition as a Top 35 program globally by AACSB International.
- Top 50 Global Ranking of the graduate programs in Entrepreneurship by The Princeton Review and Entrepreneur Magazine for five straight years, 2022 to 2026. In 2026, the program is ranked #7 in the West and #36 in the world.

Current Faculty

Ezekiel Bonillas, Assistant Professor of Entrepreneurship and Innovation
B.A. 2004, B.A. 2004, M.B.A. 2006, Cal State University-San Bernardino
D.B.A. 2022, Case Western Reserve University

Peiyi Jia, Assistant Professor of Entrepreneurship and Innovation
B.A. 2007, Tianjin University of Finance and Economics
M.A. 2009, Boston University
Ph.D. 2022, University Of Lowell

Anna Long, Associate Professor of Entrepreneurship and Innovation
B.S. 2013, University at Buffalo
M.B.A. 2015, Canisius College
Ph.D. Baylor University

Michael Stull, Professor of Entrepreneurship and Innovation, Director
B.A. 1988, M.B.A. 1989, California State University, San Bernardino
E.D.M. 2005, Case Western Reserve University

Graduate Degree

Master of Science in Entrepreneurship and Innovation (MSEI) (p. 414)

Minor

Entrepreneurship (p. 415)

Master of Science in Entrepreneurship and Innovation

The Master of Science in Entrepreneurship and Innovation (MSEI) program offers students with business, technical, or other non-business degrees a comprehensive graduate education that prepares them to launch an innovative and scalable entrepreneurial ventures or new business ventures in large organizations. The 30-unit program will provide coursework and experiential learning activities and expose students to the key concepts of entrepreneurship and innovation including creativity, and ideation, evaluation and screening of business concepts using the scientific method of entrepreneurship, commercialization and technology transfer processes, business model formulation, startup models and the entrepreneurial process, team formation, intellectual property, marshaling resources, planning techniques and launch strategies. The program has a strong emphasis on data-driven decision-making and management science techniques. Students develop skills in statistical modeling, forecasting, data analysis, optimization and prototype testing, applying these methods to entrepreneurial contexts.

Admission to the Program

Suitability for admission to the program will be based on an examination of the entire application package. In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. Bachelor's Degree: A bachelor’s degree from an accredited college or university, with required minimum GPA of 2.75 calculated using the entire degree or the last 90 quarter (60 semester) units, which may include post baccalaureate work. Applicants in the process of finishing an undergraduate degree may apply, with acceptance contingent on successful completion of the undergraduate degree.
2. Personal Statement: A statement that provides insight on the student's motivation to join the program, how the student plans on using the degree to further his/her professional goals, and the personal qualifications that will contribute to successful completion of the program. This can be submitted in one of two possible formats: (a) a written statement of no more than 500 words; or (b) a short video, not more than 2 minutes in length.
3. English Proficiency for International Students: All international applicants who have not completed three years of full-time study at the secondary or post-secondary level where English was the language of instruction must also achieve an acceptable score, as determined by the MSEI committee, ratified by the College Curriculum Committee, and in alignment with the Office of Graduate Studies requirements on the Test of English as a Foreign Language (TOEFL), the IELTS exam or complete CSUSB's ESL program. The current minimum acceptable TOEFL score is 550/PBT, 213/CBT, 79-80/IBT taken within the past two years; IELTS score of 6.5 taken within the past two years; or complete level 4 of CSUSB's Intensive English Program;
4. Resume: Submission of a current resume;
5. Letters of Recommendation: One (1) letter of recommendation is required that attests to the applicant's intellectual and professional aptitude;
6. Interview: Each applicant will be required to participate in a brief interview with the MSEI program director and/or faculty.

Advancement to Candidacy

To be advanced to candidacy, a student must have:

1. Achieved classified standing.
2. Successfully completed the MSEI Guided Tour of Entrepreneurship Fundamentals.
3. Successfully completed 12 units with a minimum of a 3.0 grade point average in the program;
4. Completed an approved MSEI program plan in consultation with the designated faculty advisor of the MSEI program;
5. Secured approval of the Graduate director in charge of the MSEI program.

Requirements for Graduation

1. A minimum of 30 semester units of acceptable graduate-level work, consistent with the MSEI program plan (with a minimum overall GPA of 3.0);
2. Successful completion of the required and elective courses as shown in the "Degree Requirements";
3. At least 70% of the units for the degree completed at California State University at San Bernardino;
4. A grade point average of 3.0 ("B") in all course work taken after admission to conditionally classified or classified status, and grades of "C" (2.0) or better in all courses in the program;
5. Successful completion of ENTR 6960 meets the culminating experience requirement.
6. Students are expected to complete online MSEI Guided Tour of Entrepreneurship Fundamentals before the start of their first semester, unless later completion is approved by the MSEI program;
7. Successful completion of ENTR 6980 . The course includes a reflective essay that provides an overview of the student's experience, key learning takeaways and how the new knowledge will be used professionally. In addition, students will provide feedback on the overall program experience through a series of short answer questions, of which the data will be aggregated with other student responses to provide feedback for program and curriculum development. Students register for this 0-unit course in their final semester of enrollment in the MSEI program;
8. Any additional general requirements not cited above and listed in MSEI Graduate Degree Program Requirements.

A "no credit" (NC) designation will be entered on the student's transcript if he/she fails the MSEI Culminating Experience courses. Students who do not receive a passing grade on the first attempt must petition the college's director of graduate studies for permission to retake the culminating experience.

Degree Requirements (30 units)

(Program Code: ENIN)

Required Courses (21)		
ENTR 5141	Entrepreneurial Improvisation and Creativity	3
or TA 5141	Entrepreneurial Improvisation and Creativity	
ENTR 5410	Commercializing Entrepreneurial Innovation	3
ENTR 5450	Evidence-Based Resource Planning	3
ENTR 6200	Pitching the New Venture	3
ENTR 6210	Entrepreneurship and New Ventures	3
ENTR 6230	The Science of Opportunity: Data-Driven Recognition and Evidence-Based Evaluation	3
ENTR 6240	Law and Negotiations for the New Venture	3
ENTR 6980	Reflective Essay	0
Culminating Experience (3)		**3**
Concentration (6)		**6**
Students must satisfy the requirements of one of the concentrations listed below.		
Total Units		**30**

Applied Innovation Science Concentration (6 units)

ENTR 6250	New Venture Product Development	3
IST 6110	Foundations of Analytics and Big Data	3
Total Units		**6**

Venture Design & Leadership (6 units)

Six units chosen from the following:		6
ENTR 5155	Business Consulting	
ENTR 5435	Startup Toolbox: Research Essentials for Entrepreneurs	
ENTR 5470	Managing a Growing Business	
Total Units		**6**

Culminating Experience (3 units)

ENTR 6960	Entrepreneurial Immersion	3
Total Units		**3**

Minor in Entrepreneurship

The Minor in Entrepreneurship is designed to provide added knowledge, skills, and market value for non-business students. By learning key concepts in entrepreneurship such as opportunity recognition, ideation and creative problem solving, customer discovery, and business model development, students will acquire the added capability to launch a new business or contribute to new business development and innovation in existing organizations.

Requirements for a minor in Entrepreneurship (18 units)

In addition to the grade point average requirements stated in Program Requirements for a Bachelor's Degree, students must earn a grade of "C" (2.0) or better in all courses required to fulfill the Minor in Entrepreneurship.

ENTR 3000	Entrepreneurship and Innovation	3
ENTR 3141	The Improvisational Mind	3
or TA 3141	The Improvisational Mind	
ENTR 4420	Small Business Management	3
ENTR 5430	Ideation and Creative Problem Solving	3

ENTR 5435	Startup Toolbox: Research Essentials for Entrepreneurs	3
ENTR 5440	Developing the New Venture	3
ENTR 5980	Reflective Essay	0
Total Units		**18**

NOTE: Students concentrating in Entrepreneurship may not minor in Entrepreneurship.

Current Faculty

Ezekiel Bonillas, Assistant Professor of Entrepreneurship and Innovation
B.A. 2004, B.A. 2004, M.B.A. 2006, Cal State University-San Bernardino
D.B.A. 2022, Case Western Reserve University

Peiyi Jia, Assistant Professor of Entrepreneurship and Innovation
B.A. 2007, Tianjin University of Finance and Economics
M.A. 2009, Boston University
Ph.D. 2022, University Of Lowell

Anna Long, Associate Professor of Entrepreneurship and Innovation
B.S. 2013, University at Buffalo
M.B.A. 2015, Canisius College
Ph.D. Baylor University

Michael Stull, Professor of Entrepreneurship and Innovation, Director
B.A. 1988, M.B.A. 1989, California State University, San Bernardino
E.D.M. 2005, Case Western Reserve University

James R. Watson & Judy Rodriguez Watson College of Education

Chinaka DomNwachukwu, Dean

College of Education Building, Room 221
(909) 537-5600 College of Education website (https://www.csusb.edu/coe/)

James R. Watson & Judy Rodriguez Watson College of Education Student Services
College of Education Building, Room 102, (909) 537-5609

Departments

- Educational Leadership and Technology (https://www.csusb.edu/elt/)
- Special Education, Rehabilitation and Counseling (https://www.csusb.edu/src/)
- Teacher Education and Foundations (https://www.csusb.edu/coe/departments-offices/department-teacher-education-foundations-tef/)

Current Faculty

Hannah Kivalahula-Uddin, Assistant Professor of Education
B.S. 1991, University Of Missouri, Saint Louis
M.ED. 2008, City University of Seattle
Ph.D. 2018, University of Hawaii at Manoa

Emeriti

Susan J. Brotherton

Herbert K. Brunkhorst

Bonnie Brunkhorst

Katharine Busch

Renate Caine

Samuel M. Crowell

Esteban Diaz

G. Keith Dolan

Jay Fiene

Cheryl F. Fischer

Robert G. Fisk

Louise Fulton

Ernest Garcia

Rosalie Giacchino-Baker

Joseph W. Gray

Richard Griffiths

Mildred M. Henry

Jose S. Hernandez

Irvin Howard

Sherry M. Howie

Kenneth Johns

Adria Klein

Nathan Kravetz

Ellen Kronowitz

Kenneth E. Lane

Barbara D. Larrivee

Richard Moss

T. Patrick Mullen

Ruth A. Norton

Bonnie J. Piller

Judith M. Rymer

Ruth A. Sandlin

Rowena Santiago

Robert Senour

Gary Sherwin

Mary Jo Skillings

Sue A. Spitzer

Gordon E. Stanton

Helena Villacres Stanton

David Stine

Darleen K. Stoner

Elton N. Thompson

Arthur J. Townley

Steven R. Wagner

Janet Woerner

Alvin Wolf

Graduate Degrees

Doctor of Education

- Educational Leadership, Community College Specialization (p. 418)
- Educational Leadership, PK-12 Specialization (p. 420)

Department of Educational Leadership and Technology

College of Education Building, Room 374
(909) 537-7404 Department of Educational Leadership and Technology website

Current Faculty

Nancy Acevedo-Gil, Professor of Education
B.A. 2006, University of California, Berkeley
M.A. 2009, San Jose State Univeristy
Ph.D. 2014, University of California, Los Angeles

Eun-OK Baek, Professor of Education
B.A. 1987, M.Ed. 1993, Chinju National University, Korea
M.A. 1998, Ph.D. 2002, Indiana University

Sidney Burks, Lecturer in Education
B.A. 1970, M.A. 1972, San Diego State University

Susan Jindra, Lecturer in Education
B.A. 1972, Columbia University
MILS, 1974, DED 2001, University of Southern California

Angela Louque, Professor of Education
B.A. 1983, University of California, Los Angeles
M.A. 1986, Loyola Marymount
Ed.D. 1995, Pepperdine University

Edna Martinez, Assistant Professor of Education
B.S. 2005, M.Ed. 2007, University of Texas, El Paso
Ph.D. 2014, Clemson University

Joseph A. Scarcella, Professor of Education, Chair, Chair
B.A. 1985, M.A. 1992, San Diego State University
Ph.D. 1997, University of Missouri-Columbia

Emeriti

Patricia Arlin

Amy Leh

Brian W. Newberry

Donna L. Schnorr

Deborah E. Stine

Undergraduate Degrees

Bachelor of Arts

Career and Technical Studies (p. 423)

Bachelor of Science

Career and Technical Studies (p. 423)

Graduate Degrees

Master of Arts

- Career and Technical Education (p. 424)
- Educational Administration (p. 425)
- Instructional Design and Technology (p. 427)

Minor

Career and Technical Education Minor (p. 432)

Certificate Programs

E-Learning (p. 433)

Educational Technology (p. 433)

Basic Teaching Credential Programs

- Designated Subjects Career and Technical Education (p. 431)
- Designated Subject Credential in Adult Education (p. 430)

Specialist and Services Credential Programs

- Administrative Preliminary Services Credential (p. 429)
- Administrative Services Professional (p. 430)
- Preliminary Administrative Services Internship Credential (p. 428)
- Supervision and Coordination of Designated Subjects Program (p. 431)

Doctor of Education in Educational Leadership, Community College Specialization

The doctoral program in Educational Leadership is a rigorous, research-based program which prepares PK-12 and Community College leaders who can apply their knowledge base with the critical skills of analysis, inquiry, research and evaluation to contribute to the study, development, and implementation of educational reforms.

Admission to the Program

The recruitment and admissions committee will oversee the specific admissions processes for the program, review candidate applications and make admissions decisions. The graduate admissions standards of the university shall apply to all Ed.D. candidates.

The Ed.D. program requires the following of applicants for admission to the doctoral program:

1. A completed application;
2. An earned baccalaureate degree and master's degree from an accredited institution of higher education with a cumulative grade point average of 3.0 or higher in upper-division and graduate study combined;
3. Official transcripts from each college or university attended since high school graduation (no exceptions);

4. Submission of Graduate Record Examination (GRE) scores from three sections of the General Test taken within the last five years;
5. Three letters of recommendation from professionals in the field attesting to the leadership ability and scholarship potential of the candidate; included shall be one letter from an educationally related institution or university administrator and at least one letter from a university faculty member preferably with a doctoral degree that addresses the applicant's potential for academic success in a doctoral program. Letters must be sent directly to the Office of Doctoral Studies.
6. A written statement of purpose reflecting an understanding of the challenges facing the public schools or community colleges/ institutions of higher education in California;
7. A scholarly writing sample such as a master's thesis;
8. Sufficient preparation and experience to benefit from the program;
9. Demonstrated educational leadership potential and skills including successful experience in school, postsecondary, community, and/or policy leadership;
10. Demonstrated academic excellence, problem-solving ability, technology proficiency, and interest in critically assessing and bringing about improvements to current educational policies and practices as that pertains to social justice and equity; and
11. A personal interview.

Advancement to Candidacy

1. After completion of the qualifying examination, the student will advance to candidacy and can begin taking EDDL 7804. No more than 12-semester units shall be allowed for a dissertation. If students do not complete their qualifying examination within three years of the program, they will be placed on academic probation.

Requirements for Graduation

1. All 60 units required must be at the doctoral level.
2. At least 48 units required for the degree shall be completed in residence.
3. The overall grade point average must be at least a 3.0, and grades in individual courses must be a "B-" or better. Courses in which no letter grade is assigned shall not be used in computing the grade point average. Students with a grade point average below 3.0 in two successive terms will be disqualified from the program.
4. The Graduate Writing Assessment Requirements is met through successful completion of the doctoral dissertation.
5. The Ed.D. program is designed to be completed in three calendar years, including two required summer sessions. However, students are allowed five years of completion for the requirements of the doctoral degree. In accordance with Title 5, the appropriate campus authority may extend the time for completion.
6. After completion of the qualifying examination, the student will advance to candidacy and can begin taking EDDL 7804. No more than 12 semester units shall be allowed for a dissertation. If students do not complete their qualifying examination within three years of the program, they will be placed on academic probation.
7. Continuous enrollment is a requirement of the program. If extenuating circumstances require that the student leave the program for a period of time, the student must file a Leave of Absence for all semesters including all summer sessions. The doctoral leadership will develop an adjusted program plan with the student.
8. Ed.D. students must take their summer courses over the summer. Independent studies as substitutes for the summer courses are not allowed.
9. Ed.D. students may be permitted to repeat one course one time only. The original course grade on the student's permanent record will be discounted. Only the second grade earned shall apply to the student's cumulative post baccalaureate grade point average. The first attempt will show on the transcript with the repeat (discount) noted. If a student fails two courses, they will be automatically dismissed from the Ed.D. program.
10. Grade grievances must follow the university grade grievance policy. Non-academic grievances must follow the university non-academic grievance policy.
11. Issues related to student conduct and plagiarism will be addressed in accordance with university policy.

Program Milestones and Related Requirements

The Ed.D. Program includes rigorous classes, a qualifying examination, and written and oral defense of both a Dissertation Proposal and Dissertation, passage of which is required for student progression to program completion and degree conferral.

1. Dissertation Committee
The dissertation committee must be composed of a three member committee that includes: (a) a chair who must come from the Ed.D. program faculty. The other two members must have their doctoral degree or terminal degree and related expertise in the student's field of inquiry. The committee must be approved by the doctoral studies leadership. The committee is responsible for writing and reviewing the qualifying exam. In addition, the committee supports the student through the dissertation process and approves their work.

2. Written and Oral Qualifying Examinations

The qualifying examination is based on the student's approved literature review and is a rigorous assessment of student knowledge in response to questions generated by the student's dissertation committee.The qualifying examinations are administered when the student's dissertation committee has deemed the student is ready for the exam based on their literature review. Once students have passed their qualifying examination, a proposal for the dissertation is written and defended orally. Once the student's proposal (both written and oral) has been approved, they continue to work on their dissertation. The final step in the program is the written dissertation and oral defense.

3. Dissertation Proposal
The dissertation research will focus on a significant professional problem or issue and will have the potential to contribute, generally or in the context of a particular educational institution, to the improvement of public PreK-12 or community college/higher education. Work in support of the dissertation is embedded throughout the Ed.D. curriculum. However, formal dissertation research is subject to (a) passage of the dissertation proposal defense and (b) approval of human subjects by the Institutional Review Board in this order, which constitutes formal approval for the candidate to proceed with the dissertation research as proposed.

The dissertation proposal must demonstrate a strong scholarly and professional foundation of knowledge on the part of the candidate and must demonstrate the candidate's ability to apply this

knowledge to rigorous study of PreK-12 or community college/higher education. The dissertation proposal will contain, at a minimum, a description of the problem, a review of the relevant literature, a statement of the research question, a description of the research methodology, and a time-line for completion of the study.

The committee communicates formally in writing to the student its (a) approval, (b) approval with modifications, or (c) lack of approval. In the case of approval with modifications or lack of approval, the committee will communicate to the student in writing the process and expectations for resubmission. If the student is required to resubmit the proposal, the committee will review the revised proposal and communicate the outcome to the student in writing. The student must receive written approval of the proposal by the committee and written notification by the Institutional Review Board that human subjects review requirements have been met, and they must submit that approval letter to the doctoral studies office in order to proceed with the formal conduct of the dissertation research.

4. Institutional Review Board

Evidence of Institutional Review Board approval must be submitted to the doctoral studies office prior to the recruitment of participants and collection of data. Any changes to the original IRB protocol must be submitted and approved as an addendum to the IRB and IRB approval of that addendum must be submitted to the doctoral studies office. Failure to follow these steps presents grounds for dismissal from the program.

5. Dissertation Defense

The dissertation is the written product of the research undertaken in accordance with the approved proposal. The dissertation will state the research problem and question(s), describe the primary theoretical perspectives of the research, identify the major assumptions, explain the significance of the undertaking and relate it to the relevant scholarly and professional literature, describe the research methods, the sources for and methods of gathering data, the approaches used for analyzing the data, the findings based on the analysis of the data, and the conclusions or recommendations. The dissertation will reflect original analysis and independent, critical thought.

The committee communicates formally in writing to the student its (a) approved with commendation, to be conferred, (b) approved, to be conferred, (c) approved with following conditions/recommendations, and (d) disapproved. In the case of approval with conditions or disapproved, the committee will communicate to the student in writing the process and expectations for resubmission. If the student is required to resubmit the dissertation, the committee will review the revised proposal and communicate the outcome to the student in writing.

Unanimous agreement of the dissertation committee is required for approval of the dissertation and recommendation that the Ed.D. degree be conferred. In the event that the dissertation committee requires substantive changes to the dissertation, the final vote of the committee will be postponed until the changes are completed.

Submission of the approved dissertation is the last step in the program leading to the awarding of the Ed.D. degree. The dissertation must be submitted by the Graduate Studies deadline. The dissertation format must conform to Graduate Studies approved dissertation manuscript requirements. The final copy of the dissertation must be approved by the dissertation committee and the Office of Graduate Studies.

Degree Requirements (60 units)

(Program Code: ELCC)

EDDL 7901	Theories and Principles of Leadership	3
EDDL 7902	Leadership and Educational Reform	3
EDDL 7903	Leadership and Fiscal Planning in Complex Organizations	3
EDDL 7904	Human Resources Development and Management	3
EDDL 7905	Field-based Practicum in PK-20 Settings	3
ESPE 7906	Leadership in Program Development for Students with Disabilities	3
EDUC 7907	Diversity and Equity in Education	3
EDUC 7908	Ethical Leadership and Decision Making in Education	3
EDDL 7801	Scientific Inquiry	3
EDDL 7802	Applied Quantitative Research	3
EDDL 7803	Applied Qualitative Research	3
Community College Specialization (15)		
EDDL 7020	Foundations of Community Colleges and Other Higher Education Systems	3
EDDL 7120	Leadership for Teaching and Learning in Community College/Higher Education	3
EDDL 7220	Higher Education Organization, Governance, and Policy	3
EDDL 7320	Assessment and Data Driven Decision-Making in Community Colleges/Higher Education	3
EDUC 7420	Career and Technical Education Leadership in Community College	3
Culminating Experience (12)		**12**
Total Units		**60**

Culminating Experience (12 units)

Qualifying Exam (0)		
EDDL 7980	EdD Qualifying Exam	0
Dissertation (3)		
EDDL 7804	Dissertation	3
Total Units		**3**

Doctor of Education in Educational Leadership, PK-12 Specialization

The doctoral program in Educational Leadership is a rigorous, research-based program which prepares PK-12 and Community College leaders who can apply their knowledge base with the critical skills of analysis, inquiry, research and evaluation to contribute to the study, development, and implementation of educational reforms.

Admission to the Program

The recruitment and admissions committee will oversee the specific admissions processes for the program, review candidate applications and make admissions decisions. The graduate admissions standards of the university shall apply to all Ed.D. candidates.

The Ed.D. program requires the following of applicants for admission to the doctoral program:

1. A completed application;
2. An earned baccalaureate degree and master's degree from an accredited institution of higher education with a cumulative grade point average of 3.0 or higher in upper-division and graduate study combined;
3. Official transcripts from each college or university attended since high school graduation (no exceptions);
4. Submission of Graduate Record Examination (GRE) scores from three sections of the General Test taken within the last five years;
5. Three letters of recommendation from professionals in the field attesting to the leadership ability and scholarship potential of the candidate; included shall be one letter from an educationally related institution or university administrator and at least one letter from a university faculty member preferably with a doctoral degree that addresses the applicant's potential for academic success in a doctoral program. Letters must be sent directly to the Office of Doctoral Studies.
6. A written statement of purpose reflecting an understanding of the challenges facing the public schools or community colleges/ institutions of higher education in California;
7. A scholarly writing sample such as a master's thesis;
8. Sufficient preparation and experience to benefit from the program;
9. Demonstrated educational leadership potential and skills including successful experience in school, postsecondary, community, and/or policy leadership;
10. Demonstrated academic excellence, problem-solving ability, technology proficiency, and interest in critically assessing and bringing about improvements to current educational policies and practices as that pertains to social justice and equity; and
11. A personal interview.

Advancement to Candidacy

1. After completion of the qualifying examination, the student will advance to candidacy and can begin taking EDDL 7804. No more than 12 semester units shall be allowed for a dissertation. If students do not complete their qualifying examination within three years of the program, they will be placed on academic probation.

Requirements for Graduation

1. All 60 units required must be at the doctoral level.
2. At least 48 units required for the degree shall be completed in residence.
3. The overall grade point average must be at least a 3.0, and grades in individual courses must be a "B-" or better. Courses in which no letter grade is assigned shall not be used in computing the grade point average. Students with a grade point average below 3.0 in two successive terms will be disqualified from the program.
4. The Graduate Writing Assessment Requirements is met through successful completion of the doctoral dissertation.
5. The Ed.D. program is designed to be completed in three calendar years, including two required summer sessions. However, students are allowed five years of completion for the requirements of the doctoral degree. In accordance with Title 5, the appropriate campus authority may extend the time for completion.
6. After completion of the qualifying examination, the student will advance to candidacy and can begin taking EDDL 7804. No more than 12 semester units shall be allowed for a dissertation. If students do not complete their qualifying examination within three years of the program, they will be placed on academic probation.
7. Continuous enrollment is a requirement of the program. If extenuating circumstances require that the student leave the program for a period of time, the student must file a Leave of Absence for all semesters including all summer sessions. The doctoral leadership will develop an adjusted program plan with the student.
8. Ed.D. students must take their summer courses over the summer. Independent studies as substitutes for the summer courses are not allowed.
9. Ed.D. students may be permitted to repeat one course one time only. The original course grade on the student's permanent record will be discounted. Only the second grade earned shall apply to the student's cumulative post baccalaureate grade point average. The first attempt will show on the transcript with the repeat (discount) noted. If a student fails two courses, they will be automatically dismissed from the Ed.D. program.
10. Grade grievances must follow the university grade grievance policy. Non-academic grievances must follow the university non-academic grievance policy.
11. Issues related to student conduct and plagiarism will be addressed in accordance with university policy.

Program Milestones and Related Requirements

The Ed.D. Program includes rigorous classes, a qualifying examination, and written and oral defense of both a Dissertation Proposal and Dissertation, passage of which is required for student progression to program completion and degree conferral.

1. Dissertation Committee

The dissertation committee must be composed of a three member committee that includes: (a) a chair who must come from the Ed.D. program faculty. The other two members must have their doctoral degree or terminal degree and related expertise in the student's field of inquiry. The committee must be approved by the doctoral studies leadership. The committee is responsible for writing and reviewing the qualifying exam. In addition, the committee supports the student through the dissertation process and approves their work.

2. Written and Oral Qualifying Examinations

The qualifying examination is based on the student's approved literature review and is a rigorous assessment of student knowledge in response to questions generated by the student's dissertation committee.The qualifying examinations are administered when the student's dissertation committee has deemed the student is ready for the exam based on their literature review. Once students have passed their qualifying examination, a proposal for the dissertation is written and defended orally. Once the student's proposal (both written and oral) has been approved, they continue to work on their

dissertation. The final step in the program is the written dissertation and oral defense.

3. Dissertation Proposal
The dissertation research will focus on a significant professional problem or issue and will have the potential to contribute, generally or in the context of a particular educational institution, to the improvement of public PreK-12 or community college/higher education. Work in support of the dissertation is embedded throughout the Ed.D. curriculum. However, formal dissertation research is subject to (a) passage of the dissertation proposal defense and (b) approval of human subjects by the Institutional Review Board in this order, which constitutes formal approval for the candidate to proceed with the dissertation research as proposed.

The dissertation proposal must demonstrate a strong scholarly and professional foundation of knowledge on the part of the candidate and must demonstrate the candidate's ability to apply this knowledge to rigorous study of PreK-12 or community college/higher education. The dissertation proposal will contain, at a minimum, a description of the problem, a review of the relevant literature, a statement of the research question, a description of the research methodology, and a time-line for completion of the study.

The committee communicates formally in writing to the student its (a) approval, (b) approval with modifications, or (c) lack of approval. In the case of approval with modifications or lack of approval, the committee will communicate to the student in writing the process and expectations for resubmission. If the student is required to resubmit the proposal, the committee will review the revised proposal and communicate the outcome to the student in writing. The student must receive written approval of the proposal by the committee and written notification by the Institutional Review Board that human subjects review requirements have been met, and they must submit that approval letter to the doctoral studies office in order to proceed with the formal conduct of the dissertation research.

4. Institutional Review Board

Evidence of Institutional Review Board approval must be submitted to the doctoral studies office prior to the recruitment of participants and collection of data. Any changes to the original IRB protocol must be submitted and approved as an addendum to the IRB and IRB approval of that addendum must be submitted to the doctoral studies office. Failure to follow these steps presents grounds for dismissal from the program.

5. Dissertation Defense

The dissertation is the written product of the research undertaken in accordance with the approved proposal. The dissertation will state the research problem and question(s), describe the primary theoretical perspectives of the research, identify the major assumptions, explain the significance of the undertaking and relate it to the relevant scholarly and professional literature, describe the research methods, the sources for and methods of gathering data, the approaches used for analyzing the data, the findings based on the analysis of the data, and the conclusions or recommendations. The dissertation will reflect original analysis and independent, critical thought.

The committee communicates formally in writing to the student its (a) approved with commendation, to be conferred, (b) approved, to be conferred, (c) approved with following conditions/ recommendations, and (d) disapproved. In the case of approval with conditions or disapproved, the committee will communicate to the student in writing the process and expectations for resubmission. If the student is required to resubmit the dissertation, the committee will review the revised proposal and communicate the outcome to the student in writing.

Unanimous agreement of the dissertation committee is required for approval of the dissertation and recommendation that the Ed.D. degree be conferred. In the event that the dissertation committee requires substantive changes to the dissertation, the final vote of the committee will be postponed until the changes are completed.

Submission of the approved dissertation is the last step in the program leading to the awarding of the Ed.D. degree. The dissertation must be submitted by the Graduate Studies deadline. The dissertation format must conform to Graduate Studies approved dissertation manuscript requirements. The final copy of the dissertation must be approved by the dissertation committee and the Office of Graduate Studies.

Degree Requirements (60 units)

(Program Code: ELPT)

EDDL 7901	Theories and Principles of Leadership	3
EDDL 7902	Leadership and Educational Reform	3
EDDL 7903	Leadership and Fiscal Planning in Complex Organizations	3
EDDL 7904	Human Resources Development and Management	3
EDDL 7905	Field-based Practicum in PK-20 Settings	3
ESPE 7906	Leadership in Program Development for Students with Disabilities	3
EDUC 7907	Diversity and Equity in Education	3
EDUC 7908	Ethical Leadership and Decision Making in Education	3
EDDL 7801	Scientific Inquiry	3
EDDL 7802	Applied Quantitative Research	3
EDDL 7803	Applied Qualitative Research	3
PK-12 Specialization (15)		
EDDL 7012	Foundations of Leadership in PK-12 Institutions	3
EDDL 7112	Leadership for Teaching and Learning in PK-12	3
EDDL 7212	Public School Organization, Governance, and Policy	3
EDDL 7312	Assessment and Data Driven Decision-Making in PK-12	3
EDUC 7412	Leadership in Pupil Personnel Services	3
Culminating Experience (12)		**12**
Total Units		**60**

Culminating Experience (12 units)

Qualifying Exam (0)		
EDDL 7980	EdD Qualifying Exam	0
Dissertation (12)		

EDDL 7804	Dissertation	12
Total Units		**12**

Bachelor of Arts in Career and Technical Studies

Admission to the Program

The Bachelor of Arts in Career and Technical Studies (BCTS) is designed to provide candidates with significant occupational and teaching experience the opportunity to have that experience count as partial credit toward a baccalaureate degree. Applicants must possess a high school diploma or its equivalent and five years of work experience and/or education directly related to each subject the candidate teaches.

In order to qualify for a Career and Technical Evaluation of Competency (CTEC) applicant must have at least three years of full-time work experience, at least 1500 clock hours of teaching experience.

Applicants must be admitted to the university and should take ECTS 3350. Introduction to Career and Technical Studies within the first academic year.

Requirements (60 units)

Total units required for graduation: 120

Requirements for the B.A. in Career and Technical Studies

(Program Code: CTEC)

Career and Technical Studies courses		27-36
ECTS 3350	Introduction to Career and Technical Studies	3
ECTS 4350	Global Educational Perspectives	3
ECTS 5010	Principles and Methods for Teaching Designated Subjects	3
ECTS 5020	Instructional Support for Teaching Designated Subjects	3
ECTS 5040	Principles of Career and Technical Education	3
ECTS 5080	Organization and Structure of Career and Technical Programs	3
ECTS 5180	Field Work in Designated Subjects	3
ECTS 5190	Instructional Technology for Career and Technical Educators	3
ECTS 5200	Curriculum Development for Career and Technical Programs	3
ECTS 5210	Assessing Student Progress	3
ECTS 5220	Directing and Managing Occupational Programs	3
ECTS 5230	Educational Research and Learning Theory	3
ECTS 5410	Topics in Career and technical Education	3
Career and Technical Evaluation of Competency (CTEC)		
The equivalent of up to 30 semester units of experience must be verified through written examinations, portfolios, personal interviews, demonstrations, and/or other appropriate means of documentation.		30
Total Units		60

Bachelor of Science in Career and Technical Studies

Admission to the Program

As prerequisites for acceptance into the B.S. in Career and Technical Studies, students must complete the following as a "Pre-Career and Technical Studies major." Upon acceptance into the program, a student's major will be changed from "Pre-CTS" to "Career and Technical Studies" status.

Requirements to enter the B.S. in Career and Technical Studies:

1. An earned AA or AS degree in a technical field or consent of the department advisor;
2. Completed CSU GE-Breadth Certification from a California Community College, including the American Institutions requirements (U.S. History, U.S. Constitution, and California State and Local Government);
3. A minimum of 60 earned semester units;
4. A minimum GPA of 2.0;
5. A formal application submitted to the program adviser. Please see the Department of Educational Leadership and Technology for forms.

Requirements (60 units)

Total units required for graduation: 120

Requirements for the B.S. in Career and Technical Studies

(Program Code: CTEC)

Career and Technical Studies (27)		
Students must complete 15 required units and 12 elective units from this area as specified in a program plan developed with a program adviser.		
ECTS 5010	Principles and Methods for Teaching Designated Subjects	3
ECTS 5020	Instructional Support for Teaching Designated Subjects	3
ECTS 5040	Principles of Career and Technical Education	3
ECTS 5080	Organization and Structure of Career and Technical Programs	3
ECTS 5410	Topics in Career and technical Education	3
Twelve units chosen from:		12
ECTS 5090	Personnel Management in Career and Technical Programs	

ECTS 5100	Field Work in Coordination and Supervision of Career and Technical Programs	
ECTS 5180	Field Work in Designated Subjects	
ECTS 5190	Instructional Technology for Career and Technical Educators	
ECTS 5200	Curriculum Development for Career and Technical Programs	
ECTS 5210	Assessing Student Progress	
ECTS 5220	Directing and Managing Occupational Programs	
ECTS 5230	Educational Research and Learning Theory	
Instructional Technology (15)		
Students must complete 15 required units as specified in a program plan developed with a program advisor.		15
ETEC 5000	Foundations in Instructional Design & Technology	
ETEC 5010	Foundations of e-Learning	
ETEC 5410	E-Learning Design and Development	
ETEC 5423	Seminar in Instructional Design & Technology	
ETEC 5440	Instructional Design I	
ETEC 5460	Technology Integration in The Classroom	
Entrepreneurship (18)		
Students will complete 15 required units and 3 elective units from this area as specified in a program plan developed with a program advisor.		18
ENTR 3000	Entrepreneurship and Innovation	
ENTR 4420	Small Business Management	
ENTR 5430	Ideation and Creative Problem Solving	
ENTR 5440	Developing the New Venture	
ENTR 5450	Resources for the Entrepreneur	
ENTR 5980	Reflective Essay	
Three units chosen from:		
ENTR 5155	Business Consulting	
ENTR 5470	Managing a Growing Business	
HRM 4550	Human Resources Management	
MKTG 3050	Marketing Principles	
MKTG 4300	Professional Selling and Sales Management	
Total Units		**60**

Note: In order to qualify for the Designated Subjects Career and Technical Education Teaching Credential, students should have at least three years of verifiable work experience directly related to each industry sector named on the credential. One year must equal a minimum of 1000 clock hours for ROP or 1500 hours for adult education. Students pursuing the credential must also earn a "B" or better in all professional education courses attempted (those with the ECTS prefix).

Master of Arts in Career and Technical Education

The M.A. in career and technical education is designed to provide advanced and specialized education to personnel working in a variety of settings related to career, technical, and adult education such as secondary, post secondary and other private and state environments. The program provides opportunities for teachers to gain expertise with and knowledge in pedagogy and andragogy required to teach their subject matter. The program can be used to meet the requirements for leadership positions in these facilities.

Admission to the Program

Applicants must possess a baccalaureate degree from an accredited college or university. Prior to being admitted to the Master of Arts in Career and Technical Education Program in the College of Education, applicants must be admitted to the university as an unclassified graduate student. Application for admission to the university should be made at least three months prior to the date the applicant would like to begin taking courses.

Advancement to Candidacy

In order to be formally advanced to candidacy, applicants must have:

1. Been accepted to the College of Education as a classified graduate student.
2. Filed an approved graduate program form for completion of the degree.

The Career and Technical Education core consists of six courses: ECTS 6370, ECTS 6380, ECTS 6390, ECTS 5080, ECTS 5190, and ECTS 6350. Students should start with the College of Education writing requirement ECTS 5560.

Requirements for Graduation

1. A minimum of 33 semester units of acceptable work, with 27 completed in residence at this university;
2. A minimum of 15 units of credit taken after a student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
4. Registration and successful completion of comprehensive examination ECTS 6980;
5. the Graduate Writing Assessment Requirement is met through successful completion of ECTS 5560 or ECTS 6980.

Any additional general requirements not cited above and listed in Graduate Degree and Program Requirements. The program may not include less than one half the total number of courses taken at the 6000 level.

The program may not include more than 2 courses (3 semester units each) in approved extension and transfer courses from other colleges. California State University, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

Degree Requirements (33 units)

(Program Code: CTEC)

Career and Technical Education Core (18)		
ECTS 5080	Organization and Structure of Career and Technical Programs	3
or ECTS 6080	Organization and Structure of Career and Technical Programs	
ECTS 5190	Instructional Technology for Career and Technical Educators	3
or ECTS 6190	Instructional Technology for Career and Technical Educators	
ECTS 6350	Research in Career and Technical Education	3
ECTS 6370	Foundations of Career and Technical Studies	3
ECTS 6380	Critical Issues for the Career and Technical Educator	3
ECTS 6390	Professional Competencies in Career and Technical Studies	3
Career and Technical Education Electives (15)		
A minimum of 15 units chosen from:		15
ECTS 5010	Principles and Methods for Teaching Designated Subjects	
or ECTS 6010	Principles and Methods for Teaching Designated Subjects	
ECTS 5020	Instructional Support for Teaching Designated Subjects	
or ECTS 6020	Instructional Support for Teaching Designated Subjects	
ECTS 5040	Principles of Career and Technical Education	
or ECTS 6040	Principles of Career and Technical Education	
ECTS 5090	Personnel Management in Career and Technical Programs	
or ECTS 6090	Personnel Management in Career and Technical Programs	
ECTS 5100	Field Work in Coordination and Supervision of Career and Technical Programs	
or ECTS 6100	Field Work in Coordination and Supervision of Career and Technical Programs	
ECTS 5180	Field Work in Designated Subjects	
or ECTS 6180	Field Work in Designated Subjects	
ECTS 5200	Curriculum Development for Career and Technical Programs	
or ECTS 6200	Curriculum Development for Career and Technical Programs	
ECTS 5210	Assessing Student Progress	
or ECTS 6210	Assessing Student Progress	
ECTS 5220	Directing and Managing Occupational Programs	
or ECTS 6220	Directing and Managing Occupational Programs	
ECTS 5230	Educational Research and Learning Theory	
or ECTS 6230	Educational Research and Learning Theory	
ECTS 5410	Topics in Career and technical Education	
or ECTS 6410	Topics in Career and technical Education	
ECTS 5421	Seminar in Designated Subjects Education	
or ECTS 6421	Seminar in Designated Subjects Education	
ECTS 5422	Seminar in Designated Subjects Education	
or ECTS 6422	Seminar in Designated Subjects Education	
ECTS 5423	Seminar in Designated Subjects Education	
or ECTS 6423	Seminar in Designated Subjects Education	
ECTS 5500	Engineering for Educators	
or ECTS 6500	Engineering for Educators	
ECTS 6401	Topics in Education	
ECTS 6402	Topics in Education	
ECTS 6403	Topics in Education	
Additional Courses may be substituted with approval by adviser.		
Culminating Experience (0)		**0**
Total Units		**33**

Culminating Experience (0 units)

ECTS 6980	Comprehensive Examination	0
Total Units		**0**

The comprehensive examination is of an integrative nature and is designed to demonstrate the candidate's knowledge of the field of reading and literacy education. It also fulfills the Graduation Writing Requirement, so the quality of writing is also evaluated. The student may enroll in the examination no earlier than the last semester in which course work is taken. The student must have advanced to candidacy and completed a graduation check with the Office of Records, Registration and Evaluations before permission to take the examination can be granted. Students who do not receive a passing score may petition the College of Education to retake the examination or any part of it. Students who do not receive a passing score the second time must petition the Dean of Graduate Studies to retake it. The exam cannot be repeated more than twice. Approval to retake the examination may be, at any time, contingent upon completion of additional designated courses.

Master of Arts in Educational Administration

The Master of Arts in Educational Administration has two areas of concentration: TK - 12 and Community College/Higher Education.

The TK-12 specialization prepares candidates to effectively lead educational organizations TK-12. Candidates enroll in coursework that is aligned with the CTC CAPEs and complete 120 hours of administrative fieldwork. The preliminary administrative services credential program is integrated in with the MA.

The Community College/Higher Education specialization focuses on preparing professionals in the local area opportunities to advance in their careers and take on leadership roles in their institutions of higher learning.

In addition to core and elective courses, Master's students take a research course and complete the requirements with either a thesis or a comprehensive exam.

Admission to the Program

In addition to the general requirements of the university for admission as a postbaccalaureate student, specific requirements for admission to the Master of Arts in Educational Administration are:

1. An application for admission to the program must be submitted;
2. A cumulative grade point average of 3.0 ("B") in all courses;
3. Completion of or plan to satisfy the graduate entrance writing requirement.
4. Submission of a 2-page essay from the provided prompt.
5. TK-12 candidates also need:
   a. Verification of minimum of four years of documented full-time teaching, counseling, library or nursing experience in a school setting under a valid credential; substitute teaching does not apply;
   b. Valid California teaching, pupil personnel, library, health services credential or full-time designated subject credential (with B.A.);
   c. Successful completion of the California Basic Educational Skills Test (CBEST).
6. Community College/Higher Education candidates also need:
   a. Verification of at least three years of professional experience in a community college or other higher education institution.
   b. Verification of completion of B.A. or B. S. degree.

Students who do not meet all these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the College of Education. Normally, a student is expected to be working concurrently on the administrative services preliminary credential in the TK-12 specialization.

Advancement to Candidacy

In order to be formally advanced to candidacy, a student must have:

1. Achieved classified graduate standing;
2. Completed coursework with a grade point average of 3.0 ("B") overall.
3. Submitted a program plan;
4. Filed an approved graduate program check for completion of the degree. This must be prepared in consultation with an advisor in the College of Education and approved by the Dean of the College of Education and the Dean of Graduate Studies.

Requirements for Graduation

1. A minimum of 34-semester units of acceptable work with 24 completed in residence at this university;
2. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements and grades of "C" (2.0) or better in all courses in the program;
3. Successful completion of the Comprehensive Evaluation in Educational Administration (EADM 6692 and passing the EADM 6980 Comprehensive Exam or Master's Thesis in Educational Administration (EADM 6973).
4. The Graduate Writing Assessment Requirement is met through the culminating experience.
5. Any additional general requirements not cited above and listed in Graduate Degree and Program Requirements (p. 74).

Degree Requirements (34 units)

Core Courses (15)		
EADM 6601	Educational Leadership and Ethics	3
EADM 6602	Research Methods in Educational Administration	3
EADM 6607	Culture, Equity, and Communication in Diverse Society	3
EADM 6613	Organizational Management and Human Resources	3
EADM 6625	Organizational Management and Fiscal Resources	3
Concentrations (16)		**16**
TK-12		
Community College/Higher Education		
Culminating Experience (3)		
Students must choose either Comprehensive Examination or Thesis		3
Total Units		**34**

Concentrations

TK-12 (16 units)

(Program Code: EATK)

Required Courses (10)		
EADM 6610	Educational Supervision and Teacher Development	3
EADM 6619	Policy, Governance and Legal Aspects of Education	3
EADM 6622	Curriculum, Programs, and Assessment	4
TK-12 Fieldwork (6)		
6 unit chosen from:		6
EADM 6620	Fieldwork in Educational Administration I	
EADM 6621	Fieldwork in Educational Administration II	
EADM 6630	Internship Fieldwork in Educational Administration I	
EADM 6631	Internship Fieldwork in Educational Administration II	
Total Units		**16**

Community College/Higher Education (16 units)

(Program Code: EACC)

Required Courses (16)		
EADM 6632	History and Philosophy of Community College/Higher Education	3
EADM 6633	Policy and Governance in Community College/Higher Education	3

EADM 6634	Program Assessment and Evaluation in Community College/Higher Education	4
EADM 6636	Special Topics in Higher Education	3
EADM 6637	Community College/Higher Education Field Project	3
Total Units		**16**

Culminating Experience

Comprehensive Exam Option (3 units)

EADM 6692	Comprehensive Evaluation in Educational Administration	3
EADM 6980	Comprehensive Examination in Education Administration	0
Total Units		**3**

Thesis Option (3 units)

EADM 6973	Masters Thesis in Educational Administration	3
Total Units		**3**

Master of Arts in Instructional Design and Technology

The M.A. in Instructional Design & Technology is designed to meet the needs of technology professionals in schools and other education related settings as well as business settings. The primary mission of the M.A in IDT program is to prepare professionals to improve learning and performance, with effective use of technology, employing a systematic and systemic instructional design process. This program values ethical, life-long, independent, and collaborative learning. It promotes social justice, respects diverse perspectives, and fosters leadership for change. This program uses hands-on and student-centered approaches.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to "classified" graduate status are:

1. A cumulative grade point average of 3.0 ("B") in all upper- division courses; and
2. Three letters of recommendation, from individuals familiar with the applicant's work history or educational background, using a program approved template of the letters of recommendation.

Students who do not meet these criteria may be admitted as “conditionally classified” graduate students. Students admitted in this category may be changed to classified standing with approval from the College of Education. No more than 15 semester units may be used to demonstrate fitness to complete the program.

Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Met Writing Requirement for Graduate Candidacy;
3. Completed with a grade point average of 3.0 ("B"), at least 15 semester units of applicable course work in graduate standing, at least 12 of which have been taken at this campus and approved by an advisor in the College of Education;
4. Between the time of completing 12 units and 15 units of applicable course work, the student is required to apply for advancement to candidacy.
5. Satisfactorily completed ETEC 5000, ETEC 5430, ETEC 5440, and ETEC 6430;
6. Filed an official document titled Instructional Design and Technology "Graduate Approved Program Plan.” This must be approved by the student's advisor and the graduate coordinator of the program.

Requirements for Graduation

1. A minimum of 30 semester units of acceptable graduate-level work, with a minimum of 21 completed in residence at this university;
2. A grade point average of 3.0 ("B") and grades of "C" (2.0) or better in course work taken to satisfy the Master of Arts degree requirements;
3. Successful completion of comprehensive examination or a master's degree project.
   a. Comprehensive Examination
      The written comprehensive examination is designed to test the student's knowledge in the field of Instructional Design and Technology. Before taking the comprehensive examination, students are required to attend their e-portfolio defense and successfully pass the defense.

      For the exam preparation, students are required to take ETEC 6850. Students must take ETEC 6980 to take the comprehensive examination with permission from the program coordinator. Students may not take the examination more than three times.
   b. MA Project
      The purpose of the project is for the student to communicate ideas gained in research, experimentation and creative endeavors. A project will be planned in consultation with the student's first and second readers. The project proposal must be approved by the student's both readers, at least one of whom must be from the College of Education. The project also must be approved by the first and second readers and submitted in the approved format. The project can be reported in the form of a paper and/or other media. Both media and non-media projects require a final written report.
4. Graduate students are required to complete the Graduate Writing Assessment Requirement before being classified or advanced to candidacy. There are three options a student can choose from to meet the writing requirement.
   a. The student completes ETEC 5200 or ETEC 5423 and attains a grade of B or better.
   b. The student scores an acceptable standardized test score (WREE or GRE).
   c. The student submits a paper(s) that will receive a passing score according to the approved rubric (http://coe.csusb.edu/sites/default/files/PaperEvaluationCriteria_WritingRequirement.pdf)
5. Any additional general requirements not cited above and listed in Graduate Degree and Program Requirements (p. 74) website.

The program may not include more than 9 semester units in approved extension and transfer courses from other colleges. California State University, San Bernardino will not consider for transfer credit course work

from an institution which will not accept that work in its own advanced degree program.

Degree Requirements (30 units)

(Program Code: INDT)

Required Courses (18)		
ETEC 5000	Foundations in Instructional Design & Technology	3
ETEC 5430	Research in Instructional Design & Technology I	3
ETEC 5440	Instructional Design I	3
ETEC 6430	Research in Instructional Design & Technology II	3
ETEC 6440	Instructional Design II	3
ETEC 6920	Practicum in Instructional Design and Technology	3
Electives (9)		
Nine units chosen from:		9
ETEC 5010	Foundations of e-Learning	
ETEC 5410	E-Learning Design and Development	
ETEC 5423	Seminar in Instructional Design & Technology	
ETEC 5460	Technology Integration in The Classroom	
ETEC 6480	E-Learning Delivery and Evaluation	
ETEC 6550	Multimedia Production with Emerging Instructional Technologies	
ETEC 6740	E-Learning Technology and Media	
Culminating Experience (3)		**3**
Total Units		**30**

Culminating Experience (3 units)

Successful completion of comprehensive examination or a master's degree project.

Comprehensive Examination Option (3 units)

ETEC 6850	ePortfolio & Comprehensive Exam Preparation	3
ETEC 6980	Comprehensive Examination	0
Total Units		**3**

The written comprehensive examination is designed to test the student's knowledge in the field of Instructional Design and Technology. Before taking the comprehensive examination, students are required to attend their e-portfolio defense and successfully pass the defense.

For the exam preparation, students are required to take ETEC 6850. Students must take ETEC 6980 to take the comprehensive examination with permission from the program coordinator. Students may not take the examination more than three times.

Project Option (3 units)

ETEC 6963	Masters Degree Project	3
Total Units		**3**

The purpose of the project is for the student to communicate ideas gained in research, experimentation and creative endeavors. All projects will be planned in consultation with the student's first and second readers. The project proposal must be approved by the student's both readers, at least one of whom must be from the College of Education. The project also must be approved by the first and second readers and submitted in the approved format. The project can be reported in the form of a paper and/or other media. Both media and non-media projects require a final written report.

Preliminary Administrative Services Internship Credential

The Administrative Services Preliminary Intern Program is a state approved program that qualifies graduates to serve in any administrative position in California Public Schools, TK-12. Students in the intern program must be currently hired as educational administrators. Upon completion of this program the students apply for the Administrative Services Preliminary Credential.

Admission to the Program

In addition to meeting the general requirements of the university for admission as a post-baccalaureate student, admission to the Administrative Services Preliminary (Internship) Credential program requires the following:

1. An application for admission to the program must be submitted;
2. A 3.0 ("B") grade point average overall in all courses;
3. Completion of or plan to satisfy the graduate entrance writing requirement;
4. Verification of completion of minimum of five years of full-time years of teaching, counseling, or other certified work;
5. A valid clear teaching, pupil personnel, library, or health services credential or full-time designated subject credential (with B.A.);
6. Successful completion of the California Basic Educational Skills Test (CBEST);
7. Submission of a 2-page essay from the provided prompt;
8. Student must be currently hired as a school administrator;
9. An internship contract signed between the student, the school district and the program;
10. Students must enroll in the intern course, EADM 6630, each semester they remain in the program and complete the program within two years;
11. Apply for the administrative services internship credential from the Commission for Teacher Credentialing.
12. Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the College of Education.

Recommendation for the Credential

Recommendation to be recommended for the administrative services preliminary credential, a candidate must:

1. Successfully complete the regular program for the Preliminary Administrative Services Credential;
2. Be currently employed in an administrative position in a school district or county office of education.

3. Pass the new California Administrator Performance Assessment (CalAPA) which is required starting in Fall, 2019.
4. Obtain recommendation from program coordinator.

Credential Requirements (28 units)

EADM 6601	Educational Leadership and Ethics	3
EADM 6607	Culture, Equity, and Communication in Diverse Society	3
EADM 6610	Educational Supervision and Teacher Development	3
EADM 6613	Organizational Management and Human Resources	3
EADM 6619	Policy, Governance and Legal Aspects of Education	3
EADM 6622	Curriculum, Programs, and Assessment	4
EADM 6625	Organizational Management and Fiscal Resources	3
EADM 6630	Internship Fieldwork in Educational Administration I	3
EADM 6631	Internship Fieldwork in Educational Administration II	3
Students are encouraged to take the following; however it is not required.		
EADM 6640	California Administrator Performance Assessment (CalAPA) Support Seminar	
Total Units		**28**

Note: Students must see program coordinator/advisor for recommended sequence of program.

Culminating Experience (0 units)

Complete the Student Exit Assessments in all areas of the CAPEs

Complete Student Portfolio addressing the six areas of the CAPEs

Administrative Preliminary Services Credential

The Administrative Services Preliminary Credential Program is a state approved program that qualifies graduates to service in any administrative position in California Public Schools, TK-12. Students work toward mastery of the California Administrator Performance Expectations (CAPEs). Students are prepared to pass the new California Administrator Performance Assessment (CalAPA) which is required starting in Fall, 2019 for the credential.

Admission to the Program

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the Administrative Services Preliminary Credential Program requires the following:

1. An application for admission to the program must be submitted;
2. A 3.0 ("B") grade point overall average in all courses;
3. Completion of or plan to satisfy the graduate entrance writing requirement;
4. Verification of minimum of four years of full-time credentialed experience, school-related nursing, library service, and/or counseling experience.
5. A valid Clear California teaching, pupil personnel, health services, library credential, or full-time designated subject credential (with B.A.);
6. Successful completion of the California Basic Educational Skills Test (CBEST).
7. Submission of a 2-page essay from the provided prompt.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the College of Education.

Recommendation for the Credential

To be eligible to be recommended for the credential, a candidate must:

1. Demonstrate mastery of the California Commission on Teacher Credentialing (CTC) California Administrator Performance Expectations (CAPES) as evidenced by student portfolio, coursework, and student exit assessments.
2. Successfully complete all program requirements;
3. Pass the new California Administrator Performance Assessment (CalAPA) which is required starting in Fall, 2019.
4. Obtain recommendation from program coordinator.

Credential Requirements (28 units)

EADM 6601	Educational Leadership and Ethics	3
EADM 6607	Culture, Equity, and Communication in Diverse Society	3
EADM 6610	Educational Supervision and Teacher Development	3
EADM 6613	Organizational Management and Human Resources	3
EADM 6619	Policy, Governance and Legal Aspects of Education	3
EADM 6622	Curriculum, Programs, and Assessment	4
EADM 6625	Organizational Management and Fiscal Resources	3
EADM 6620	Fieldwork in Educational Administration I	3
EADM 6621	Fieldwork in Educational Administration II	3
Culminating Experience (0)		**0**
Students are encouraged to take the following; however it is not required.		
EADM 6640	California Administrator Performance Assessment (CalAPA) Support Seminar	
Total Units		**28**

Note: Students must see program coordinator/advisor for recommended sequence of program.

Culminating Experience (0 units)

Complete the Student Exit Assessments in all areas of the CAPEs.

Complete Student Portfolio addressing the six areas of the CAPEs

Administrative Services Professional Credential

The clear administrative services professional credential is a two year program. The program consists of professional development designed to address the six CPSELs, development of a Individualized Induction Plan, assessment, and a minimum of 40 hours of coaching with a certified coach each year.

Admission to the Program

In addition to the general requirements of the university for admission as a postbaccalaureate student, admission to the Professional Clear Administrative Services Credential program requires the following:

1. Application for admission to the program;
2. A valid Preliminary Administrative Services Credential;
3. Verification of current employment in an administrative position;
4. A 3.0 ("B") grade point average in all graduate work;
5. Verification of a Master's Degree in a related field;
6. An Individual Program Plan (IP) on file or in progress.

Recommendation for the Professional Credential

In order to be recommended for a credential, the student must have:

1. Two (2) years of full-time administrative experience in the public schools, or private schools or equivalent;
2. Completed all program requirements while employed in a full-time school/district administrative position.

Credential Requirements (16 units)

EADM 6681	Vision and Student Achievement	2
EADM 6682	Collaborative Culture of Teaching and Learning	2
EADM 6683	Resource Management of the Learning Institution	2
EADM 6684	Political, Legal, Cultural Context in Education	2
EADM 6685	Coaching and Assessment Practicum I	2
EADM 6686	Coaching and Assessment Practicum II	2
EADM 6687	Coaching and Assessment Practicum III	2
EADM 6688	Coaching and Assessment Practicum IV	2
Culminating Experience		0
Total Units		**16**

Culminating Experience (0 units)

Student Portfolio

Individual Induction Plan

Designated Subject Credential in Adult Education

The Designated Subjects Adult Education Teaching Credential focuses on the continuous learning essential for all individuals in an effective, dynamic educational unit or organization. It allows one to explore central concepts and processes in adult learning, barriers to adult learning, evaluation strategies in adult education, and recent research on human learning. This credential is for anyone teaching in an adult learning environment. This credential is for those candidates seeking employment with a correctional institution, community college, private secondary, or post-secondary environment.

Credential Requirements (9 units)

The Designated Subjects Adult Education Teaching Credential Program equips educators for specialized roles in adult education. Admission requires a high school diploma or equivalent and at least three years of verifiable work experience related to the credential's industry sector for the **Preliminary Credentia**l. One year must equal 1,000 clock hours, and the experience can be full-time or part-time, paid or unpaid. At least one year of work experience must have been completed within the past five years, or two years within the last ten years. For guidance, applicants can contact the Credential Processing Office (https://www.csusb.edu/teacher-education/credential-processing/) at the Jim and Judy Watson College of Education Student Services. The Preliminary Credential, valid for three years, is the first step for those entering the field. It is based on documented work experience and is required to advance to the Clear Credential, as mandated by the California Commission on Teacher Credentialing (https://www.ctc.ca.gov/).

To obtain the **Clear Credential**, candidates must complete the following ECTS coursework, meet US Constitution and Health Education requirements, obtain CPR certification, and complete two years of teaching under the Preliminary Credential. This program offers a structured pathway for educators to enhance their qualifications and make effective contributions to adult education.

Required Courses for Cleared Credential:

ECTS 5010	Principles and Methods for Teaching Designated Subjects	3
or ECTS 6010	Principles and Methods for Teaching Designated Subjects	
ECTS 5033	Principles of Adult Education	3
ECTS 5190	Instructional Technology for Career and Technical Educators	3
or ECTS 6190	Instructional Technology for Career and Technical Educators	
Total Units		**9**

Additional Requirements

* Please note: For verification of the additional requirements, contact the Credential Processing Office at the Jim & Judy Watson Student Services.

Students must also complete:

1. The United States Constitution requirement (or successful completion of an examination administered through the College of Extended Learning) Current options:

HIST 1460	History of the United States: Pre-Colonization to Present	3
HIST 2000	United States History to 1877	3
HIST 5400	Constitutional History of the United States	3
PSCI 2030	Government of the United States	3
PSCI 4100	American Constitutional Law	3
PSCI 4110	The Bill of Rights	3

2. Fulfill the health education requirement; current option HSCI 5240.
3. Valid CPR card or certificate (Hands-on training covering Adult, Child, & Infant).
4. Two years of successful teaching based on the Preliminary Designated Subjects Adult Education Teaching Credential in the subject(s) listed on the credential. This is defined as teaching of a minimum of one course in each of four terms within the three-year period of validity of the preliminary adult education teaching credential.

Designated Subjects Career Technical Education Credential

The Designated Subjects CTE Teaching Credential authorizes the holder to teach in grades twelve and below and in classes organized primarily for adults, in career technical, trade or vocational courses.

Credential Requirements (9 units)

The Designated Subjects Career Technical Education (CTE) Teaching Credential Program prepares educators for specialized roles in career and technical education. Admission requires a high school diploma or equivalent and at least three years of verifiable work experience directly related to the industry sector listed on the credential for the **Preliminary Credential**. One year must equate to 1,000 clock hours, and the experience can be full-time or part-time, paid or unpaid. Additionally, at least one year of work experience must have been completed within the past five years, or two years within the last ten years. For assistance, applicants can contact the Credential Processing Office (https://www.csusb.edu/teacher-education/credential-processing/) at the Jim and Judy Watson College of Education Student Services.

The Preliminary Credential, valid for three years, is the initial step for individuals entering the field. It is based on documented work experience and serves as a prerequisite to advancing to the Clear Credential, as required by the California Commission on Teacher Credentialing (https://www.ctc.ca.gov/) (CTC). Prospective candidates should request an application packet from the Credential Processing Office and ensure the credential supports their professional goals. Additional details are available on the CTC website.

To obtain the **Clear Credential**, candidates must complete the required ECTS coursework, fulfill US Constitution and Health Education requirements, obtain CPR certification, and complete two years of teaching under the Preliminary Credential. This program offers a clear and structured pathway for educators to enhance their qualifications and make a meaningful impact in career and technical education.

Required Courses for Cleared Credential (9 units)

ECTS 5010	Principles and Methods for Teaching Designated Subjects	3
or ECTS 6010	Principles and Methods for Teaching Designated Subjects	
ECTS 5040	Principles of Career and Technical Education	3
or ECTS 6040	Principles of Career and Technical Education	
ECTS 5190	Instructional Technology for Career and Technical Educators	3
or ECTS 6190	Instructional Technology for Career and Technical Educators	
Total Units		**9**

Additional Requirements

* Please note: For verification of the additional requirements, contact the Credential Processing Office (https://www.csusb.edu/teacher-education/credential-processing/) at the Jim & Judy Watson Student Services.

Students must also complete:

1. The United States Constitution requirement (or successful completion of an examination administered through the College of Extended and Global Education) Current options:

HIST 1460	History of the United States: Pre-Colonization to Present	3
HIST 2000	United States History to 1877	3
HIST 5400	Constitutional History of the United States	3
PSCI 2030	Government of the United States	3
PSCI 4100	American Constitutional Law	3
PSCI 4110	The Bill of Rights	3

2. Fulfill the health education requirement; current option HSCI 5240.
3. Valid CPR card or certificate (Hands-on training covering Adult, Child & Infant).
4. Two years of subject-related teaching experience in the environments relevant to the credential within the validity of the Preliminary Credential.

Supervision and Coordination of Designated Subjects Program Credential

This program is for teacher leaders with the relevant teaching experience. This program allows people to receive a designated subject credential in Supervision and Coordination.

Credential Requirements (9 units)

ECTS 5080	Organization and Structure of Career and Technical Programs	3
ECTS 5090	Personnel Management in Career and Technical Programs	3

ECTS 5100	Field Work in Coordination and Supervision of Career and Technical Programs	3
Successful completion of the California Basic Educational Skills Test (CBEST).		
Total Units		**9**

Minor in Career and Technical Education

This minor is for those candidates seeking employment with a Regional Occupational Program (ROP), Public or Charter School or Correctional Institution. It also beneficial for persons interested in teaching in a community college, private secondary or post-secondary environment.

Candidates seeking the Designated Subjects Teaching credential will also need to complete:ECTS 5180, HSCI 5240, Adult/child/infant CPR, U.S. Constitution, and teaching experience requirements .

Requirements for a minor in Career and Technical Studies (18 units)

ECTS 5010	Principles and Methods for Teaching Designated Subjects	3
ECTS 5020	Instructional Support for Teaching Designated Subjects	3
ECTS 5040	Principles of Career and Technical Education	3
ECTS 5190	Instructional Technology for Career and Technical Educators	3
ECTS 5200	Curriculum Development for Career and Technical Programs	3
ECTS 5210	Assessing Student Progress	3
Total Units		**18**

Certificate in Educational Technology

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (18 units)

Required Courses (18)		
ETEC 5000	Foundations in Instructional Design & Technology	3
ETEC 5430	Research in Instructional Design & Technology I	3
ETEC 5440	Instructional Design I	3
ETEC 5460	Technology Integration in The Classroom	3
ETEC 6440	Instructional Design II	3
ETEC 6550	Multimedia Production with Emerging Instructional Technologies	3
Total Units		**18**

Certificate in E-Learning

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (12 units)

Required Courses (12)		**12**
ETEC 5010	Foundations of e-Learning	
ETEC 5410	E-Learning Design and Development	
ETEC 6480	E-Learning Delivery and Evaluation	
ETEC 6740	E-Learning Technology and Media	
Total Units		**12**

Department of Special Education, Rehabilitation and Counseling

College of Education Building, Room 243
(909) 537-5606 Department of Special Education, Rehabilitation and Counseling website (https://www.csusb.edu/src/)

Current Faculty

Daniel Stewart, Lecturer in Education
B.A. 2008
M.S. 2011, California State University, San Bernardino
Ph.D. 2017, University of Louisiana, Monroe

Stanley L. Swartz, Professor of Education
A.B. 1970, Findlay College
M.Ed. 1972, Ph.D. 1976, Bowling Green State University

Emeriti

Margaret H. Cooney

Carolyn R. Eggleston

Sherri Franklin-Guy

Lorraine Hedtke

Marjorie McCabe

Connie McReynolds

Sang Seok Nam

Robert (Brett) Nelson

Dwight P. Sweeney

Joseph Turpin

Dudley J. Wiest

John M. Winslade

Graduate Degrees

Master of Arts

- Rehabilitation Counseling (p. 435)

Master of Science

- Counseling (p. 436)
- Special Education (p. 438)

Education Specialist

- School Psychology (p. 434)

Basic Teaching Credential Programs

- Internship Education Specialist Credential: Early Childhood Special Education (p. 443)

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- Preliminary Education Specialist Credential: Early Childhood Special Education (p. 445)
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- Preliminary Education Specialist Credential: Extensive Support Needs (p. 449)

Specialist and Services Credential Programs

Pupil Personnel Services Credential: School Psychology (p. 451)

Minor

Counseling and Social Change (p. 451)

Certificates

Rehabilitation Counseling (p. 453)

Education Specialist Degree in School Psychology

The Ed.S. in school Psychology is a 63 semester unit sequence program designed for students wishing to pursue a career in school psychology. In addition to the two years of coursework in assessment, consultation, evidence-based intervention, legal and ethical issues, multicultural counseling, research, measurement and cognitive assessment, students must complete 450 hours of applied practica. A 1200 hour internship in a school setting is completed during the third year. A comprehensive examination given by NASP consistent with Nationally Certified School Psychologists must also be passed during the third year.

The Ed.S in school psychology fulfills all coursework needed to comply with the common and generic standards for the Pupil Personnel Services Credential (PPS) as well as advanced coursework which meets the CA state standards for school psychology specialization.

Admission to the Program

Candidates are admitted for fall only. In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A baccalaureate degree from an accredited college or university in psychology, child development, or related social science field;
2. Official transcripts;
3. Personal statement of why candidate wants to pursue graduate degree in school psychology;
4. Two reference forms and letters of recommendation from persons having knowledge of the applicant's potential as a school psychologist;
5. Evidence of current negative TB test;
6. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
7. Minimum grade point average of 3.0;
8. Prerequisite classes include one class in Child Development and one class in Statistics;
9. The California Basic Educational Skills Test (CBEST) must be completed before the end of the student's first year of classes.

Advancement to Candidacy

1. Achieve classified status.
2. Submitted documentation of successful passing of the CBEST or other test of basic skills.
3. Completion of 24 semester units of coursework in the program.
4. Maintain an overall GPA of 3.0 (“B”) or better and no grades below a B-.
5. File an approved Program Plan. The Program Plan must be approved by the student, major advisor/program coordinator and filed with Student Services in the College of Education.

Requirements for Graduation

1. All courses taken to satisfy the requirements for the Ed.S. must be completed with a minimum of 3.0 ("B") or better;
2. 44 units of coursework must be completed at this university;
3. Advance to candidacy;
4. The Graduate Writing Assessment Requirements is met upon successful completion of EDSP 6607 with a grade of B or higher;
5. Completion of 1200 hour supervised fieldwork/internship;
6. Comprehensive examination that consists of a passing score on the Praxis exam put out by ETS for the National Association of School Psychologists;
7. Completion of a graduation requirement check.

Degree Requirements (63 units)

(Program Code: SPSY)

EDSP 6607	Research in School Psychology	3
EDSP 6619	Tests and Measurements in School Psychology	3
EDSP 6620	Introduction to School Psychology Practicum	3
EDSP 6632	Psychological Foundations of Education and Learning Theory	3
EDSP 6633	Advanced Child Development	3
EDSP 6647	Individual Testing and Case Study Techniques	3
EDSP 6648	Ecological Assessment and Case Study Techniques	3
EDSP 6656	Counseling Theories	3
EDSP 6658	Consultation in School Systems for School Psychologists	3
EDSP 6660	Child Psychopathology	3
EDSP 6678	Counseling in the School and Community	3
EDSP 6681	Counseling Practicum	3
EDSP 6685	School Psychology Practicum I	3
EDSP 6686	School Psychology Practicum II	3
EDSP 6687	School Psychologists as Change Agents: Theory and Practice	3

EDSP 6688	Behavioral Assessment and Intervention	3
EDSP 6691	Applied Research in Educational Settings	3
EDSP 6756	Internship in School Psychology (repeat twice for a total of 12 units)	12
Culminating Experience (0)		**0**
Total Units		**63**

Culminating Experience (0 units)

Ed.S. students take the Praxis exam put out by ETS for the National Association of School Psychologists, which indicates student knowledge level is equivalent to school psychology programs across the country. For this program, a passing score is one-half standard deviation below the national mean of 147. The Praxis exam can be taken any time after the student advances to candidacy. Students who do not receive a passing score may petition the School Psychology Program Coordinator to retake the examination. Students who do not receive a passing score the second time must petition Graduate Studies with the approval of the School Psychology Program Coordinator to retake the exam. Approval to retake the examination may be, at any time, contingent on completion of additional designated courses and the development of a written plan.

EDSP 6980	Comprehensive Examination	0
Total Units		**0**

Master of Arts in Rehabilitation Counseling

The Master of Arts in Rehabilitation Counseling offered by the College of Education is a three-year course of study. It is designed to prepare students to work with individuals with disabilities (including transition aged youth and veterans) in public and private rehabilitation agencies, hospitals, industry and related fields. Graduates of the program will be prepared to take the Certified Rehabilitation Counselor examination.

Rehabilitation counseling is a growing field in the mental health and allied health professions. A rehabilitation counselor helps individuals with disabilities achieve optimal social, psychological and vocational potential. Whenever possible, the final goal of rehabilitation is job placement.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. A baccalaureate degree with a major preferably in education, psychology, sociology, or a related social service field;
2. A cumulative undergraduate grade point average of 2.5 ("B") overall;
3. Completion of the graduate entrance writing requirement, as required;
4. Completion of an interview to assess competence in interpersonal skills and aptitudes for the rehabilitation counseling profession.

Advancement to Candidacy

In order to be formally advanced to candidacy, a student must have:

1. Achieved classified graduate standing;
2. Satisfactorily completed EREH 6615 and EREH 6616 with a grade of "B" (3.0) or better in each;
3. Secured approval of candidacy from the College of Education;
4. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor in the College of Education and approved by the College and the Dean of Graduate Studies.

Requirements for Graduation

1. A minimum of 60 semester units of acceptable work, with 42 completed in residence at this university;
2. A minimum of 40 semester units taken after a student has been advanced to candidacy for the degree;
3. Participation in a continual evaluation process assessing personality, character, professional ethics, aptitudes, counseling skills, dispositions, oral and written language usage;
4. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Arts degree requirements, including a minimum of a "B" in EREH 6615 and EREH 6616 and grades of "C" (2.0) or better in all courses in the program;
5. The Graduate Writing Assessment Requirement is met upon successful completion of EREH 6624;
6. Successful completion of the Certified Rehabilitation Counselor (CRC) Examination, which is a national certification examination given by the Commission on Rehabilitation Counselor Certification.

Degree Requirements (60 units)

(Program Code: EREH)

EREH 6615	Introduction to Rehabilitation Counseling	5
EREH 6616	Medical Aspects of Disability Across the Life Span	5
EREH 6617	Counseling Theories and Psychosocial Aspects in Rehabilitation	5
EREH 6618	Addictions & Co-Existing Disabilities	5
EREH 6619	Counseling Skills - Practicum	5
EREH 6620	Multicultural Rehabilitation Counseling	4
EREH 6621	Psychiatric Rehabilitation Diagnosis & Psychopharmacology	5
EREH 6622	Theoretical & Practical Applications of Case Management / Job Placement	5
EREH 6623	Theory and Practice of Group Counseling in Rehabilitation	4
EREH 6624	Assessment, Research & Program Evaluation	5
EREH 6625	Fieldwork in Rehabilitation Counseling	12
Culminating Experience		0
Total Units		**60**

Culminating Experience (0 units)

EREH 6980	Comprehensive Examination in Rehabilitation *	0
Total Units		**0**

* A grade of CR will be awarded upon successful completion of the Certified Rehabilitation Counselor (CRC) Examination, which is a national certification examination given by the Commission on Rehabilitation Counselor Certification. The exam is administered in March, July and October each year. Students need to apply and pay the examination fee. Students need to provide evidence of exam completion in the final semester of the academic program. Students must take the CRC Exam as part of EREH 6980 in order to complete the Master's degree program in Rehabilitation Counseling Master's Program. If a student does not pass the CRC on the first attempt, they need to retake the exam. If after the second attempt they do not pass the examination, the student needs to petition both the Dean of Graduate Studies and the Coordinator of the Rehabilitation Counseling Program, for permission to develop a plan of remediation in order to retake the CRC exam.

Master of Science in Counseling

The M.S. in Counseling is a professional program to prepare students for a successful career in the counseling profession. The program's emphasis on postmodern praxis and commitment to social justice sets the tone for preparing counselors who can respond to complex issues in a variety of settings. Students who complete the appropriate concentration within the degree can apply to the California Board of Behavioral Sciences to become Licensed Professional Clinical Counselors (LPCC). Coursework in the appropriate concentration prepares students to become counselors in grades K-12 by applying for the California Pupil Personnel Services School Counselor Credential (PPS). The degree offers three concentrations, School Counseling, Professional Counseling, or a dual concentration of School and Professional Counseling.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

- Must complete CSU Apply Application.
- Must apply directly to the concentration of interest; either School Counseling, Professional Counseling, or School and Professional Counseling Dual Concentration.
- Students must be admitted to CSUSB graduate studies and meet the general requirements of the university.
- GPA of 3.0 or higher from all previous undergraduate/graduate work.
- **Attending Information Sessions:** All prospective students are encouraged to attend one of our Counseling Program admission Information Sessions, where submission criteria and guidelines will be provided.
- **Review the CSUSB Master of Science in Counseling Program: Personal Statement Prompts and Evaluation Rubric (https://docs.google.com/document/d/1dxHjAblan6ez-zGXyZZzCAXRMae-q8Qo/edit/?usp=sharing&ouid=106459635171119189758&rtpof=true&sd=true)**: The personal statement prompts are designed to guide your reflection on key aspects of your background, experiences, and career goals. The evaluation rubric provides specific details on the additional documents required for your application, including your resume, three letters of recommendation, TB test results, and CTC clearance. You will be required to upload the following documents:
  - **Submission of Personal Statement of Interest:** As part of your application, you are required to submit a personal statement that provides insight into your experiences, values, and professional goals. Additionally, we provide an evaluation rubric that outlines the key criteria our admissions committee will use to assess your application. These criteria ensure a comprehensive review of your commitment to social justice, alignment with the program's mission, and potential contributions to the field of counseling. Please carefully review the prompts and rubric to ensure your personal statement is thorough, well-structured, and reflective of your passion for becoming a counselor.
  - **Submission of Current Resume:** When submitting your resume, please ensure it highlights your relevant academic background, professional experience, community service, and leadership roles. Focus on counseling-related experiences and any work with diverse populations. Your resume should demonstrate your commitment to the field and align with the program's mission and core values.
  - **Submission of Letters of Support:** *Three* Letters of support should come from individuals who can speak to your academic preparation, professional potential, and suitability for the counseling field. These letters should highlight your compassion, commitment to social justice, and values that align with the program. The letters should provide specific examples of your contributions and potential impact as a future counselor.
- The following items are required, and they must be submitted either at the time of admission or before the start of the fall semester to be conditionally admitted into the program:
  - **Evidence of current negative TB test:** Please indicate in your application that you are waiting on official confirmation if your clearance is pending);
  - **Evidence of valid Certificate of CTC Livescan Clearance (https://www.ctc.ca.gov/credentials/fee-and-fingerprint/):** Please indicate in your application that you are waiting on official confirmation if your clearance is pending) OR possession of a valid California teaching credential;
- Upon completion of the above requirements, the student's file will be reviewed by an admission committee composed of at least *three* members of the Counseling faculty.

Advancement to Candidacy

In order to be formally advanced to candidacy a student must have:

1. Completed 12 semester units of coursework with a grade point average of 3.0 ("B"), to include COUN 6220, COUN 6221; COUN 6222.
2. Filed an approved graduate program plan for completion of the degree. This must be prepared in consultation with a program advisor and approved by the program coordinator.

Requirements for Graduation

1. A minimum of 60 semester units of graduate-level work, with a minimum of 42 units completed in residency at this university. Students pursuing the dual concentration must complete a minimum of 49 units in residency;
2. A minimum of 20 semester units of credit taken after a student has been advanced to candidacy for the degree;
3. A grade point average of 3.0 (“B”) in course work taken to satisfy the degree requirements, including a minimum of a “B” in COUN 6220,

and COUN 6224, and no grade below a “B-” (2.7) in all other courses in the program;

4. The graduation writing requirement is met either through demonstrated competence by a passing grade on the writing assignment housed in COUN 6221 as specified in the course syllabus or the completion of an equivalent course.
5. Comprehensive examination, culminating experience, and/or through completion of a Master’s degree project;
6. Completion of a graduation requirement check;
7. Any additional requirements not cited above and listed in the requirements for a Master’s Degree are listed in the Graduate Degree and Program Requirements.

The comprehensive examination is designed to test the student’s knowledge of counseling. The examination is a standardized national exam, the Counselor Preparation Comprehensive Examination (CPCE). The student will take the examination during their final term. The student must be advanced to candidacy at least one semester before taking the comprehensive examination. The student must complete a graduation check with the Office of the Registrar before permission to take the examination can be granted. Students who do not receive a passing score may petition the program coordinator to retake the examination. Students who do not receive a passing score the second time must petition the Dean of Graduate Studies to retake the exam. Approval to retake the examination may be, at any time, contingent upon completion of additional designated courses.

A Master’s project, including other media, can be reported as a paper. The project must be approved by the student’s advisor and one other professor in the College of Education and submitted in an approved format. Further information is available in the Graduate Thesis and Project handbook available through the Graduate Studies Office. Students who elect to complete a project are not required to take a comprehensive exam.

Degree Requirements (60-69 units)

COUN 6220	Introduction to Counseling	3
COUN 6221	Introduction to Research & Evaluation	3
COUN 6222	Law & Ethics in Counseling	3
COUN 6224	Advanced Counseling	3
COUN 6226	Conflict Resolution	3
COUN 6227	Counseling Theories	3
COUN 6229	Socio-Cultural Counseling	3
COUN 6230	Human Development in Counseling	3
COUN 6231	Group Counseling	3
COUN 6232	Career Counseling	3
COUN 6233	Practice Based Placement (Must be taken for a minimum of 6 units and a maximum of 12 units in consultation with advisor)	6
COUN 6237	Appraisal	3
Culminating Experience (0)		**0**
Concentration (21-30)		
Students must satisfy the requirements of one of the concentrations listed below.		21-30
Total Units		**60-69**

Culminating Experience (0 units)

Students must choose one of the following:

COUN 6980	Comprehensive Examination	0
COUN 6960	Master's Degree Project	0
Total Units		**0**

Concentrations (21-30 units)

School Counseling Concentration (21 units)

(Program Code: CSCC)

COUN 6223	Learning Theories	3
COUN 6225	Systems Consultation	3
COUN 6240	Professional School Counseling	3
COUN 6235	Crisis and Trauma Counseling	3
COUN 6239	Family Counseling	3
COUN 6238	Aging, Death & Grief in Couples & Families	3
COUN 6241	Gender & Sexuality	3
Total Units		**21**

Professional Counseling Concentration (21 units)

(Program Code: CPCC)

COUN 6228	Addictions Counseling	3
COUN 6235	Crisis and Trauma Counseling	3
COUN 6234	Diagnosis	3
COUN 6236	Psychopharmacology	3
COUN 6239	Family Counseling	3
COUN 6238	Aging, Death & Grief in Couples & Families	3
COUN 6241	Gender & Sexuality	3
Total Units		**21**

School and Professional Counseling Dual Concentration (30 units)

(Program Code: CSPC)

COUN 6223	Learning Theories	3
COUN 6225	Systems Consultation	3
COUN 6240	Professional School Counseling	3
COUN 6228	Addictions Counseling	3
COUN 6235	Crisis and Trauma Counseling	3
COUN 6236	Psychopharmacology	3
COUN 6239	Family Counseling	3
COUN 6238	Aging, Death & Grief in Couples & Families	3
COUN 6241	Gender & Sexuality	3

COUN 6234	Diagnosis	3
Total Units		**30**

Master of Science in Special Education

The Master of Science in Special Education will provide students with advanced preparation in research methodologies and research--based practices that address contemporary topics and issues in the field of Special Education. Options for emphases in Early Childhood Special Education, Mild to Moderate Support Needs, and Extensive Support Needs are available. The Special Education program recommends that students pursuing the Master of Science degree in Special Education be concurrently enrolled in an Education Specialist credential program. Students pursuing the degree only must have permission from the Special Education Program Coordinator.

Admission to the Program

In preparation for admission to the basic program, applicants must review the Special Education Credential Program Admission Booklet which can be downloaded at CSU Special Education Program website and attend a mandatory Information Session. The schedule for Information Sessions may be obtained on the CSUSB Special Education webpage.

1. Two written recommendations by persons who can address scholastic performance;
2. Verification of a negative tuberculin examination within the last four years;
3. Academic Achievement, verified through official transcripts from ALL institutions of higher education attended. Applicants must possess a minimum undergraduate grade point average of at least 3.0 in all baccalaureate and post-baccalaureate course work or at least 3.0 in the last 60 semester or 90 quarter units attempted;
4. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
5. Satisfactory completion of prerequisite courses, ESPE 5530 and ESPE 5531, with a grade of "B" or better.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Students admitted in this category may be changed to classified standing with approval of the College of Education. No more than 12 semester units may be used to demonstrate fitness to complete the program.

Advancement to Candidacy

In addition to the above program admission requirements, master's degree candidates must successfully complete the following requirements in order to be advanced to candidacy:

1. Achieve full (classified) admission to the M.S. in Special Education program;
2. Secure approval of candidacy from the College of Education;
3. File an approved graduate program for completion of the degree. This must be prepared in consultation with an assigned advisor in the College of Education and approved by the coordinator of the Special Education program.

Note: Advancement to candidacy must be processed prior to completion of 12 semester units of master's degree course work. Candidates will not be permitted to take the comprehensive examination in the same semester they are advanced to candidacy.

Requirements for Graduation

In addition to requirements listed in Graduate Degree and Program Requirements, candidates must meet the following requirements for graduation:

1. A minimum of 33-semester units of acceptable work, with a minimum of 24-semester units completed at this university. Note: The program may not include more than 9-semester units in approved CSUSB extension or transfer courses from other colleges/universities. CSUSB will not consider the transfer of course work from an institution that will not accept that work towards its own advanced degree program.
2. A grade point average of 3.0 ("B") in course work taken to satisfy the Master of Science degree requirements with no grade lower than a "B-" in all courses in the program;
3. Successful completion of the project/thesis and/or comprehensive examination.

Degree Requirements (33 units)

Core course requirements (21)		
ESPE 5532	Language Development in Diverse Learners	3
ESPE 6631	Assessment for Planning and Instruction	3
ESPE 6632	Supportive Learning Environments	3
ESPE 6633	Methods to Support Inclusive Learning	3
ESPE 6639	Collaboration and Consultation in Special Education	3
ESPE 6601	Critical Issues in Special Education	3
ESPE 6602	Research in Special Education	3
Emphasis course requirements (9)		**9**
Students must choose one of the following options:		
Early Childhood Special Education		
ESPE 6637	Seminar on Language and Literacy in Early Childhood Special Education	
ESPE 6672	Birth to Age Three Methods in Early Childhood Special Education	
ESPE 6673	Preschool through Kindergarten Methods in Early Childhood Special Education	
Mild to Moderate Support Needs		
ESPE 6635	Seminar in Literacy Learning for K-12 Students with Special Needs (Mild to Moderate Support Needs option)	
ESPE 6642	Methods for Students with Mild to Moderate Support Needs I	
ESPE 6643	Methods for Students with Mild to Moderate Support Needs II	
Extensive Support Needs		
ESPE 6635	Seminar in Literacy Learning for K-12 Students with Special Needs	
ESPE 6662	Methods for Students with Extensive Support Needs I	

ESPE 6663	Methods for Students with Extensive Support Needs II	
Culminating Experience (3)		**3**
Students must choose ONE of the following options to demonstrate the Graduate Exit Writing Requirement: Project or Comprehensive Exam		
Total Units		**33**

Culminating Experience (3 units)

Successful completion of a project/thesis and/or the comprehensive examination is required.

Project Option (3 units)

A satisfactory project is one which must be reported in the form of a paper. The purpose of the project is for the candidate to communicate ideas gained in research, experimentation and creative endeavors; therefore, candidates should not feel bound to traditional forms. The project proposal and the project must be approved by the candidate's project advisor and one other professor in the College of Education and submitted in an approved format. Further information is available from the College of Education regarding an approved format for the project proposal and project. Candidates who elect to complete a project are not required to take a comprehensive examination.

ESPE 6960	Master of Science in Special Education Project	3
Total Units		**3**

Comprehensive Exam Option (3 units)

The comprehensive examination is of an integrative nature and is designed to test the candidate's knowledge of a specific field, rather than subject matter of courses taken. The examination is offered once each semester. The candidate may enroll in the examination no earlier than the last semester in which coursework ~~course work~~ is taken. The candidate must complete a graduation check with the Registrar's Office before permission to take the examination can be granted. Candidates who do not receive a passing score may petition the College of Education to retake the examination or any part of it. Candidates who do not receive a passing score the second time must petition the Dean of Graduate Studies to retake the examination. Approval to retake the examination may be, at any time, contingent upon completion of additional designated courses.

ESPE 6665	Seminar in Special Education	3
ESPE 6980	Comprehensive Examination	0
Total Units		**3**

Internship Education Specialist Credential: Mild/Moderate Disabilities with EL Authorization

Basic Teaching Credentials

The CSU prepares teachers for positions in California as well as other states. It is in the student's best interest to be knowledgeable about credential or licensure requirements of the state in which they intend to teach.

The Preliminary Education Specialist credential with an authorization in Mild to Moderate Support Needs (MMSN) is intended to prepare teachers to serve students across a range of disabilities. The program at CSUSB is accredited by the California Commission on Teacher Credentialing (CTC). The Mild to Moderate Special Education Intern Program is an alternative certification program in which interns are employed full-time as Special Education teachers while earning the Preliminary Education Specialist Credential for Mild to Moderate Support Needs. All requirements must be completed in two years.

Supervised internship fieldwork and clinical practice is completed in the district of employment within San Bernardino and Riverside counties. The intern is supervised jointly by a district employed mentor teacher and university employed supervisor. Supervision by the university is an in-person learning experience. The program also meets state standards authorizing instruction to English learners to develop English language skills including reading.

Mild to Moderate Support Needs includes providing specially designed instruction to access grade level California Content Standards in the Least Restrictive Environment. The education specialist provides instruction and supports in one or more of the following domains: academics, communication, gross/fine motor, social-emotional, behavioral, vocational, and learning environment access skills. The supports may also include health, movement and sensory support. Mild to Moderate Support Needs practices may include lower student to educator ratio.

The Education Specialist Instruction Credential: Mild to Moderate Support Needs authorizes the holder to conduct Educational Assessments related to students' access to the academic curriculum and progress towards meeting instructional goals, provide instruction, and Special Education Support to students with mild to moderate support needs related to one or more of the following disabilities: autism, emotional disturbance, intellectual disability, multiple disabilities, orthopedic impairment, other health impairment, specific learning disability, and traumatic brain injury; in kindergarten, including transitional kindergarten, grades 1-12 through age 22, and classes organized primarily for adults in services across the continuum of program options available.

Admission to the Program

Applicants must apply to the program at Cal State Apply (https://www.calstate.edu/apply (https://www.calstate.edu/apply/)) to be considered for admission to the Preliminary Education Specialist Credential Program in Mild to Moderate Support Needs. Applicants must meet BOTH the general requirements of the university for post baccalaureate admission and the program requirements in order to be admitted to the university and classified as a credential candidate. In preparation for admission to the basic credential program, applicants must review the Special Education Credential Program Admission Booklet which can be downloaded from the Special Education Program web pages on the CSUSB website at: CSU Special Education Programs website (http://www.csusb.edu/coe/programs/special_ed/) and attend a mandatory Information Session scheduled through Teacher Education in the College of Education Student Services at either the San Bernardino or Palm Desert campus. At this session, applicants will receive instructions for completing their application to CalState Apply. Applicants must submit to the Admissions staff in the College of Education Student Services according to the deadlines published for the semester of admission. Admission to the program is based on the following requirements included in the Cal State Apply application:

1. Completion of an application form;
2. Original verification of meeting the basic skills requirement by one of the following methods:
   a. Pass the California Basic Educational Skills Test (CBEST);
   b. Pass the California Subject Examinations for Teachers (CSET) Multiple Subjects Plus Writing Skills examination;
   c. Pass the CSU Early Assessment Program or the CSU Placement Examination;
   d. Achieve qualifying score on the SAT or ACT;
   e. College Board Advanced Placement (AP) Examinations;
   f. Pass basic skills examination from another state;
   g. Meet the basic skills requirement by coursework;
   h. Meet the basic skills requirement by coursework and exam.
3. Original verification of subject matter knowledge by one of the following:
   a. passage of CSET examination(s) as appropriate for the multiple subject credential, or for the single subject credential in the areas of art, English, foreign language, mathematics including foundational-level mathematics, music, social science, or science including foundational-level general science and specialized science; or
   b. by completion of a subject matter program as appropriate for the multiple subject credential, or for the single subject credential in the areas of art, English, foreign language, mathematics including foundational-level mathematics, music, social science, or science including foundational-level general science and specialized science;
   c. verification of holding a valid California clear, professional clear, preliminary, Level I, or life teaching credential requiring a baccalaureate or higher degree, verification of subject-matter competence, and a program of professional preparation, including student teaching.
4. All applicants are required to enter two names and emails addresses of persons who can address scholastic performance and suitability for teaching (recommendations are required to be submitted by the program deadline date, letters of recommendation will not be accepted);
5. A written personal narrative to be reviewed and approved by the Special Education Program Coordinator;
6. Verification of a negative tuberculin examination within the last four years;
7. Academic achievement, verified through official transcripts from ALL institutions of higher education attended. Applicants must possess a minimum undergraduate grade point average of at least 2.67 in all baccalaureate and postbaccalaureate course work or at least 2.75 in the last 60 semester or 90 quarter units attempted;
8. Documentation of 45 hours of experience in K-12 classrooms;
9. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
10. Verification of attendance at a Special Education Information Session;
11. Satisfactory completion of prerequisite courses with a grade of "B" or better:

ESPE 5530	Introduction to Special Education	3
ESPE 5531	Methods and Procedures in Special Education	3

Upon admission to the university and the Preliminary Education Specialist Credential Program, all candidates must attend the mandatory New Student Orientation. At this session, candidates will receive a program handbook and will be advised on completing an approved Coursework Plan.

Eligibility for the Internship Program (9 units)

In addition to meeting the general requirements for admission to the university and the Special Education Credential program, eligibility for the Internship program requires the following:

1. Submission of application for the Internship Education Specialist Credential: Mild to Moderate Support Needs;
2. Satisfactory completion of program prerequisite/pre-service coursework requirements with a grade of "B-" or better unless otherwise specified:

ESPE 5530	Introduction to Special Education	3
ESPE 5531	Methods and Procedures in Special Education	3
ESPE 5532	Language Development in Diverse Learners	3

   Note: These courses may be included in Internship Program Requirements if pre-service requirements are met through possession of valid California Multiple Subjects or Single Subject Teaching credential.
3. Preparation to teach English learners must be verified by one of the following:
   a. Pre-service EL coursework/instruction;
   b. Valid California Credential with EL Authorization;
   c. CLAD/BCLAD Certification;
   d. Interview by university/school district representatives at the discretion of the Intern Program Coordinator.

Recommendation for the Internship Education Specialist Credential: Mild to Moderate Support Needs:

In addition to classified program admission and successful verification of eligibility for the internship program, the candidate must successfully complete the following requirements in order to be recommended for the Internship Education Specialist Credential in Mild to Moderate Support Needs:

1. Employment in settings appropriate for the Education Specialist credential with the authorization in Mild to Moderate Support Needs in a participating school district, verified by a copy of the contract indicating the beginning date of employment as an intern (Month/Day/Year) with the authorized signature as designated by the school district personnel office. The recommended credential issuance date will be the date the employing school district specifies on this contract as the beginning date of service;
2. Application for On-line Recommendation submitted to Credential Processing in the College of Education Student Services;
3. Completion of the U.S. Constitution requirement by one of the following:

HIST 1460	History of the United States: Pre-Colonization to Present	3
HIST 2000	United States History to 1877	3
HIST 5400	Constitutional History of the United States	3

PSCI 2030	Government of the United States	3
PSCI 4100	American Constitutional Law	3
PSCI 4110	The Bill of Rights	3
Successful completion of an examination administered through the College of Extended Learning;		
Approved U.S. Constitution course substitution at another university.		

Recommendation for the Preliminary Education Specialist Credential: Mild to Moderate Support Needs

In addition to credential and degree course work, candidates must successfully complete the following exit requirements to be recommended for the Preliminary Education Specialist Credential: Mild to Moderate Support Needs:

1. A grade point average of 3.0 ("B") in professional education course work, with no course grade lower than a "B-;"
2. Completion of the upper-division writing requirement;
3. Application for On-line Recommendation submitted to Credential Processing in the College of Education Student Services.

Credential Requirements (47 units)

All requirements must be met within the term of the internship credential (two years). Completion of the following courses with a grade point average of 3.0 or better with no grade lower than a "B-:"

ESPE 6631	Assessment for Planning and Instruction	3
ESPE 6633	Methods to Support Inclusive Learning	3
ESPE 6634	Practicum: Methods to Support Inclusive Learning	1
ESPE 6632	Supportive Learning Environments	3
ESPE 6635	Seminar in Literacy Learning for K-12 Students with Special Needs	3
ESPE 6636	Practicum: Seminar in Literacy Learning for K-12 Students with Special Needs	1
ESPE 6639	Collaboration and Consultation in Special Education	3
ESPE 6642	Methods for Students with Mild to Moderate Support Needs I	3
ESPE 6643	Methods for Students with Mild to Moderate Support Needs II	3
ESPE 6622	Supervised Intern Teaching in Special Education: Mild to Moderate Support Needs	24
Total Units		**47**

Internship Education Specialist Credential: Moderate/Severe Disabilities with EL Authorization

Basic Teaching Credentials

The CSU prepares teachers for positions in California as well as other states. It is in the student's best interest to be knowledgeable about credential or licensure requirements of the state in which they intend to teach.

The Preliminary Education Specialist credential with an authorization in Extensive Support Needs (ESN) is intended to prepare teachers to serve students across a range of disabilities.The program at CSUSB is accredited by the California Commission on Teacher Credentialing (CTC). The Extensive Support Needs Intern Program is an alternative certification program in which interns are employed full-time as Special Education teachers while earning the Preliminary Education Specialist Credential for Extensive Support Needs. All requirements must be completed in two years.

Supervised internship fieldwork and clinical practice is completed in the district of employment within San Bernardino and Riverside counties. The intern is supervised jointly by a district employed mentor teacher and university employed supervisor. Supervision by the university is an in-person learning experience. The program also meets state standards authorizing instruction to English learners to develop English language skills including reading.

Extensive Support Needs include providing specially designed instruction to access grade level California Content Standards in the Least Restrictive Environment. The education specialist provides intensive instruction and supports in two or more of the following domains: academics, communication, gross/fine motor, social-emotional, behavioral, vocational and adaptive/daily living skills. The supports also often include health, movement and sensory support. Extensive Support Needs practices include lower student to educator ratio.

The Education Specialist Instruction Credential: Extensive Support Needs authorizes the holder to conduct educational assessments related to students' access to the academic curriculum and progress towards meeting instructional goals, provide instruction, and special education support to students with extensive support needs related to one or more of the following disabilities: autism, deafblind, emotional disturbance, intellectual disability, multiple disabilities, orthopedic impairment, other health impairment, specific learning disability, and traumatic brain injury; in kindergarten, including transitional kindergarten, grades 1-12 through age 22, and classes organized primarily for adults in services across the continuum of program options available.

Admission to the Program

Applicants must apply to the program at Cal State Apply (https://www.calstate.edu/apply (https://www.calstate.edu/apply/)) to be considered for admission to the Preliminary Education Specialist Credential Program in Extensive Support Needs. Applicants must meet BOTH the general requirements of the university for post baccalaureate admission and the program requirements in order to be admitted to the university and classified as a credential candidate. In preparation for admission to the basic credential program, applicants must review the Special Education Credential Program Admission Booklet which can be downloaded from the Special Education Program web pages on the CSUSB website at: CSU Special Education Programs website (http://www.csusb.edu/coe/programs/special_ed/) and attend a mandatory Information Session scheduled through Teacher Education in the College of Education Student Services at either the San Bernardino or Palm Desert campus. At this session, applicants will receive instructions for completing their application to CalState Apply. Applicants must submit to the Admissions staff in the College of Education Student Services according to the deadlines published for the semester of admission.

Admission to the program is based on the following requirements included in the Cal State Apply application:

1. Completion of an application form;
2. Original verification of meeting the basic skills requirement by one of the following methods:
   a. Pass the California Basic Educational Skills Test (CBEST);
   b. Pass the California Subject Examinations for Teachers (CSET) Multiple Subjects Plus Writing Skills examination;
   c. Pass the CSU Early Assessment Program or the CSU Placement Examination;
   d. Achieve qualifying score on the SAT or ACT;
   e. College Board Advanced Placement (AP) Examinations;
   f. Pass basic skills examination from another state;
   g. Meet the basic skills requirement by coursework;
   h. Meet the basic skills requirement by coursework and exam.
3. Original verification of subject matter knowledge by one of the following:
   a. passage of CSET examination(s) as appropriate for the multiple subject credential, or for the single subject credential in the areas of art, English, foreign language, mathematics including foundational-level mathematics, music, social science, or science including foundational-level general science and specialized science; or
   b. by completion of a subject matter program as appropriate for the multiple subject credential, or for the single subject credential in the areas of art, English, foreign language, mathematics including foundational-level mathematics, music, social science, or science including foundational-level general science and specialized science;
   c. verification of holding a valid California clear, professional clear, preliminary, Level I, or life teaching credential requiring a baccalaureate or higher degree, verification of subject-matter competence, and a program of professional preparation, including student teaching.
4. All applicants are required to enter two names and emails addresses of persons who can address scholastic performance and suitability for teaching (recommendations are required to be submitted by the program deadline date, letters of recommendation will not be accepted);
5. A written personal narrative to be reviewed and approved by the Special Education Program Coordinator;
6. Verification of a negative tuberculin examination within the last four years;
7. Academic achievement, verified through official transcripts from ALL institutions of higher education attended. Applicants must possess a minimum undergraduate grade point average of at least 2.67 in all baccalaureate and postbaccalaureate course work or at least 2.75 in the last 60 semester or 90 quarter units attempted;
8. Documentation of 45 hours of experience in K-12 classrooms;
9. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
10. Verification of attendance at a Special Education Information Session;
11. Satisfactory completion of prerequisite courses with a grade of "B" or better:

ESPE 5530	Introduction to Special Education	3
ESPE 5531	Methods and Procedures in Special Education	3

Upon admission to the university and the Preliminary Education Specialist Credential Program, all candidates must attend the mandatory New Student Orientation. At this session, candidates will receive a program handbook and will be advised on completing an approved Coursework Plan.

Eligibility for the Internship Program (9 units)

In addition to meeting the general requirements for admission to the university and the Special Education Credential program, eligibility for the Internship program requires the following:

1. Submission of application for the Internship Education Specialist Credential: Moderate/Severe Disabilities;
2. Satisfactory completion of prerequisite/pre-service coursework requirements with a grade of "B-" or better unless otherwise specified:

ESPE 5530	Introduction to Special Education	3
ESPE 5531	Methods and Procedures in Special Education	3
ESPE 5532	Language Development in Diverse Learners	3

   Note: These courses may be included in Internship Program Requirements if pre-service requirements are met through possession of valid California Multiple Subjects or Single Subject Teaching credential.
3. Preparation to teach English learners must be verified by one of the following:
   a. Pre-service EL coursework/instruction;
   b. Valid California Credential with EL Authorization;
   c. CLAD/BCLAD Certification;
4. Interview by university/school district representatives at the discretion of the Intern Program Coordinator.

Recommendation for the Internship Education Specialist Credential: Extensive Support Needs

In addition to classified program admission and successful verification of eligibility for the internship program, the candidate must successfully complete the following requirements in order to be recommended for the Internship Education Specialist Credential in Extensive Support Needs:

1. Employment in a setting appropriate for the holder of an Education Specialist credential with an authorization in Extensive Support Needs in a participating school district, verified by a copy of the contract indicating the beginning date of employment as an intern (Month/Day/Year) with the authorized signature as designated by the school district personnel office. The recommended credential issuance date will be the date the employing school district specifies on this contract as the beginning date of service;
2. Application for On-line Recommendation submitted to Credential Processing in the College of Education Student Services;
3. Completion of the U.S. Constitution requirement by one of the following:

HIST 1460	History of the United States: Pre-Colonization to Present	3
HIST 2000	United States History to 1877	3

HIST 5400	Constitutional History of the United States	3
PSCI 2030	Government of the United States	3
PSCI 4100	American Constitutional Law	3
PSCI 4110	The Bill of Rights	3
Successful completion of an examination administered through the College of Extended Learning;		
Approved U.S. Constitution course substitution at another university.		

Recommendation for the Preliminary Education Specialist Credential: Extensive Support Needs

In addition to credential and degree course work, candidates must successfully complete the following exit requirements to be recommended for the Preliminary Education Specialist Credential: Extensive Support Needs:

1. A grade point average of 3.0 ("B") in professional education course work, with no course grade lower than a "B-;"
2. Completion of the upper-division writing requirement;
3. Verification of a passing score on the RICA (Reading Instruction Competence Assessment).
   Note: Holders of a valid California teaching credential based on a baccalaureate degree and completion of a teacher education program including student teaching, will be exempt from RICA. Contact the Credentials Office for further information, (909) 537-5609.
4. Application for On-line Recommendation submitted to Credential Processing in the College of Education Student Services.

Credential Requirements (47 units)

All requirements must be met within the term of the internship credential (two years). Completion of the following courses with a grade point average of 3.0 or better with no grade lower than a "B-:"

ESPE 6631	Assessment for Planning and Instruction	3
ESPE 6633	Methods to Support Inclusive Learning	3
ESPE 6634	Practicum: Methods to Support Inclusive Learning	1
ESPE 6632	Supportive Learning Environments	3
ESPE 6635	Seminar in Literacy Learning for K-12 Students with Special Needs	3
ESPE 6636	Practicum: Seminar in Literacy Learning for K-12 Students with Special Needs	1
ESPE 6639	Collaboration and Consultation in Special Education	3
ESPE 6662	Methods for Students with Extensive Support Needs I	3
ESPE 6663	Methods for Students with Extensive Support Needs II	3
ESPE 6623	Supervised Intern Teaching in Special Education: Extensive Support Needs	24
Total Units		**47**

Internship Education Specialist Credential: Early Childhood Special Education with EL Authorization

Basic Teaching Credentials

The CSU prepares teachers for positions in California as well as other states. It is in the student's best interest to be knowledgeable about credential or licensure requirements of the state in which they intend to teach.

The Preliminary Education Specialist credential with an authorization in Early Childhood Special Education (ECSE) is intended to prepare teachers to serve students across a range of disabilities and extends the authorization to serve learners through kindergarten. The program at CSUSB is accredited by the California Commission on Teacher Credentialing (CTC). The Early Childhood Special Education Intern Program is an alternative certification program in which interns are employed full-time as Special Education teachers for children with disabilities between the ages of birth and kindergarten while earning the Preliminary Education Specialist Credential for Early Childhood Special Education. All requirements must be completed in two years.

Supervised internship fieldwork and clinical practice is completed in the district of employment within San Bernardino and Riverside counties. The intern is supervised jointly by a district employed mentor teacher and university employed supervisor. Supervision by the university is an in-person learning experience. The program also meets state standards authorizing instruction to English learners to develop English language skills including reading.

The Education Specialist: Early Childhood Special Education credential authorizes the holder to conduct educational assessments related to students' access to the academic curriculum and progress towards meeting instructional academic goals; and provide instruction and special education support to students from birth through kindergarten who are eligible for early intervention special education and related services related to one or more of the following disabilities: autism, emotional disturbance, intellectual disability, orthopedic impairment, other health impairment, specific learning disability, traumatic brain injury, and multiple disabilities including developmental delay and a disabling medical condition in services across the continuum of program options available.

Admission to the Program

Applicants must apply to the program at Cal State Apply (https://www.calstate.edu/apply (https://www.calstate.edu/apply/)) to be considered for admission to the Preliminary Education Specialist Credential Program in Early Childhood Special Education. Applicants must meet BOTH the general requirements of the university for post baccalaureate admission and the program requirements in order to be admitted to the university and classified as a credential candidate. In preparation for admission to the basic credential program, applicants must review the Special Education Credential Program Admission Booklet which can be downloaded from the Special Education Program web pages on the CSUSB website at: CSU Special Education Programs website (http://www.csusb.edu/coe/programs/special_ed/) and attend a mandatory Information Session scheduled through Teacher Education in the College of Education Student Services at either the San Bernardino or Palm Desert campus. At this session, applicants will receive instructions

for completing their application to CalState Apply. Applicants must submit to the Admissions staff in the College of Education Student Services according to the deadlines published for the semester of admission. Admission to the program is based on the following requirements included in the Cal State Apply application:

1. Completion of an application form;
2. Original verification of meeting the basic skills requirement by one of the following methods:
   a. Pass the California Basic Educational Skills Test (CBEST);
   b. Pass the California Subject Examinations for Teachers (CSET) Multiple Subjects Plus Writing Skills examination;
   c. Pass the CSU Early Assessment Program or the CSU Placement Examination;
   d. Achieve qualifying score on the SAT or ACT;
   e. College Board Advanced Placement (AP) Examinations;
   f. Pass basic skills examination from another state;
   g. Meet the basic skills requirement by coursework;
   h. Meet the basic skills requirement by coursework and exam.
3. All applicants are required to enter two names and emails addresses of persons who can address scholastic performance and suitability for teaching (recommendations are required to be submitted by the program deadline date, letters of recommendation will not be accepted);
4. A written personal narrative to be reviewed and approved by the Special Education Program Coordinator;
5. Verification of a negative tuberculin examination within the last four years;
6. Academic achievement, verified through official transcripts from ALL institutions of higher education attended. Applicants must possess a minimum undergraduate grade point average of at least 2.67 in all baccalaureate and postbaccalaureate course work or at least 2.75 in the last 60 semester or 90 quarter units attempted;
7. Documentation of 45 hours of experience in early childhood and special education settings;
8. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
9. Verification of attendance at a Special Education Information Session
10. Satisfactory completion of prerequisite courses with a grade of "B" or better:

ESPE 5530	Introduction to Special Education	3
ESPE 5531	Methods and Procedures in Special Education	3
Total Units		**6**

Upon admission to the university and the Preliminary Education Specialist Credential Program, all candidates must attend the mandatory New Student Orientation. At this session, candidates will receive a program handbook and will be advised on completing an approved Coursework Plan.

Eligibility for the Internship Program (9 units)

In addition to meeting the general requirements for admission to the university and the Special Education Credential program, eligibility for the Internship program requires the following:

1. Submission of application for the Internship Education Specialist Credential: Early Childhood Special Education;
2. Satisfactory completion of program prerequisite/pre-service coursework requirements with a grade of "B-" or better unless otherwise specified:

ESPE 5530	Introduction to Special Education	3
ESPE 5531	Methods and Procedures in Special Education	3
ESPE 5532	Language Development in Diverse Learners	3

   Note: These courses may be included in Internship Program Requirements if pre-service requirements are met through possession of valid California Multiple Subjects or Single Subject Teaching credential.
3. Preparation to teach English learners must be verified by one of the following:
   a. Pre-service EL coursework/instruction;
   b. Valid California Credential with EL Authorization;
   c. CLAD/BCLAD Certification;
   d. Interview by university/school district representatives at the discretion of the Intern Program Coordinator.

Recommendation for the Internship Education Specialist Credential: Early Childhood Special Education

In addition to classified program admission and successful verification of eligibility for the internship program, the candidate must successfully complete the following requirements in order to be recommended for the Internship Education Specialist Credential in Early Childhood Special Education:

1. Employment as a special day class teacher for children with disabilities between the ages of birth and kindergarten in a participating school district, verified by a copy of the contract indicating the beginning date of employment as an intern (Month/Day/Year) with the authorized signature as designated by the school district personnel office. The recommended credential issuance date will be the date the employing school district specifies on this contract as the beginning date of service;
2. Application for On-line Recommendation submitted to Credential Processing in the College of Education Student Services;
3. Completion of the U.S. Constitution requirement by one of the following:

HIST 1460	History of the United States: Pre-Colonization to Present	3
HIST 2000	United States History to 1877	3
HIST 5400	Constitutional History of the United States	3
PSCI 2030	Government of the United States	3
PSCI 4100	American Constitutional Law	3
PSCI 4110	The Bill of Rights	3
Successful completion of an examination administered through the College of Extended Learning;		
Approved U.S. Constitution course substitution at another university.		

Recommendation for the Preliminary Education Specialist Credential: Early Childhood Special Education

In addition to credential and degree course work, candidates must successfully complete the following exit requirements to be recommended for the Preliminary Education Specialist Credential: Early Childhood Special Education:

1. A grade point average of 3.0 ("B") in professional education course work, with no course grade lower than a "B-;"
2. Completion of the upper-division writing requirement;
3. Application for On-line Recommendation submitted to Credential Processing in the College of Education Student Services.

Credential Requirements (47 units)

All requirements must be met within the term of the internship credential (two years). Completion of the following courses with a grade point average of 3.0 or better with no grade lower than a "B-:"

ESPE 6631	Assessment for Planning and Instruction	3
ESPE 6633	Methods to Support Inclusive Learning	3
ESPE 6634	Practicum: Methods to Support Inclusive Learning	1
ESPE 6632	Supportive Learning Environments	3
ESPE 6637	Seminar on Language and Literacy in Early Childhood Special Education	3
ESPE 6638	Practicum: Seminar on Language and Literacy in Early Childhood Education	1
ESPE 6639	Collaboration and Consultation in Special Education	3
ESPE 6672	Birth to Age Three Methods in Early Childhood Special Education	3
ESPE 6673	Preschool through Kindergarten Methods in Early Childhood Special Education	3
ESPE 6624	Supervised Intern Teaching in Special Education: Early Childhood Special Education	24
Total Units		**47**

Preliminary Education Specialist Credential: Early Childhood Special Education with EL Authorization

Basic Teaching Credentials

The CSU prepares teachers for positions in California as well as other states. It is in the student's best interest to be knowledgeable about credential or licensure requirements of the state in which they intend to teach.

The Preliminary Education Specialist credential with an authorization in Early Childhood Special Education (ECSE) is intended to prepare teachers to serve students across a range of disabilities. The program at CSUSB is accredited by the California Commission on Teacher Credentialing (CTC) and requires early fieldwork and supervised clinical practice for a total of 600 hours in school settings within San Bernardino and Riverside counties. Field work experiences totaling 200 hours are embedded in the credential coursework and practicum. Supervised clinical practice totaling 400 hours is completed in schools within partnering districts in San Bernardino and Riverside counties supervised jointly by a district employed cooperating teacher and university employed supervisor. Supervision by the university is an in-person learning experience. The program also meets state standards authorizing instruction to English learners to develop English language skills including reading.

The Preliminary Education Specialist credential with an authorization in Early Childhood Special Education (ECSE) is intended to better prepare teachers to serve students across a range of disabilities and extends the authorization to serve learners through kindergarten.

The Education Specialist: Early Childhood Special Education credential authorizes the holder to conduct educational assessments related to students' access to the academic curriculum and progress towards meeting instructional academic goals; and provide instruction and special education support to students from birth through kindergarten who are eligible for early intervention special education and related services related to one or more of the following disabilities: autism, emotional disturbance, intellectual disability, orthopedic impairment, other health impairment, specific learning disability, traumatic brain injury, and multiple disabilities including developmental delay and a disabling medical condition in services across the continuum of program options available.

Admission to the Program

Applicants must apply to the program at Cal State Apply (https://www.calstate.edu/apply (https://www.calstate.edu/apply/)) to be considered for admission to the Preliminary Education Specialist Credential Program in Early Childhood Special Education. Applicants must meet BOTH the general requirements of the university for post baccalaureate admission and the program requirements in order to be admitted to the university and classified as a credential candidate. In preparation for admission to the basic credential program, applicants must review the Special Education Credential Program Admission Booklet which can be downloaded from the Special Education Program web pages on the CSUSB website at: CSU Special Education Programs website (http://www.csusb.edu/coe/programs/special_ed/) and attend a mandatory Information Session scheduled through Teacher Education in the College of Education Student Services at either the San Bernardino or Palm Desert campus. At this session, applicants will receive instructions for completing their application to CalState Apply. Applicants must submit to the Admissions staff in the College of Education Student Services according to the deadlines published for the semester of admission. Admission to the program is based on the following requirements included in the Cal State Apply application:

1. Completion of an application form;
2. Original verification of meeting the basic skills requirement by one of the following methods:
   a. Pass the California Basic Educational Skills Test (CBEST);
   b. Pass the California Subject Examinations for Teachers (CSET) Multiple Subjects Plus Writing Skills examination;
   c. Pass the CSU Early Assessment Program or the CSU Placement Examination;
   d. Achieve qualifying score on the SAT or ACT;
   e. College Board Advanced Placement (AP) Examinations;
   f. Pass basic skills examination from another state;

g. Meet the basic skills requirement by coursework;
h. Meet the basic skills requirement by coursework and exam.

3. All applicants are required to enter two names and emails addresses of persons who can address scholastic performance and suitability for teaching (recommendations are required to be submitted by the program deadline date, letters of recommendation will not be accepted);
4. A written personal narrative to be reviewed and approved by the Special Education Program Coordinator;
5. Verification of a negative tuberculin examination within the last four years;
6. Academic achievement, verified through official transcripts from ALL institutions of higher education attended. Applicants must possess a minimum undergraduate grade point average of at least 2.67 in all baccalaureate and postbaccalaureate course work or at least 2.75 in the last 60 semester or 90 quarter units attempted;
7. Documentation of 45 hours of experience in early childhood and special education settings;
8. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
9. Verification of attendance at a Special Education Information Session;
10. Satisfactory completion of prerequisite courses with a grade of "B" or better **(6 units)**:

ESPE 5530	Introduction to Special Education	3
ESPE 5531	Methods and Procedures in Special Education	3
Total Units		**6**

Upon admission to the university and the Preliminary Education Specialist Credential Program, all candidates must participate in the mandatory New Student Orientation. At this session, candidates will receive a program handbook and will be advised on completing an approved Coursework Plan.

Admission to Supervised Student Teaching

One semester in advance of the time candidates intend to enroll in supervised student teaching (ESPE 6619), they must submit an application for supervision. This application is due by Friday of the third week of the semester prior to enrolling in supervised student teaching (no applications are accepted in the summer).

Admission to supervised student teaching is based on the following criteria and conditions:

1. Completion of an application form (http://www.surveygizmo.com/s3/1678079/SPED-Student-Teaching-Fieldwork-Application-Placement-Request/) submitted online;
2. Verification of an approved Coursework Plan including documentation of approved course substitutions;
3. Verification of complete PAF with official written verification that the applicant has passed the California Basic Educational Skills Test (CBEST);
4. Satisfactory completion of program prerequisites and credential coursework (ESPE 5532, ESPE 6631, ESPE 6632, ESPE 6633, ESPE 6634, ESPE 6637, and ESPE 6638) with a grade point average of 3.0 ("B") and no course grade lower than "B-;"
5. Verification of a negative tuberculin examination within the last four years.

All coursework taken at another college and substituted for credential program requirements is subject to approval by the coordinator of the Special Education Program. All course work taken at another institution, or more than seven years ago, is subject to approval by the coordinator of the Special Education Program. No more than 15 semester units of the credential program may be transferred. Student teaching is never transferable.

Student teaching for the credential is a full-time assignment for one semester of ESPE 6619 (concurrent with no more than two required credential courses). No concurrent course work should be taken beyond the required Preliminary Education Specialist credential courses in Early Childhood Special Education without permission of the program coordinator. Students who fail to complete any required credential program coursework will be dismissed from the program.

Recommendation for the Credential

In addition to the program admission requirements and successful completion of required credential coursework and student teaching, the candidate must successfully complete the following requirements in order to be recommended for the Preliminary Education Specialist Credential in Early Childhood Special Education:

1. Completion of the upper-division writing requirement
2. Completion of the U.S. Constitution requirement by one of the following:
   a. Approved U.S. Constitution course successfully completed at CSUSB;
   b. Successful completion of an examination administered through the College of Extended Learning;
   c. Approved U.S. Constitution course substitution from another university
3. Verification of basic skills requirement;
4. A grade point average of 3.0 ("B") in professional education course work, with no course grade lower than "B-;" no candidate may be recommended for the credential who has received a grade lower than "B-" in professional education course work including prerequisites; in the case of a repeated class, only the highest grade the student has received will be considered for the purpose of this requirement.

Credential Requirements (32 units)

Completion of the following courses with a grade point average of 3.0 or better with no grade lower than a "B-:"

ESPE 5532	Language Development in Diverse Learners	3
ESPE 6631	Assessment for Planning and Instruction	3
ESPE 6633	Methods to Support Inclusive Learning	3
ESPE 6634	Practicum: Methods to Support Inclusive Learning	1
ESPE 6632	Supportive Learning Environments	3
ESPE 6637	Seminar on Language and Literacy in Early Childhood Special Education	3
ESPE 6638	Practicum: Seminar on Language and Literacy in Early Childhood Education	1

ESPE 6639	Collaboration and Consultation in Special Education	3
ESPE 6672	Birth to Age Three Methods in Early Childhood Special Education	3
ESPE 6673	Preschool through Kindergarten Methods in Early Childhood Special Education	3
ESPE 6619	Supervised Student Teaching in Special Education: Early Childhood Special Education	6
Total Units		**32**

Preliminary Education Specialist Credential: Mild to Moderate Support Needs

Basic Teaching Credentials

The CSU prepares teachers for positions in California as well as other states. It is in the student's best interest to be knowledgeable about credential or licensure requirements of the state in which they intend to teach.

The Preliminary Education Specialist credential with an authorization in Mild to Moderate Support Needs (MMSN) is intended to better prepare teachers to serve students across a range of disabilities. The program at CSUSB is accredited by the California Commission on Teacher Credentialing (CTC) and requires early fieldwork and supervised clinical practice for a total of 600 hours in school settings within San Bernardino and Riverside counties. Field work experiences totaling 200 hours are embedded in the credential coursework and practicum. Supervised clinical practice totaling 400 hours is completed in schools within partnering districts in San Bernardino and Riverside counties supervised jointly by a district employed cooperating teacher and university employed supervisor. Supervision by the university is an in-person learning experience. The program also meets state standards authorizing instruction to English learners to develop English language skills including reading.

Mild to Moderate Support Needs includes providing specially designed instruction to access grade level California Content Standards in the Least Restrictive Environment. The education specialist provides instruction and supports in one or more of the following domains: academics, communication, gross/fine motor, social-emotional, behavioral, vocational, and learning environment access skills. The supports may also include health, movement and sensory support. Mild to Moderate Support Needs practices may include lower student to educator ratio.

The Education Specialist Instruction Credential: Mild to Moderate Support Needs authorizes the holder to conduct Educational Assessments related to students' access to the academic curriculum and progress towards meeting instructional goals, provide instruction, and Special Education Support to students with mild to moderate support needs related to one or more of the following disabilities: autism, emotional disturbance, intellectual disability, multiple disabilities, orthopedic impairment, other health impairment, specific learning disability, and traumatic brain injury; in kindergarten, including transitional kindergarten, grades 1-12 through age 22, and classes organized primarily for adults in services across the continuum of program options available.

Admission to the Program

Applicants must apply to the program at Cal State Apply (https://www.calstate.edu/apply (https://www.calstate.edu/apply/)) to be considered for admission to the Preliminary Education Specialist Credential Program in Mild to Moderate Support Needs. Applicants must meet BOTH the general requirements of the university for post baccalaureate admission and the program requirements in order to be admitted to the university and classified as a credential candidate. In preparation for admission to the basic credential program, applicants must review the Special Education Credential Program Admission Booklet which can be downloaded from the Special Education Program web pages on the CSUSB website at: CSU Special Education Programs website (http://www.csusb.edu/coe/programs/special_ed/) and attend a mandatory Information Session scheduled through Teacher Education in the College of Education Student Services at either the San Bernardino or Palm Desert campus. At this session, applicants will receive instructions for completing their application to CalState Apply. Applicants must submit to the Admissions staff in the College of Education Student Services according to the deadlines published for the semester of admission. Admission to the program is based on the following requirements included in the Cal State Apply application:

1. Completion of an application form;
2. Original verification of meeting the basic skills requirement by one of the following methods:
   a. Pass the California Basic Educational Skills Test (CBEST);
   b. Pass the California Subject Examinations for Teachers (CSET) Multiple Subjects Plus Writing Skills examination;
   c. Pass the CSU Early Assessment Program or the CSU Placement Examination;
   d. Achieve qualifying score on the SAT or ACT;
   e. College Board Advanced Placement (AP) Examinations;
   f. Pass basic skills examination from another state;
   g. Meet the basic skills requirement by coursework;
   h. Meet the basic skills requirement by coursework and exam.
3. Original verification of subject matter knowledge by one of the following:
   a. passage of CSET examination(s) as appropriate for the multiple subject credential, or for the single subject credential in the areas of art, English, foreign language, mathematics including foundational-level mathematics, music, social science, or science including foundational-level general science and specialized science; or
   b. by completion of a subject matter program as appropriate for the multiple subject credential, or for the single subject credential in the areas of art, English, foreign language, mathematics including foundational-level mathematics, music, social science, or science including foundational-level general science and specialized science;
   c. verification of holding a valid California clear, professional clear, preliminary, Level I, or life teaching credential requiring a baccalaureate or higher degree, verification of subject-matter competence, and a program of professional preparation, including student teaching.
4. All applicants are required to enter two names and emails addresses of persons who can address scholastic performance and suitability for teaching (recommendations are required to be submitted by the program deadline date, letters of recommendation will not be accepted);

5. A written personal narrative to be reviewed and approved by the Special Education Program Coordinator;
6. Verification of a negative tuberculin examination within the last four years;
7. Academic achievement, verified through official transcripts from ALL institutions of higher education attended. Applicants must possess a minimum undergraduate grade point average of at least 2.67 in all baccalaureate and postbaccalaureate course work or at least 2.75 in the last 60 semester or 90 quarter units attempted;
8. Documentation of 45 hours of experience in K-12 classrooms;
9. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
10. Verification of attendance at a Special Education Information Session;
11. Satisfactory completion of prerequisite courses with a grade of "B" or better **(6 units)**:

1.	ESPE 5530	Introduction to Special Education	3
	ESPE 5531	Methods and Procedures in Special Education	3

Upon admission to the university and the Preliminary Education Specialist Credential Program, all candidates must participate in the mandatory New Student Orientation. At this session, candidates will receive a program handbook and will be advised on completing an approved Coursework Plan.

Admission to Supervised Student Teaching

One semester in advance of the time candidates intend to enroll in supervised student teaching (ESPE 6620), candidates are required to submit an application for supervision. This application is due by Friday of the third week of the semester prior to enrolling in supervised student teaching (no applications are accepted in the summer).

Admission to supervised student teaching is based on the following criteria and conditions:

1. Completion of an application form (http://www.surveygizmo.com/s3/1678079/SPED-Student-Teaching-Fieldwork-Application-Placement-Request/) submitted online;
2. Verification of an approved Coursework Plan including documentation of approved course substitutions;
3. Verification of complete PAF with official written verification that the applicant has passed the California Basic Educational Skills Test (CBEST) and subject matter competency;
4. Satisfactory completion of program prerequisites and credential coursework (ESPE 6609, ESPE 6610, ESPE 6611, ESPE 6612, ESPE 6613, ESPE 6614, and ESPE 5514) with a grade point average of 3.0 ("B") and no course grade lower than "B-;"
5. Verification of a negative tuberculin examination within the last four years.

All coursework taken at another college and substituted for credential program requirements is subject to approval by the coordinator of the Special Education Program. All course work taken at another institution, or more than seven years ago, is subject to approval by the coordinator of the Special Education Program. No more than 15 semester units of the credential program may be transferred. Student teaching is never transferable.

Student teaching for the credential is a full-time assignment for one semester of ESPE 6620 (concurrent with no more than two required credential courses). No concurrent course work should be taken beyond the required Preliminary Education Specialist credential courses in mild/moderate disabilities without permission of the program coordinator. Students who fail to complete any required credential program coursework will be denied continuation in the program.

Recommendation for the Credential

In addition to the program admission requirements and successful completion of required credential coursework and student teaching, the candidate must successfully complete the following requirements in order to be recommended for the Preliminary Education Specialist Credential in Mild/Moderate Disabilities:

1. Completion of the upper-division writing requirement
2. Completion of the U.S. Constitution requirement by one of the following:
   Approved U.S. Constitution course successfully completed at CSUSB
   Successful completion of an examination administered through the College of Extended Learning;
   Approved U.S. Constitution course substitution from another university;
3. Verification that basic skills requirement and subject matter knowledge requirements have been fully met;
4. Verification of a passing score on the RICA (Reading Instruction Competence Assessment);
   Note: Holders of a valid California teaching credential based on a baccalaureate degree and completion of a teacher education program including student teaching, will be exempt from RICA. Call the Credentials Office, (909) 537-5609, for further information.
5. A grade point average of 3.0 ("B") in professional education course work, with no course grade lower than "B-;" no candidate may be recommended for the credential who has received a grade lower than "B-" in professional education course work including prerequisites; in the case of a repeated class, only the highest grade the student has received will be considered for the purpose of this requirement.

Credential Requirements (32 units)

Completion of the following courses with a grade point average of 3.0 or better with no grade lower than a "B-:"

ESPE 5532	Language Development in Diverse Learners	3
ESPE 6631	Assessment for Planning and Instruction	3
ESPE 6633	Methods to Support Inclusive Learning	3
ESPE 6634	Practicum: Methods to Support Inclusive Learning	1
ESPE 6632	Supportive Learning Environments	3
ESPE 6635	Seminar in Literacy Learning for K-12 Students with Special Needs	3
ESPE 6636	Practicum: Seminar in Literacy Learning for K-12 Students with Special Needs	1

ESPE 6639	Collaboration and Consultation in Special Education	3
ESPE 6642	Methods for Students with Mild to Moderate Support Needs I	3
ESPE 6643	Methods for Students with Mild to Moderate Support Needs II	3
ESPE 6620	Supervised Student Teaching in Special Education: Mild to Moderate Support Needs	6
Total Units		**32**

Preliminary Education Specialist Credential: Extensive Support Needs

Basic Teaching Credentials

The CSU prepares teachers for positions in California as well as other states. It is in the student's best interest to be knowledgeable about credential or licensure requirements of the state in which they intend to teach.

The Preliminary Education Specialist credential with an authorization in Extensive Support Needs (ESN) is intended to better prepare teachers to serve students across a range of disabilities. The program at CSUSB is accredited by the California Commission on Teacher Credentialing (CTC) and requires early fieldwork and supervised clinical practice for a total of 600 hours in school settings within San Bernardino and Riverside counties. Field work experiences totaling 200 hours are embedded in the credential coursework and practicum. Supervised clinical practice totaling 400 hours is completed in schools within partnering districts in San Bernardino and Riverside counties supervised jointly by a district employed cooperating teacher and university employed supervisor. Supervision by the university is an in-person learning experience. The program also meets state standards authorizing instruction to English learners to develop English language skills including reading.

Extensive Support Needs include providing specially designed instruction to access grade level California Content Standards in the Least Restrictive Environment. The education specialist provides intensive instruction and supports in two or more of the following domains: academics, communication, gross/fine motor, social-emotional, behavioral, vocational and adaptive/daily living skills. The supports also often include health, movement and sensory support. Extensive Support Needs practices include lower student to educator ratio.

The Education Specialist Instruction Credential: Extensive Support Needs authorizes the holder to conduct educational assessments related to students' access to the academic curriculum and progress towards meeting instructional goals, provide instruction, and special education support to students with extensive support needs related to one or more of the following disabilities: autism, deafblind, emotional disturbance, intellectual disability, multiple disabilities, orthopedic impairment, other health impairment, specific learning disability, and traumatic brain injury; in kindergarten, including transitional kindergarten, grades 1-12 through age 22, and classes organized primarily for adults in services across the continuum of program options available.

Admission to the Program

Applicants must apply to the program at Cal State Apply (https://www.calstate.edu/apply (https://www.calstate.edu/apply/)) to be considered for admission to the Preliminary Education Specialist Credential Program in Extensive Support Needs. Applicants must meet BOTH the general requirements of the university for post baccalaureate admission and the program requirements in order to be admitted to the university and classified as a credential candidate. In preparation for admission to the basic credential program, applicants must review the Special Education Credential Program Admission Booklet which can be downloaded from the Special Education Program web pages on the CSUSB website at: CSU Special Education Programs website (http://www.csusb.edu/coe/programs/special_ed/) and attend a mandatory Information Session scheduled through Teacher Education in the College of Education Student Services at either the San Bernardino or Palm Desert campus. At this session, applicants will receive instructions for completing their application to CalState Apply. Applicants must submit to the Admissions staff in the College of Education Student Services according to the deadlines published for the semester of admission. Admission to the program is based on the following requirements included in the Cal State Apply application:

1. Completion of an application form;
2. Original verification of meeting the basic skills requirement by one of the following methods:
   a. Pass the California Basic Educational Skills Test (CBEST);
   b. Pass the California Subject Examinations for Teachers (CSET) Multiple Subjects Plus Writing Skills examination;
   c. Pass the CSU Early Assessment Program or the CSU Placement Examination;
   d. Achieve qualifying score on the SAT or ACT;
   e. College Board Advanced Placement (AP) Examinations;
   f. Pass basic skills examination from another state;
   g. Meet the basic skills requirement by coursework;
   h. Meet the basic skills requirement by coursework and exam.
3. Original verification of subject matter knowledge by one of the following:
   a. passage of CSET examination(s) as appropriate for the multiple subject credential, or for the single subject credential in the areas of art, English, foreign language, mathematics including foundational-level mathematics, music, social science, or science including foundational-level general science and specialized science; or
   b. by completion of a subject matter program as appropriate for the multiple subject credential, or for the single subject credential in the areas of art, English, foreign language, mathematics including foundational-level mathematics, music, social science, or science including foundational-level general science and specialized science;
   c. verification of holding a valid California clear, professional clear, preliminary, Level I, or life teaching credential requiring a baccalaureate or higher degree, verification of subject-matter competence, and a program of professional preparation, including student teaching.
4. All applicants are required to enter two names and emails addresses of persons who can address scholastic performance and suitability for teaching (recommendations are required to be submitted by the program deadline date, letters of recommendation will not be accepted);

5. A written personal narrative to be reviewed and approved by the Special Education Program Coordinator;
6. Verification of a negative tuberculin examination within the last four years;
7. Academic achievement, verified through official transcripts from ALL institutions of higher education attended. Applicants must possess a minimum undergraduate grade point average of at least 2.67 in all baccalaureate and postbaccalaureate course work or at least 2.75 in the last 60 semester or 90 quarter units attempted;
8. Documentation of 45 hours of experience in K-12 classrooms;
9. Submission of an application for a certificate of clearance or evidence of a credential or permit authorizing public school teaching in California;
10. Verification of attendance at a Special Education Information Session;
11. Satisfactory completion of prerequisite courses with a grade of "B" or better **(6 units)**:

ESPE 5530	Introduction to Special Education	3
ESPE 5531	Methods and Procedures in Special Education	3
Total Units		**6**

Upon admission to the university and the Preliminary Education Specialist Credential Program, all candidates must complete the mandatory New Student Orientation. At this session, candidates will receive a program handbook and will be advised on completing an approved Coursework Plan.

Admission to Supervised Student Teaching

One semester in advance of the time candidates intend to enroll in supervised student teaching (ESPE 6621), the candidate must submit an application for supervision (http://www.surveygizmo.com/s3/1678079/SPED-Student-Teaching-Fieldwork-Application-Placement-Request/). This application is due by Friday of the third week of the semester prior to enrolling in supervised student teaching (no applications are accepted in the summer).

Admission to supervised student teaching is based on the following criteria and conditions:

1. Completion of an application form (http://www.surveygizmo.com/s3/1678079/SPED-Student-Teaching-Fieldwork-Application-Placement-Request/) submitted online;
2. Verification of an approved Coursework Plan including documentation of approved course substitutions;
3. Verification of completed official written verification that the applicant has passed the California Basic Educational Skills Test (CBEST) and subject matter competency;
4. Satisfactory completion of program prerequisites and credential coursework (ESPE 5532 , ESPE 6631 , ESPE 6632 , ESPE 6633 , ESPE 6634 , ESPE 6635 , and ESPE 6636 with a grade point average of 3.0 ("B") and no course grade lower than "B-;"
5. Verification of a negative tuberculin examination within the last four years.
6. Verification of up to date certificate of clearance.
7. Grade point average of 3.0.

All coursework taken at another college and substituted for credential program requirements is subject to approval by the coordinator of the Special Education Program. All course work taken at another institution, or more than seven years ago, is subject to approval by the coordinator of the Special Education Program. No more than 15 semester units of the credential program may be transferred. Student teaching is never transferable.

Student teaching for the credential is a full-time assignment for one semester of ESPE 6621 (concurrent with no more than two required credential courses). No concurrent course work should be taken beyond the required Preliminary Education Specialist credential courses in Extensive Support Needs without permission of the program coordinator. Students who fail to complete any required credential program coursework or will be denied continuation in the program.

Recommendation for the Credential

In addition to the program admission requirements and successful completion of required credential coursework and student teaching, the candidate must successfully complete the following requirements in order to be recommended for the Preliminary Education Specialist Credential in Extensive Needs:

1. Completion of the upper-division writing requirement;
2. Completion of the U.S. Constitution requirement by one of the following:
   Approved U.S. Constitution course successfully completed at CSUSB
   Successful completion of an examination administered through the College of Extended Learning;
   Approved U.S. Constitution course substitution from another university;
3. Verification of basic skills and subject matter requirements;
4. Verification of a passing score on the RICA (Reading Instruction Competence Assessment);
   Note: Holders of a valid California teaching credential based on a baccalaureate degree and completion of a teacher education program including student teaching, will be exempt from RICA. Call the Credentials Office, (909) 537-5609, for further information.
5. A grade point average of 3.0 ("B") in professional education course work, with no course grade lower than "B-;" no candidate may be recommended for the credential who has received a grade lower than "B-" in professional education course work including prerequisites; in the case of a repeated class, only the highest grade the student has received will be considered for the purpose of this requirement.

Credential Requirements (32 units)

Completion of the following courses with a grade point average of 3.0 or better with no grade lower than a "B-":

ESPE 5532	Language Development in Diverse Learners	3
ESPE 6631	Assessment for Planning and Instruction	3
ESPE 6632	Supportive Learning Environments	3
ESPE 6633	Methods to Support Inclusive Learning	3
ESPE 6634	Practicum: Methods to Support Inclusive Learning	1
ESPE 6635	Seminar in Literacy Learning for K-12 Students with Special Needs	3

ESPE 6636	Practicum: Seminar in Literacy Learning for K-12 Students with Special Needs	1
ESPE 6639	Collaboration and Consultation in Special Education	3
ESPE 6662	Methods for Students with Extensive Support Needs I	3
ESPE 6663	Methods for Students with Extensive Support Needs II	3
ESPE 6621	Supervised Student Teaching in Special Education: Extensive Support Needs	6
Total Units		**32**

Pupil Personnel Services Credential: School Psychology

The School Psychology program at California State University, San Bernardino provides professional preparation for the Pupil Personnel Services Credential with Specialization in School Psychology. This program is designed to meet the requirements for the Pupil Personnel Services Credential in School Psychology (PPS) established by the California Commission on Teacher Credentialing (CCTC).

The School Psychologist Credential program is 63 semester units of training. Equivalent coursework will be evaluated to determine appropriate substitutions for program coursework requirements. Included in this sequence are 1200 hours of supervised fieldwork/internship in a school setting (K-12). Students must have evidence of completing 450 clock hours of practica prior to beginning 1200 hours of supervised fieldwork/ internship.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to the PPS in School Psychology are:

1. Admission and acceptance to CSU, San Bernardino;
2. Current sealed transcript which verifies an M.A., M.S. or Ph.D. in Counseling or a related field;
3. Application and personal statement;
4. Two reference forms and letters of recommendation from persons having knowledge of the applicant's potential as a school psychologist, sent independently to the program coordinator;
5. Proof of passing the California Basic Educational Skills Test (CBEST);
6. Evidence of possession of a valid California teaching credential, PPS in School Counseling, or a Certificate of Clearance for eligibility to participate in fieldwork;
7. Evidence of current negative TB test.

Credential Requirements (63 units)

EDSP 6607	Research in School Psychology	3
EDSP 6619	Tests and Measurements in School Psychology	3
EDSP 6620	Introduction to School Psychology Practicum	3
EDSP 6633	Advanced Child Development	3
EDSP 6656	Counseling Theories	3
EDSP 6658	Consultation in School Systems for School Psychologists	3
EDSP 6678	Counseling in the School and Community	3
EDSP 6681	Counseling Practicum	3
EDSP 6685	School Psychology Practicum I	3
EDSP 6686	School Psychology Practicum II	3
EDSP 6687	School Psychologists as Change Agents: Theory and Practice	3
EDSP 6632	Psychological Foundations of Education and Learning Theory	3
EDSP 6647	Individual Testing and Case Study Techniques	3
EDSP 6648	Ecological Assessment and Case Study Techniques	3
EDSP 6660	Child Psychopathology	3
EDSP 6688	Behavioral Assessment and Intervention	3
EDSP 6691	Applied Research in Educational Settings	3
EDSP 6756	Internship in School Psychology (repeat twice for a total of 12 units)	12
Total Units		**63**

Recommendation for the Credential

In order to be recommended for a credential, a student must have:

1. Completed all prescribed coursework with a GPA of "B" (3.0) or better;
2. Completed all requirements for the 1200-hour internship including the specific competencies in the program as mandated by the California Commission for Teacher Credentialing.

Minor in Counseling and Social Change

The minor will offer an interdisciplinary collaboration between the college of educations MS in counseling and complimentary programs across disciplines. The proposed minor will be 18 semester units, 12 housed in the counseling program and 2 electives house elsewhere (1 GE and 1 additional class will fulfill this requirement).

Complimentary disciplines could include but are not limited to: BA in English, Sociology, History, Human Development (Child development track), Human Development (Lifespan track), Anthropology, Criminal justice, Health science, Admin (Public administration), Philosophy, Political Science, Admin (Human Resource Mgmt.), Admin (Hospitality Mgmt.), Communication, Art (Visual Studies), Liberal Studies (General Track), Spanish, & Kinesiology.

Requirements for a minor in Counseling and Social Change (18 units)

COUN 3101	Introduction to the Counseling & Helping Professions	3
COUN 3102	The Social Construction Of Relationships	3
COUN 3103	Introduction To Counseling Skills & Practices	3
COUN 3104	Counseling & Social Change	3

An additional 6 units chosen in consultation with an advisor.	6
Total Units	**18**

Minor in Special Education

The Minor in Special Education is for students interested in learning about individuals with disabilities. Required courses include those that focus on the causes and characteristics of disabilities, assessment and instructional strategies, and language development and communication. Courses taken for the Minor in Special Education can be applied to the Special Education teaching credentials in the College of Education.

Minor Requirements (9 units)

ESPE 5530	Introduction to Special Education	3
ESPE 5531	Methods and Procedures in Special Education	3
ESPE 5532	Language Development in Diverse Learners	3
Total Units		**9**

Certificate in Rehabilitation Counseling

The Rehabilitation Counseling Certificate is reserved for individuals who possess a Master's degree in a related field (i.e., social work, psychology, etc.) and are interested in obtaining knowledge and training in Rehabilitation Counseling.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (29 units)

EREH 6615	Introduction to Rehabilitation Counseling (must be completed with a grade of "B" (3.0) or better to continue work in the certificate program)	5
EREH 6616	Medical Aspects of Disability Across the Life Span	5
EREH 6618	Addictions & Co-Existing Disabilities	5
EREH 6620	Multicultural Rehabilitation Counseling	4
EREH 6621	Psychiatric Rehabilitation Diagnosis & Psychopharmacology	5
EREH 6617	Counseling Theories and Psychosocial Aspects in Rehabilitation	5
Total Units		**29**

Department of Teacher Education and Foundations

College of Education Building, Room 261
(909) 537-7405 Department of Teacher Education and Foundations website (https://www.csusb.edu/teacher-education/)

Current Faculty

Lasisi Ajayi, Professor of Education, Chair
B.A. 1983, M.S. 1989, Obafemi Awolowo University, Ife
Ph.D. 1996, Literacy-University of Ibadan

Mark Groen, Professor of Education
B.A. 1981, California State University, Northridge
M.A. 1992, University of Southern California
Ph.D. 2002, University of California, Riverside

Young Suk Hwang, Professor of Education
B.A. 1989, Chongshin University, Korea
M.Ed. 1993, Ph.D. 1998, Auburn University, Alabama

Enrique Murillo, Professor of Education
B.A. 1988, Univeristy of California, Los Angeles
M.A. 1995, California State University, Los Angeles
Ph.D. 1999, University of North Carolina Chapel Hill

Nena M. Torrez, Professor of Education
B.A. 1972, University of California, Berkeley
J.D. 1975, California Western School of Law
M.A. 1980, California State University, Dominguez Hills
Ph.D. 1988, Claremont College

Xinying Yin, Professor of Education
B.S. 2004, Beijing Normal University
Ph.D. 2013, Indiana University - Bloomington

Emeriti

Richard Ashcroft

Maria V. Balderrama

Diane K. Brantley

Susan Daniels

Barbara M. Flores

Thom G. Gehring

Juan M. Gutierrez

Todd E. Jennings

Joseph Jesunathadas

Kurt Kowalski

Robert H. London

Gary A. Negin

Michael Verdi

Graduate Degrees

Master of Arts

- Education (p. 454)
- STEM Education (p. 455)
- Teaching English to Speakers of Other Languages (TESOL) (p. 457)
- Teaching English to Speakers of Other Languages (TESOL) (Accelerated) (p. 471)

Minor

Gender and Sexuality Studies (p. 465)

- **Coordinator**: Todd Jennings

Certificates

- Gender and Sexuality Studies (p. 467)
- Teaching Ethnic Studies (p. 467)

Basic Teaching Credential Programs

- Adapted Physical Education Added Authorization (p. 458)
- Multiple Subject (p. 459)
- Single Subject - Student Teaching Track (p. 463)
- Single Subject - Intern Track (p. 462)

Master of Arts in Education

The Master of Arts in Education degree program engages students in an advanced study of teaching, learning, assessment, and curriculum development. Principles of social justice serve as a back drop for examining each of the above four domains of knowledge within the context of being productive educators serving a diverse population of students. The program is designed for K-12 educators and credential students to earn a master's degree that is relevant to producing effective classroom teachers and teacher leaders.

Admission to the Program

In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. completion of a four-year college course of study and hold an acceptable baccalaureate with a grade point average of at least 2.5
2. good academic standing at the last college or university attended;
3. currently enrolled in a teaching credential program or hold a valid California Teaching Credential.
4. submission of two letters of recommendation from established educators who can judge your competence to succeed in a rigorous graduate program;
5. submission of a statement of purpose of no more than 150 words including the applicant's personal goals for the graduate education program.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Change to classified standing can be made only with approval of the College of Education. No more than 15 semester units may be used to demonstrate fitness to complete the program.

Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Met Writing Requirement for Graduate Candidacy
3. Completed, with a grade point average of 3.0 ("B"), at least 12 semester units of applicable coursework in graduate standing, at least 9 of which must have been on this campus and approved by an advisor in the College of Education;
   Note: Between the time of completing 9 units and 12 units of applicable course work, the student is required to apply for advancement to candidacy
4. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with a program advisor from the Department of Teacher Education and Foundations.

Requirements for Graduation

1. A minimum of 30 semester units of acceptable graduate level work, with at least 24 completed in residence at this university;
2. The Graduate Writing Assessment Requirement is met through successful completion of the Undergraduate Upper Division writing course from any accredited university;
3. An overall grade point average of 3.0 ("B") for the program, and grades of "C" (2.0) or better in each course taken to satisfy the MAT degree requirements;
4. Successful completion of Core courses, and successful completion of requirements in Track A (Thesis/Project option) or Track B (Comprehensive examination option).
5. The program plan may not include more than 9 semester units in approved extension and transfer courses from other colleges. CSUSB will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.
6. Students who take the Comprehensive Examination i.e., EMAT 6980 will also take EMAT 6979. Students may take the examination only twice;
7. Any additional general requirements not cited above and listed in Graduate Degree and Program Requirements (p. 74).

Degree Requirements (30 units)

Core courses (12)		
EMAT 6006	Secondary Education Special Topics (Capstone)	3
EMAT 6013	Educational Research: Inquiry into Classrooms	3
EMAT 6015	Leadership in Education	3
EMAT 6605	Advanced Topics in Education	3
Choose one of the following (3)		**3**
EMAT 6011	Advanced Study in Literacy across the Curriculum	
EMAT 6012	Advanced Teaching Methods	
EMAT 6016	Social Justice in Education	
EMAT 6017	Advanced Educational Psychology	
Concentration (12)		
Students must satisfy the requirements of one of the concentrations listed below.		12
Culiminating Experience (3)		

Students must satisfy the requirements of one of the culminating experiences listed below.		3
Total Units		**30**

Culminating Experience (3 units)

EMAT 6979	Comprehensive Preparation in Teacher Education	3
EMAT 6980	Comprehensive Examination	0
Total Units		**3**

Concentrations (12 units)

Elementary Concentration

(Program Code: EDEL)

Choose 12 units from the following		12
EMAT 5100	Technology and Instructional Practices for Educators	
EMAT 5101	Education, Diversity and Social Justice	
EDMS 5104	Mathematics Teaching and Learning	
EDMS 5105	Science Teaching and Learning	
EDMS 5106A	Social Studies and the Arts Teaching and Learning	
EDMS 5106B	Social Studies and the Arts Teaching and Learning in Bilingual Settings	
Total Units		**12**

Secondary Concentration

(Program Code: EDSE)

Choose 9 units from the following		9
ESEC 5001	Classroom Management & Pedagogy	
ESEC 5002	Educational Equity and Advocacy	
ESEC 5003	Pedagogical Foundations for English Language Learners in Secondary Classrooms	
ESEC 6003	Pedagogical Foundations for English Language Learners in Secondary Classrooms	
ESEC 6004	Adolescent Development and Educational Theory	
ESEC 6005	Literacy Across the Content Areas	
Choose one of the following:		3
ESEC 6010	Methods of Teaching in the Content Areas: Art	
ESEC 6011	Methods of Teaching in the Content Areas: English	
ESEC 6012	Methods of Teaching in the Content Areas: World Language	
ESEC 6013	Methods of Teaching in the Content Areas: Mathematics	
ESEC 6014	Methods of Teaching in the Content Areas: Music	
ESEC 6015	Methods of Teaching in the Content Areas: Physical Education	
ESEC 6016	Methods of Teaching in the Content Areas: Science	
ESEC 6017	Methods of Teaching in the Content Areas: Social Science	
Total Units		**12**

Master of Arts in STEM Education

(Program Code: STEM)

The MA in STEM Education program is a Master's degree program for students who wish to advance their professional knowledge and skills in STEM Education. The program is to prepare STEM educators and leaders to more effectively teach, engage, and inspire a diverse population of students in the STEM fields. Through an advanced course of study, this program provides candidates with specialized experiences that will enhance their knowledge, skills and dispositions that prepare them to become expert STEM educators and leaders who will advance STEM education, either in discipline-specific or integrated settings, in K-12 schools and other informal contexts. With an emphasis on interdisciplinary perspectives, the goal of the program is to prepare STEM educators and leaders who will be able to prepare all students to become active and informed citizens in an ever more technological and complex world; and to build the educational foundation for future STEM-related careers through engaging them in authentic inquiry, real world problem-solving, critical and creative thinking, productive collaboration and effective communication.

The program curriculum focuses on integrating mathematics, science, technology, and engineering concepts across disciplines through facilitating a broader understanding of the interdisciplinary nature of STEM, a deeper discipline-specific pedagogical content knowledge, equitable teaching strategies, and integrative approaches for the teaching and learning of STEM content. The program curriculum includes research in STEM Education, assessment, foundations in STEM Education, technology and engineering in STEM Education, advanced teaching methods in STEM Education and culminating experience. These courses are to enhance teachers' knowledge and practice in STEM education through student-centered, integrated teaching approaches, hands-on experiences, collaborations and reflections, with a focus on Common Core State Standards for Mathematics and the Next Generation Science Standards.

The audience of the program will be primarily single subject and multiple subject credential students to further their knowledge and practice in STEM Education. This program will also offer valuable knowledge and skills in teaching STEM to K-12 CTE (Career and Technical Education) teachers, special education teachers and informal STEM educators. Students in the MA program will be supported to add foundational level mathematics, foundational level science, mathematics, subject-specific science, and computer science teaching authorizations.

The College of Education previously had a MA in Education: STEM Education option program at CSUSB. It was a two-year program and mainly recruited practicing teachers. In the Quarter-to-Semester conversion process this program was not transferred into the semester system. Thus, we are proposing a new MA in STEM Education program to replace the former program. The proposed program is designed to serve similar purposes. In addition, the proposed program aims to expand the enrollment by integrating with the single and multiple subject credential programs at CSUSB and reducing the number of the semesters required to complete the program.

The MA in STEM Education program is designed to integrate with the single and multiple subject credential programs at CSUSB, thus forming a pipeline of producing high-quality K-12 STEM teachers. After completing the credential program, students could complete the MA in STEM Education program within one year while teaching full time. The MA in STEM Education program has five core courses (15 credit units), one culminating experience course (project/thesis, or advanced topics in STEM Education with comprehensive exam, 3 credit units), and 12 credit units of elective courses. The elective courses allow CSUSB credential students to bring up to 12 credit units from their teaching credential program and students from other institutions to transfer up to 9 credit units from their previous post-baccalaureate programs. If students have 12 credit units transferred from their credential programs, they can complete the program within two semesters (nine months). They will take 9 credit units per semester and this allows them to teach full time while doing the master's program. A student could earn a single- or multiple- subject teaching credential and a master's degree in STEM Education at CSUSB within two years.

University Admission

- Have completed a four-year college degree program at an accredited institution with a 3.0 or above GPA for the last 60 semester or 90 quarter units. Students with 2.5 to 3.0 GPA may be admitted conditionally.
- Complete the online application at Cal State Apply (http://www.calstate.edu/apply/)
- Submit an application fee of $70.00
- Submit one (1) copy of official transcripts from all colleges and universities you attended.

Program Admission

In addition to the University Graduate School admission requirements (https://www.csusb.edu/graduate-studies/prospective-students/how-apply/admissions-requirements/#:~:text=If%2012%20or%20more%20semester,then%20the%20GPA%20is%20acceptable&text=If%20an%20applicant%20has%20a,or%20above%2C%20they%20are%20admissible), additional requirements for admission to classified graduate status are:

1. Relevant K-12 teaching experiences including but not limited to: public or private school teaching, substituting teaching, and teaching in informal settings.
2. Two letters of recommendation, from individuals familiar with the applicant's work history or educational background.
3. Students need to attend an information meeting with the program coordinator and/or the admission advisor before submitting their application. An advising form will be submitted together with other application materials.

Students who do not meet these criteria may be admitted as conditionally classified graduate students. Change to classified standing can be made only with approval of the College of Education. No more than 15 semester units may be used to demonstrate fitness to complete the program.

Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified standing;
2. Met Writing Requirement for Graduate Candidacy;
3. Completed with a grade point average of 3.0 ("B"), at least 15 semester units of applicable coursework in graduate standing, at least 12 of which have been taken at this campus and approved by an advisor in the College of Education;
4. Between the time of completing 12 units and 15 units of applicable course work, the student is required to apply for advancement to candidacy;
5. Completed at least three courses from the program core courses (ESTM 6104, ESTM 6203, ESTM 6134, ESTM 6344, ESTM 5114);
6. Filed an official "Graduate Approved Program Plan." This must be approved by the student's advisor and the graduate coordinator of the program.

Requirements for Graduation

1. A minimum of 30 semester units of acceptable graduate-level work, with a minimum of 21 completed in residence at this university;
2. A grade point average of 3.0 (grade of B) or better in all courses taken to satisfy the requirements for the degree;
3. Graduate students are required to complete the Writing Requirement for Graduate Candidacy before being classified or advanced to candidacy. There are three options a student can choose from to meet the writing requirement.
   - The student completes ESTM 6103 or ESTM 6503 and attains a grade of B or better.
   - The student scores an acceptable standardized test score (WREE or GRE).
   - The student submits a paper(s) that will receive a passing score according to the approved rubric (http://coe.csusb.edu/sites/default/files/PaperEvaluationCriteria_WritingRequirement.pdf)
4. Successful completion of comprehensive examination, a thesis or project.
   - Comprehensive Examination
     A comprehensive examination is an assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking, and demonstrate mastery of the subject matter. The results of the examination evidences independent thinking, appropriate organization, critical analysis and accuracy of documentation. A record of the examination questions and responses shall be maintained in accordance with the records retention policy of The California State University.

     Students are required to take ESTM 6953 Advanced Topics in STEM Education concurrently with or prior to taking the Comprehensive Examination. Students may not take the examination more than three times.
   - Thesis
     A thesis is the written product of a systematic study of a significant problem. It identifies the problem, states the major assumptions, explains the significance of the undertaking, sets forth the sources for and methods of gathering information, analyzes the data, and offers a conclusion or recommendation. The finished product evidences originality, critical and independent thinking, appropriate organization and format, and thorough documentation. Normally, an oral defense of the thesis is required.

A thesis must be planned in consultation with the student's first and second readers. The thesis proposal must be approved by the student's both readers, at least one of whom must be from the College of Education. The thesis also must be approved by the first and second readers and submitted in the approved format. An oral defense of the thesis is required.

- MA Project
  A project is a significant undertaking appropriate to the fine and applied arts or to professional fields. It evidences originality and independent thinking, appropriate form and organization, and a rationale. It is described and summarized in a written abstract that includes the project's significance, objectives, methodology and a conclusion or recommendation. An oral defense of the project may be required.

  A project will be planned in consultation with the student's first and second readers. The project proposal must be approved by the student's both readers, at least one of whom must be from the College of Education. The project also must be approved by the first and second readers and submitted in the approved format. The project can be reported in the form of a paper and/or other media. Both media and non-media projects require a final written report. An oral defense of the project is required.

5. The graduation requirement should be completed within 7 years from the date of matriculation.

Any additional general requirements not cited above and listed in Graduate Degree and Program Requirements website.

The program may not include more than 9 semester units in approved extension and transfer courses from other colleges.

Degree Requirements (30-33 units)

Core Courses (15)		
ESTM 6104	Foundations of STEM Education	3
ESTM 5114	Technology and Engineering in STEM Education	3
ESTM 6203	Advanced Teaching Methods in STEM Education	3
ESTM 6134	Assessment in STEM Education	3
ESTM 6344	Research Methods in STEM Education	3
Electives (12)		**12**
Option 1. Elementary Education (12 units from the following courses)		
EMAT 5101	Education, Diversity and Social Justice	
EDMS 5104	Mathematics Teaching and Learning	
EDMS 5105	Science Teaching and Learning	
EDMS 4100	Psychological Foundations of Education	
EDMS 4102	Pedagogical Foundations for Teaching English Learners	
Option 2. Secondary Education (12 units from the following courses)		
ESEC 6002	Educational Equity and Advocacy	
ESEC 6003	Pedagogical Foundations for English Language Learners in Secondary Classrooms	
ESEC 6004	Adolescent Development and Educational Theory	
ESEC 6013	Methods of Teaching in the Content Areas: Mathematics	
ESEC 6016	Methods of Teaching in the Content Areas: Science	
Option 3. 5000- and 6000- level courses related to STEM Education with consent of program coordinator.(12 credit units) Example programs that students can take courses for electives are: Single or Multiple Subject Teaching Credential Program, MA in Education, MA in Instructional Technology, MA in Career and Technical Education, Master level or upper level courses in the College of Natural Sciences (science disciplines, mathematics and computer science).		

Culminating Experience

Students must complete one of the following options		
Option A: Comprehensive Examination Option		
ESTM 6954	Advanced topics in STEM Education	3
ESTM 6980	STEM Education: Comprehensive Examination	0
Option B: Master's Thesis/Project Option (choose one)		
ESTM 6973	STEM Education Master Thesis	3
ESTM 6963	STEM Education Master Project	3

Master of Arts in Teaching English to Speakers of Other Languages (TESOL)

The Master of Arts in TESOL prepares educators to meet the needs of English learners in classrooms both in the United States and abroad. We specialize in English teaching in K-12 and adult education contexts. The program offers the knowledge, skills and practices needed to effectively design instruction, teach and assess English learners, and advocate for multilingual/ multicultural students. The teaching of English around the world is one of the fastest-growing international professions and offers worldwide English teaching opportunities to qualified graduates. Courses in teaching methods and supervised fieldwork opportunities provide a broad overview of theories of language acquisition and social/cultural influences on language learning, and strengthen the mastery of classroom techniques.

Admission to the Program

- Completion of general admission requirements, as stipulated by CSUSB Division of Graduate Studies at https://www.csusb.edu/graduate-studies/prospective-students/how-apply/admissions-requirements
- Completion of B.A or B. S. degree from accredited a four-year college or university
- Minimum Grade Point Average (GPA) of 2.5
- One-page Statement of Purpose:

  1. Introduce yourself, your interests, and motivations for TESOL
  2. Describe your professional goals as they relate to the TESOL program

3. Explain why you are interested in the CSUSB TESOL program and what you can bring to the table

- Provide 2 letters of recommendation
- International students for whom English is not their first language, please check with the International Admissions Office in the College of Extended and Global Education at https://www.csusb.edu/cisp/admissions/master-graduate-student
- GRE not required

Advancement to Candidacy

In order to be advanced to candidacy, a student must have:

1. Achieved classified standing by completing EESL 5050 and EESL 5300 with the grade of B or better;
2. Between the time of completing 3 units and 18 semester units of applicable course work the student is required to apply for classification; after achieving classification, then candidacy;
3. Secured approval of candidacy from the College of Education;
4. Filed an approved graduate program for completion of the degree. This must be prepared in consultation with an advisor and approved by the program coordinator;
5. Students who completed their bachelor's degree in an English-dominant country must have two semesters or three quarters of study in one or more world languages (not English) at the post-secondary level;
6. Students who completed their bachelor's degree in a non-English-dominant-country must have two semesters or three quarters of study in one or more world languages (not English) at the post secondary level or take COMM 1006.

Requirements for Graduation

1. A minimum of 30 semester units of acceptable graduate-level work, with a minimum of 26 units completed in residence at this university;
2. A grade point average of 3.0 (“B”) in all course work taken to satisfy the Master of Arts degree requirements, and grades of “C” (2.0) or better in all courses in the program;
3. Successful completion of EESL 6980.
4. The graduation writing requirement is met upon successful completion of 3 above;
5. Completion of the Candidate Assessment Portfolio (CAP). Details of the CAP approval process are outlined in the program information materials. The CAP must be completed prior to enrollment in EESL 6980.

The program may not include more than 9 semester units in approved extension and transfer courses from other colleges. California State University, San Bernardino will not consider for transfer credit course work from an institution which will not accept that work in its own advanced degree program.

Note: Enrollment in any course in the program is subject to approval of the program coordinator.

Degree Requirements (30 units)

(Program Code: TESL)

EESL 5050	Graduate Writing for TESOL	3
EESL 5200	Language Studies for Educators	3
EESL 5300	Technology-Enhanced Language Learning	3
EESL 5500	Listening and Speaking Methods in TESOL	3
EESL 6300	Crosscultural Teaching	3
EESL 6400	Literacy in TESOL	3
EESL 6600	Structure, Function and Acquisition of English	3
EESL 6700	Principles and Practice in TESOL	3
EESL 6800	Research in TESOL	3
EESL 6900	Fieldwork: Teaching English to Speakers of Other Languages	3
Culminating Experience (0)		**0**
Total Units		**30**

Culminating Experience (0 units)

EESL 6980	Comprehensive Examination in TESOL	0
Total Units		**0**

The written comprehensive examination is designed to test the student’s knowledge of the field of Teaching English to Speakers of Other Languages. The examination is offered once each quarter and during the summer session. The student may enroll in the examination no earlier than the last quarter in which course work is taken. The student may take the examination (or any part of it) up to three times. Approval to retake the examination may be, at any time, contingent upon completion of additional designated courses.

Adapted Physical Education Added Authorization Credential

Basic Teaching Credentials

The CSU prepares teachers for positions in California as well as other states. It is in the student's best interest to be knowledgeable about credential or licensure requirements of the state in which they intend to teach.

For information on the added authorization, contact the Credential Office, CE-102, (909) 537-7401.

Admission to the Program

In addition to meeting the general requirements of the university for admission as a postbaccalaureate student, admission to the Added Authorization in Adapted Physical Education program requires the following:

1. A valid California teaching credential authorizing the teaching of physical education.
2. Students must have a cumulative GPA of a 2.67 or your last 90 units GPA of a 2.75 in order to be admitted to the APEAA Program.

Recommendation for the Added Authorization in Adapted Physical Education:

In addition to meeting the general requirements of the university for admission as a post baccalaureate student, admission to the Added Authorization in Adapted Physical Education requires one of the following:

1. Verification of subject matter competence by one of the following:

a. completion of an equivalent California-approved single subject matter preparation program in physical education verified in writing by authorized personnel;

b. original verification of a passing score on the CSET examination for Physical Education;

c. completion of an approved subject matter preparation program offered on this campus or an approved subject matter preparation program at another California campus, verified in writing by authorized personnel;

2. Documentation of a minimum of 100 hours of fieldwork experience in Adapted Physical Education in compliance with the Standards of the California Commission for Teacher Credentialing;

3. Completion of student teaching in adapted physical education and physical education at:

a. CSUSB or an equivalent California campus with an approved single subject matter adapted physical education preparation program verified in writing by authorized personnel, or

b. a California Public School verified in writing by authorized personnel with one year of demonstrated effective teaching in adapted physical education;

4. Completion of the final written exit examination and exit interview with the adapted physical education coordinator at CSUSB;

5. Consult the coordinator of adapted physical education for current information about this credential as pending state legislation may require curricular changes.

Requirements for Graduation

1. Completion of all coursework with a minimum grade point average of 3.0 ("B")
2. Completion of student teaching in adapted physical education and physical education at: a) CSUSB or an equivalent California campus with an approved single subject matter adapted physical education preparation program verified in writing by authorized personnel, or b) a California Public School verified in writing by authorized personnel with one year of demonstrated effective teaching in adapted physical education;
3. Completion of the final written exit examination and exit interview with the adapted physical education coordinator at CSUSB.

Credential Requirements (15 units)

KINE 3100	Introduction to Adapted Physical Activity	3
KINE 3300	Movement Skill Assessment for Individuals with Disabilities	3
KINE 3320	The Nature and Issues Concerning Individuals with Disabilities	3
KINE 3330	Applied Behavior Management	3
KINE 4900	Seminar in Physical Education and Adapted Physical Education	3
Total Units		**15**

Multiple Subject Credential

A teacher with a Multiple Subject Teaching Credential is authorized to teach students in grades pre-K through 12 in self-contained classrooms, or in classes organized primarily for adults. The credential holder may serve in a core or team-teaching setting. This credential includes the English Learner Authorization which permits the teacher to provide instruction for English language development.

The Multiple Subject Credential Program (MSCP) is a post-baccalaureate program focusing on preparing teachers for California. The 33-36 semester unit program includes early field experiences in elementary schools, combined with coursework, supervised student teaching and two cycles of assessments (i.e., CalTPA). Supervised student teaching requires full-time attendance at an elementary or middle school. Program requirements must be met within five years of the date of admission to the program.

The Multiple Subject Credential Program provides the sequence of courses, deadlines, and other program related information.

Students must choose a path for the Multiple Subject Credential program:

1. Multiple Subject Credential (i.e., credential with traditional student teaching)
2. Multiple Subject Intern Credential (i.e., credential with district-employed internship)
3. Multiple Subject Credential with Bilingual Added Authorization in Spanish (i.e., credential with traditional student teaching)
4. Multiple Subject Credential with Bilingual Added Authorization in Spanish Internship (i.e., credential with district-employed internship)
5. Multiple Subject Credential with Bilingual Added Authorization in Spanish Post-credential (i.e., preliminary or clear multiple subject credential holders adding the BiAu)

The above are available to post baccalaureate students and to undergraduate students in the Bachelor of Arts in Liberal Studies: Integrated Program.

The Intern Credential Program of 36 semester units is for those students who have been placed in an employment setting. Interns are issued a two-year intern credential from the Commission on Teacher Credentialing and are employed by a partnering school district. If a candidate does not secure a job, he/she may pursue the basic credential program as a student teacher. The intern program requires three semesters of supervised teaching. The internship may begin in any semester.

Bilingual Authorization allows the holder to provide instruction to English Learners (EL). The license permits the following types of instruction to ELs, (a) Instruction for English Language Development (ELD), (b) Instruction for Primary Language Development, (c) Specially Designed Academic Instruction Delivered in English (SDAIE), and (d) Content Instruction Delivered in the Primary Language.

For information about the credential program and advisement please contact the program coordinator or the College of Education Program Admissions Advisor.

Preliminary Credential

Successful completion of the Multiple Subject Credential Program leads to the Preliminary Credential, which is valid for five years. Applicants for the Preliminary Credential are required to:

1. hold a bachelor's degree from an accredited institution within the U.S. or equivalent;
2. complete the U. S. Constitution requirement;
3. complete the Basic Skills Requirement (e.g., CBEST);
4. hold a Certificate of Clearance (CTC fingerprint clearance);
5. demonstrate subject matter competence by passing the California Subject Examinations for Teachers: Multiple Subjects (CSET: Multiple Subjects) or completion of a CTC-approved subject matter preparation program;
6. complete all program courses with no grade lower than a "B˜";
7. successfully complete student teaching or supervised internship;
8. pass the Reading Instruction Competence Assessment (RICA) examination;
9. pass Cycle 1 and Cycle 2 of the California Teaching Performance Assessment (CalTPA);
10. for the Bilingual Added Authorization concentration candidates demonstrate competence in specialized pedagogy, culture, and the target language. Spanish language proficiency may be met through coursework or state-approved exams.

Early Completion Intern Option

Intern teachers may challenge the coursework portion of the Multiple Subject Credential Intern Program and demonstrate pedagogical skills by passing the CTC-approved performance assessment. For details, see the CTC Website on this topic.

Post-credential Option for Bilingual Authorization allows credentialed teachers to add bilingual authorization to their existing credentials. This program prepares educators to teach in bilingual settings, focusing on instruction in English and a target language (Spanish). Participants gain skills in bilingual pedagogy and culturally responsive teaching to support multilingual learners.

Clear Credential

The Preliminary Credential is valid for five years from the date of issuance and is not renewable. During the first five years of teaching, teachers earn the clear credential through their district-sponsored Induction Program.

Admission to the Program

Students apply to the university through Cal State Apply and concurrently submit a 'Supplemental Application' for admission to the program.

Applicant Submits the following to Cal State Apply Supplemental Application:

1. Verification of Subject matter proficiency may be demonstrated through one of the following five options:

- Completion of a subject matter program approved by the commission.
- Passage of a subject matter examination (the California Subject Examination for Teachers or CSET).
- Successful completion of coursework at one or more regionally accredited institutions of higher education that addresses each of the domains of the subject matter requirements adopted by the commission in the content area of the credential pursuant to Section 44282, as verified by a Commission-approved program of professional preparation.
- Successful completion of a baccalaureate or higher degree from a regionally accredited institution of higher education in a major in Liberal Studies, Liberal Arts, or Elementary Education.
- Through a combination of the methods described in numbers 1, 2, and 3 (above) in whole or in part, in each of the domains of the subject matter requirements for the multiple subject credential pursuant to Section 44282.

2. Verification of successful completion of the Basic Skills Requirement. Applicants can use **one** of the following options:

- Pass the CBEST
- Pass the CSET: Multiple Subjects Plus Writing Skills Examination
- Pass the CSU Early Assessment Program or the CSU Placement Examinations
- Achieve Qualifying Score on the SAT or ACT
- College Board Advanced Placement (AP) Examinations
- Pass a Basic Skills Examination from Another State
- Meet the Basic Skills Requirement by Coursework
- Meet the Basic Skills Requirement by Coursework and Exam

3. Two recommendations forms from two individuals (not a family member) who are able to evaluate and address the applicant's scholastic performance and suitability for teaching;

4. A written, personal narrative/essay (600-700 words) on (a) reasons for wanting to be an elementary school teacher and (b) background that prepares the applicant to be a teacher;

5. Verification of a valid negative TB test result via one of the following, (a) an official immunization record stamped by the healthcare provider, (b) an official letterhead signed by the healthcare provider (Risk Assessment Questionnaires are not acceptable), *Note: Negative TB test results are valid for four years from the date of the test and must remain valid for the duration of the program*;

6. Official transcript(s) from each institution attended with the exception of California State University San Bernardino (CSUSB) submitted directly to the Jim and Judy Watson College of Education Student Services Office (CE 102) by the program deadline date.

7. All applicants must have a cumulative grade point average of 2.67 or of 2.75 in their last 60 semester units of 90 quarter units);

8. Documentation of at least 45 hours of field experience in K-12 classrooms via any of the following: (a) early field experience verification form, (b) original letterhead signed by the authorized school personnel, (c) original field log signed by the authorized school personnel.

9. Verification from the Commission on Teacher Credentialing (CTC) of the issuance of a valid California Certificate of Clearance, credential or permit;

10. Completion of the upper-division writing requirement at the university or the equivalent graduation requirement at another accredited institution, or a passing score on the CSUSB Writing Requirement Exemption Evaluation (WREE), or a passing score on the written portion of the CBEST (Note: CBEST examination does not meet the graduate entrance writing requirement for the Master of Arts degree);

11. All applicants who have submitted a complete application will receive notification within 12 working days of submission via MyCoyote email to set-up a mandatory faculty interview. Admission to the program is based on (a) the successful completion of the faculty interview, and (b) attendance at the New Student Orientation meeting at which time applicants will also complete a Student Teaching Placement Application.

Admission to Supervised Student Teaching

Students must apply for supervised student teaching (EDMS 4107A) along with the Supplemental Application. Admission to supervised student teaching is based on the following criteria and conditions:

1. Successful completion of co-requisite courses:
2. Concurrent enrollment in the following courses: EDMS 4100, 4101A or 4101B, 4102, 4103, and 4104.

Admission to the Intern Program

In addition to the steps, conditions and criteria outlined above for the Multiple Subject Credential Program the applicant must fulfill the following:

1. Submit an application to the intern program,
2. Successfully complete prerequisite and co-requisite courses,
3. Successfully complete the following pre-service courses with a grade of B- or better (candidates can apply to the program while concurrently enrolled in these courses): EDMS 4100, 4101A or 4101B, 4102, and 4103;
4. Provide Verification of Employment by a school district that has a contractual agreement with the university. The intern is employed full time and is assigned to teach in a self-contained classroom while enrolled in courses at CSUSB. (A listing of these districts is in the Handbook for Multiple Subject Credential Programs.)
5. Apply for an intern credential once admitted to the intern track and the job is secured. Submit the application for the intern license to CE 102.

Admission to the Bilingual Added Authorization in Spanish Program

To receive the Bilingual Added Authorization in Spanish students must take the TWO bilingual courses:

EDMS 4101B Language Arts Teaching and Learning (Spanish) 3 units or EDMD 5101

Teaching & learning in Spanish Multilingual Settings 3 units

(To be taken instead of EDMS 4101A)

And EDMS 5106B. Teaching and learning social studies. 3 units or EDMD 5102 Cultural Proficiency in Spanish Multilingual settings 3 units, Instead of EDMS 5106A

As well, students need to clear the linguistic requirements in Spanish by taking the WCOE Spanish placement test or at least two courses of Spanish Grammar and Culture (e.g. SPAN 3310, 3305, or 3309) The program coordinators will supervise this requirement.

Early Field Work and Supervised Student teaching or Supervised Intern Teaching must be done in a bilingual classroom. All students seeking the Bilingual Added Authorization in Spanish must consult with the faculty advisor for students in this concentration.

Post credential BiAu students need at least the Two classes, the lingustic requirement and 2oh. minimum of clinical practice.

Credential Requirements (33-36 units)

Courses for all four concentrations. Students must complete all program course work with a grade point average of 3.0 ("B") with no course grade lower than "B-."

EDMS 5100	Psychological Foundations of Education	3
EDMS 5102	Pedagogical Foundations for Teaching English Learners	3
EDMS 4101A	Language Arts Teaching and Learning	3
or EDMS 4101B	Language Arts Teaching and Learning in Bilingual Settings	
or EDMD 5101	Teaching & Learning Methods in Spanish Multilingual Settings:	
EDMS 4103	Creating Supportive and Engaging Learning Environments	2
Supervised Student Teaching †		6-9
EDMS 5104	Mathematics Teaching and Learning	3
EDMS 5105	Science Teaching and Learning	3
EMAT 5100	Technology and Instructional Practices for Educators	1
EDMS 5106A	Social Studies and the Arts Teaching and Learning	3
or EDMS 5106B	Social Studies and the Arts Teaching and Learning in Bilingual Settings	
EMAT 5101	Education, Diversity and Social Justice	3
EDMS 4110	Assessment Seminar: CalTPA Cycle	3
Total Units		**33-36**

†
- Students seeking only the Multiple Subject Credential must complete EDMS 4107A.
- Students seeking the Bilingual Added Authorization must complete EDMS 4107 and are placed in dual language classrooms.

- Students seeking the Inter Credential with Bilingual Added authorization must complete, EDMS 4108A, EDMS 4108B, and EDMS 4109 and are placed in dual language classrooms.

Spanish Bilingual Students need to complete at least 20 hours of Clinical Practice in Bilingual settings, according to the CTC. Usually embedded as Observation hours EDMD 5101 or EDMD 5102.

Single Subject - Intern Track Credential

Admission to the university must precede admission to the credential program. This is a three-semester program for full-time students. Part-time students can complete the program in two years or more.

Admission to the Program and Student Teaching

In addition to the general admission requirements for the university, students must meet the following requirements prior to enrolling in the student teaching track:

1. Successfully complete the California Basic Educational Skills Test (CBEST);
2. Demonstrate Subject Matter Competency (SMC) in the content area they plan to teach. Subject Matter Competency can be demonstrated by having a degree from a California Commission on Teacher Credentialing (CCTC) waiver program or passing (if necessary) the appropriate CSET examination as early as possible in order to be able to provide verification of passing scores with their application for admission to the program.
3. Successfully complete the U. S. Constitution requirement, CPR examination and be employed in a district that has an internship contract with the Division of Teacher Education.

Admission to the Program

Interns must turn in a Program Application File (PAF) with all the information to the Credentials Office, CE-102. Candidates will not be considered until all the following information is provided:

1. Two letters from faculty members in the student's major department and at least one from a principal or teacher who can attest to the applicant's teaching skills in classroom settings;
2. Meeting with education advisor and signed advising form or attend a program advisory meeting to determine requirements of the program;
3. Verification of a negative tuberculin examination within the last 24 months;
4. Academic Achievement
   a. Applicants must possess the following minimum grade point averages:
      i. A grade point average of 2.67 in all baccalaureate and postbaccalaureate course work or at least 2.75 in the last 90 quarter units attempted;
      ii. A grade point average of 3.0 ("B") in professional education course work with no course grade in this area lower than "B-." Students can only discount one grade in the program courses. They can repeat a total of two courses in the program;
   b. Written verification of CCTC waiver program or passing the California Subject Examinations for Teachers (CSET), and/or the Single Subject Assessment for Teaching (SSAT) in the content area in which the candidate is planning to teach.
5. Completion of one of the following approved subject matter preparation programs within one of these majors at this university. Note: A list of the required grade point averages for each subject matter area is available from the Credentials Office and the Teacher Education Office.

Single Subject Credential	Degree Major
Art	B.A. Art (Plan I)
English	B.A. English
Foreign Language	B.A. Spanish or B.A. French
Health Science	B.S. Health Sciences
Foundational Mathematics/	B.A. Mathematics
Mathematics	B.S. Mathematics
Music	B.A. Music (Music Education)
Physical Education	B.S. Kinesiology
Foundational Science/	B.A. in the Science
Sciences	B.S. in the Sciences
Social Science	B.A. Social Sciences
Theater	B.A. in the Theater Arts

   For further information on other majors, supplementary authorizations, examinations and waivers, students should contact the Teacher Education Office and/or the appropriate major department.
   OR
   Completion of the CSET (California Subject Examination for Teachers) and/or the Single Subject Assessment for Teaching (SSAT) in the specialty teaching area the student is planning to teach;
6. Submit passage of the U.S. Constitution requirement and the CPR examination;
7. Completion of the upper-division writing requirement at the university or the equivalent graduation requirement at another accredited institution, or a score of 41 or better on the written portion of the CBEST; (CBEST examination does not meet the graduate entrance writing requirement for the Master of Arts degree.)
8. Submission of evidence that the applicant has passed the California Basic Educational Skills Test (CBEST);
9. Interns must be employed in a school district or school site that has an internship contract with the College of Education;
10. In addition, the following criteria are used: professional aptitude, personality and character, oral and written language usage, and interest in multicultural education.

All course work taken at another institution, or more than seven years ago, is subject to approval by the director of the Single Subject Program. No more than 14 quarter units of the credential program may be transferred. Student teaching or internship teaching is never transferable. Students transferring units from another institution may be required to take HSCI 1000 and ESPE 3350.

Each applicant is reviewed in terms of all of the above criteria. In addition, internship teaching for the preliminary credential is a full-time assignment for five quarters that only begins in the fall, winter or spring quarters. No concurrent course work should be taken beyond the required program courses without permission from the program coordinator.

Credential Requirements (34 units)

Foundational Single Subject Coursework		
ESEC 6001	Classroom Management & Pedagogy	3
ESEC 6002	Educational Equity and Advocacy	3
ESEC 6003	Pedagogical Foundations for English Language Learners in Secondary Classrooms	3
ESEC 6004	Adolescent Development and Educational Theory	3
ESEC 6005	Literacy Across the Content Areas	3
ESEC 6006	Secondary Education Special Topics (Capstone)	3
Choose One of the Following Single Subject Methods Courses		3
ESEC 6010	Methods of Teaching in the Content Areas: Art	
ESEC 6011	Methods of Teaching in the Content Areas: English	
ESEC 6012	Methods of Teaching in the Content Areas: World Language	
ESEC 6013	Methods of Teaching in the Content Areas: Mathematics	
ESEC 6014	Methods of Teaching in the Content Areas: Music	
ESEC 6015	Methods of Teaching in the Content Areas: Physical Education	
ESEC 6016	Methods of Teaching in the Content Areas: Science	
ESEC 6017	Methods of Teaching in the Content Areas: Social Science	
ESEC 6018	Methods of Teaching in the Content Areas: Theater	
Supervised Intern Teaching		
ESEC 6071	Intern Supervision I	3
ESEC 6055	Internship Seminar I	2
ESEC 6072	Intern Supervision II	3
ESEC 6056	Internship Seminar II	2
Teacher Performance Assessments		
ESEC 6034	Teaching Performance Assessment Seminar	3
Total Units		**34**

Applications for intern candidacy must be submitted in the quarter prior to the commencement of the internship. It is the responsibility of the intern candidate to obtain employment. The university provides the names of school districts that have intern contracts. Applicants who are accepted to intern candidacy, but who do not find a position, are qualified for regular student teaching.

Additional Requirements

Passage of the California Teacher Performance Assessment Tasks 1 and 2 is required.

Upon completing the requirements for the internship program, candidates may apply for a preliminary credential. Within two years candidates must complete an induction program in the district in which they are employed to meet additional CCTC requirements to obtain a professional clear credential.

Note: Pending state legislation may require curricular changes. Students must consult the current information sheet for this credential in the Teacher Education Office, CE-102. In addition, students may be eligible for SB 57 Early Completion Internship Option. See information in the Teacher Education Office.

Single Subject - Student Teaching Track Credential

The Single Subject Credential program is designed for post-baccalaureate students who will take courses to prepare them to receive a Single Subject Teaching Credential. All courses and experiences are created under the guidelines as recommended by the Credential of Teaching Commission (CTC).

Admission to the university must precede admission to the credential program. This is a three-semester program for full-time students. Part-time students can complete the program in two years or more. For CSUSB credential students we are accept 18 units from the CSUSB Multiple and Single Subject Preliminary Credential programs.

Admission to the Program and Student Teaching

In addition to the general requirements for the University, students must meet specific requirements for admission prior to enrolling in the program:

1. Hold a baccalaureate or higher degree from an approved accredited college or university;
2. Demonstrate Subject Matter Competency (SMC) by successful completion of a baccalaureate or higher degree from a regionally accredited institution of higher education in one of the subject areas in which the commission credentials candidates PSA 23-04 (https://www.ctc.ca.gov/docs/default-source/educator-prep/ps-alerts/2023/psa-23-04.pdf?sfvrsn=574920b1_9) or through another option approved (https://www.ctc.ca.gov/educator-prep/subject-matter-requirements/) by CTC;
3. Complete the Program Application File (PAF) and submit it to the Credentials Office, CE-102;
4. You must complete the online University Application to be admitted as a Graduate Student. You will need to submit transcripts from each institution attended (with the exception of California State University, San Bernardino) to Graduate Admissions by the deadline.
5. Two Letters of Recommendation – These letters must be completed on our Letter of Recommendation forms. Please obtain these letters from someone who is able to address your scholastic performance and suitability for teaching (a family member cannot complete these letters);
6. Advising Form – You will need to either attend an information session or schedule an appointment with a Single Subject Advisor to obtain this form and submit with your Program Admissions File;
7. Verification of Negative TB Test Results – Submit a copy, must include the following: Your name, agency where TB test was administered and read, signature from authorized personnel, date the TB test was read and that you have no presence of TB. Results are valid for four years;
8. Verification of Certificate of Clearance – You must complete the Request for Livescan Service (41-LS) with a Transmitting Agency,

then you will need to follow up with the Commission on Teacher Credentialing by submitting an application for your Certificate of Clearance;

9. Academic Achievement
   a. Applicants must possess the following minimum grade point averages:
      i. A grade point average of 2.67 in all baccalaureate and post-baccalaureate course work or at least 2.75 in the last 90 quarter units attempted.
      ii. A grade point average of 3.0 ("B") in professional education coursework with no course grade in this area lower than "B-." Students can only discount one grade in the program courses. They can only repeat a total of two courses in the program.
   b. Completion of one of the following approved subject matter preparation programs or these majors at this university:

Single Subject Credential	Degree Major
Art	B.A. Art (Art Education concentration)
English	B.A. English
Foreign Language	B.A. Spanish or B.A. French
Foundational Mathematics	B.A. Mathematics
Mathematics	B.S. Mathematics
Music	B.A. Music (Music Education)
Physical Education	B.S. Kinesiology
Theater	BA Theater Arts

   For further information on other majors, supplementary authorizations, examinations and waivers, students should contact the College of Education Student Services Office and/or the appropriate major department.
10. All course work taken at another institution, or more than seven years ago, is subject to approval by the director of the Single Subject Program. No more than 14 semester units of the credential program may be transferred. Student teaching is never transferable. Students transferring units from another institution may be required to take HSCI 1000 and ESPE 3350.
11. Must complete an admission interview with Single Subject faculty to determine program fit.

Each applicant must complete SMC or have a B.A. degree in the content area they are planning to teach before student teaching and associated courses.

Spanish Bilingual Authorization Candidates.

Teacher candidates may add the Spanish Bilingual Authorization, previously they to clear the linguistic requirements, interview with the bilingual program coordinator and get the approval letter. This can be done by taking 3000 level Spanish classes such as SPAN 3301, SPAN 3305 or SPAN 3309 or passing the WCOE Spanish Placement test for teacher Candidates.

Post credential Spanish Bilingual Authorization Candidates

Candidates with a preliminary or clear single subject credential can add the bilingual authorization in Spanish by clearing the linguistic requirements, and taking the EDMD 5101 and EDMD 5102 (6 units) when offered. As well Spanish Bilingual Students need to complete at least 20 hours of Clinical Practice in Bilingual settings, according to the CTC. Usually embedded as Observation hours EDMD 5101 or EDMD 5102.

Credential Requirements (33 units)

Once admission to the program has been granted and program requirements have been successfully completed, students may enroll in the following courses. Students must successfully complete all the courses in each semester before enrolling in subsequent semesters.

Foundational Single Subject Coursework		
EDMD 5101	Teaching & Learning Methods in Spanish Multilingual Settings:	3
Spanish Bilingual Student add EDMD 5102 to complete their Bilingual Authorization.		
ESEC 6001	Classroom Management & Pedagogy	3
ESEC 6002	Educational Equity and Advocacy	3
ESEC 6003	Pedagogical Foundations for English Language Learners in Secondary Classrooms	3
ESEC 6004	Adolescent Development and Educational Theory	3
ESEC 6005	Literacy Across the Content Areas	3
Spanish Bilingual students my add EDMD 5101 in lieu of ESEC 6005		
ESEC 6006	Secondary Education Special Topics (Capstone)	3
Choose One of the Following Single Subject Methods Courses		3
ESEC 6010	Methods of Teaching in the Content Areas: Art	
ESEC 6011	Methods of Teaching in the Content Areas: English	
ESEC 6012	Methods of Teaching in the Content Areas: World Language	
ESEC 6013	Methods of Teaching in the Content Areas: Mathematics	
ESEC 6014	Methods of Teaching in the Content Areas: Music	
ESEC 6015	Methods of Teaching in the Content Areas: Physical Education	
ESEC 6016	Methods of Teaching in the Content Areas: Science	
ESEC 6017	Methods of Teaching in the Content Areas: Social Science	
ESEC 6018	Methods of Teaching in the Content Areas: Theater	
Student Teaching		
ESEC 6020	Supervised Field Experience	6
Teacher Performance Assessments		
ESEC 6034	Teaching Performance Assessment Seminar	3
Total Units		**33**

Additional Information

Students who fail to successfully complete any program course with a "B-" or better will be denied continuation in the program. An appeal process is available. Consult the Program Coordinator for details.

Upon completing all requirements for the single subject program, the candidate will be awarded a certificate of completion from California State University, San Bernardino and may apply for a preliminary credential.

Within two years candidates must complete an Induction Program that is offered by the school district in which they secure employment. Preliminary credential students may obtain a professional clear credential by meeting the Induction Program of the school district.

Minor in Gender and Sexuality Studies

Gender and Sexuality Studies allows students to examine how gender and sexuality as social constructs shape individual lives, groups, institutions, and social structures. Students will have the opportunity to examine individual development, couples, families, small groups, and organizations as well as the media, arts, and economic and political systems. The program courses explore how gender and sexuality intersect with race, culture, ethnicity, and social class in the interest of social justice. Toward these ends, students customize programs specifically to their interests and professional goals, selecting from a wide variety of courses across the university

Minor Requirements (18 units)

Six units chosen from:		6
GSS 1000	Introduction to Women's Studies	
GSS 1010	Introduction to Masculinity Studies	
GSS 1020	Introduction to Transgender Studies	
GSS 1030	Introduction to Lesbian, Gay, Bisexual, Transgender, and Queer Studies	
Six units chosen from:		6
GSS 4200	Feminist Theory	
GSS 4250	Women as Agents of Social Change	
GSS 4500	Queer Theory	
Six units chosen from:		6
AH 3210	Visualizing Gender, Performing Identity	
ANTH 3603	Gendered Worlds: Power, Difference, and & In/equality	
ARAB 3900	Female Voices in Arab American Literature	
CAL 3250	Perspectives on Gender	
CJUS 4451	Women and Crime	
CJUS 4462	Domestic Violence	
COMM 3336	Queer Cinema	
COMM 4211	Communication and Gender	
COMM 4301	Gender, Race, and Class in Media	
COMM 5301	Media Sex and Violence	
COMM 5303	Muslim Women in Media and Society	
ECON 3109	Political Economy of Women	
ENG 3360	Women Writers	
GSS 1000	Introduction to Women's Studies (If not taken to fulfill the GSS Core)	
GSS 1010	Introduction to Masculinity Studies (If not taken to fulfill the GSS core)	
GSS 1020	Introduction to Transgender Studies (If not taken to fulfill the GSS core)	
GSS 1030	Introduction to Lesbian, Gay, Bisexual, Transgender, and Queer Studies (If not taken to fulfill the GSS core)	
GSS 3901	Special Topics in Gender and Sexuality Studies	
GSS 4200	Feminist Theory (If not taken to fulfill the GSS Upper Division Electives)	
GSS 4250	Women as Agents of Social Change (If not taken to fulfill the GSS Upper Division Electives)	
GSS 4500	Queer Theory (If not taken to fulfill the GSS Upper Division Electives)	
GSS 5751	Internship in Gender and Sexuality Programs and Services	
GSS 5752	Internship in Gender and Sexuality Programs and Services	
GSS 5753	Internship in Gender and Sexuality Programs and Services	
GSS 5951	Independent Study	
GSS 5952	Independent Study	
GSS 5953	Independent Study	
HIST 3450	Women in U.S. History, 1607-Present	
HIST 3460	Women in the Black Freedom Movement	
HIST 3620	LGBT History	
HIST 4490	Gender and Development in Africa	
HIST 5610	Gender, Sex, and Conquest in the American West	
HSCI 3010	Health and Human Sexuality	
HSCI 4050	Health Issues of Men	
HSCI 4212	Topics about Special Populations	
MUS 3080	Women in Music	
MUS 1969	LGBTQ+ Influences in Music	
NSCI 3250	Perspectives on Gender	
PSCI 3400	Sex and Politics	
PSYC 3301	Psychology of Human Sexuality	
PSYC 3331	Psychology of Women and Gender	
PSYC 3341	Women and Violence	
PSYC 3349	Gay and Lesbian Issues: Psychological Perspectives	
SOC 3360	Black Women and Feminism	
SOC 3440	LGBTQ Families	
SOC 4440	Sociology of Sex and Gender	
SSCI 3250	Perspectives on Gender	
SW 5053	Social Work Practice with the LGBTQ2SIA+ Community	
TA 4663	Dramatic Literature of Identity (When the topic is LGBTQ Theatre)	
PHIL 3540	Feminist Philosophy	

PHIL 3012	Philosophy of Gender	
Total Units		**18**

Teaching Certificate in Ethnic Studies

Catalog Description

Given the continued need to diversify educational curricula, the racial diversity in California, and the multiple benefits of participating in Ethnic Studies, the California public education context requires that students participate in Ethnic Studies courses at the K-12, community college, and four-year college levels. Ethnic Studies education represents a project to center the contributions of Communities of Color and “encourages both teachers and students to critique racial oppression at the institutional, interpersonal, an internalized levels while also showing how each level influences the other” (Tintiangco-Cubales, et al., 2015, p. 113).

Admissions Requirements

1. Students who enroll in this course can co-concurrently enroll in the Multiple Subject or Single Subject Credential programs
2. Students who have completed their teaching credential
3. Teachers of records in K-12
4. Students with a bachelor's or master's degree.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (12 units)

Core Requirements (12)		
EDES 5001	Race and Racism in the U.S. Educational System	3
EDES 5002	History of Ethnic Studies Education	3
EDES 5003	Pedagogies and Methodologies of Ethnic Studies Education	3
EDES 5004	Creating the Future of Ethnic Studies Education	3
Total Units		**12**

Certificate in Gender and Sexuality Studies

The Gender and Sexuality Studies certificate program allows students to examine how gender and sexuality as social constructs shape individual lives, groups, institutions, and social structures. Students will have the opportunity to examine individual development, couples, families, small groups, and organizations as well as the media, arts, and economic and political systems. The courses explore how gender and sexuality intersect with race, culture, ethnicity, and social class in the interest of social justice.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate requirements (18 units)

Six courses (18 units) selected from the following:		18
GSS 1000	Introduction to Women's Studies	3
GSS 1010	Introduction to Masculinity Studies	3
GSS 1020	Introduction to Transgender Studies	3
GSS 1030	Introduction to Lesbian, Gay, Bisexual, Transgender, and Queer Studies	3
GSS 3901	Special Topics in Gender and Sexuality Studies	3
GSS 4200	Feminist Theory	3
GSS 4250	Women as Agents of Social Change	3
GSS 4500	Queer Theory	3
GSS 5953	Independent Study	3
Total Units		**45**

College of Extended and Global Education

John H. Binkley, Associate Vice Provost & Dean
Esther Lee, Associate Dean, International Partnerships and Extension Programs

Rose Wilson, Assistant Dean, Professional and Continuing Education

Julie Pai, Director, Extended Education Programs

Stacia McCambridge, Director, International Admissions and Student & Financial Services

Isaac Morales, Associate Director, International Student and Scholar Services

Center for Global Innovation, 3rd floor

(909) 537-5975 College of Extended and Global Education (http://www.csusb.edu/cege/) website

Extend your Knowledge, Expand your Opportunities

The College of Extended and Global Education provides lifelong learning opportunities for different stages in your life ranging from high school, college, career to retirement. We also extend the resources of the university into the community, region, nation, and around the world.

Mission Statement

The College of Extended and Global Education is a catalyst for expanding access to education and professional development in a learner-centered environment, thereby fostering social mobility and economic development, both in the region and globally.

Vision Statement

The College of Extended and Global Education aspires to be recognized as a global leader for excellence in innovative education for diverse learners of all ages and backgrounds.

https://www.csusb.edu/pace/degrees (https://www.csusb.edu/pace/degrees/)

Departments

- Student Services
  - Continuous Enrollment (https://www.csusb.edu/pace/all-programs/continuous-enrollment-graduate-candidacy-standing/)
  - Open University (https://www.csusb.edu/cege/open-university/)
- International Education "General Fund"
  - International Admission (https://www.csusb.edu/international-education/international-admissions/)
  - Education Abroad (https://goabroad.csusb.edu/)
  - International Student and Scholar Services (https://www.csusb.edu/international-education/student-services/)
- Professional and Continuing Education
  - Online Certificates (https://www.csusb.edu/pace/certificates/)
  - Self-support (https://www.csusb.edu/pace/degrees/)Degree (https://www.csusb.edu/pace/degrees/) Programs (https://www.csusb.edu/pace/degrees/)
  - All (https://www.csusb.edu/pace/all-programs/)Programs (https://www.csusb.edu/pace/all-programs/)
  - Workforce Development (https://www.csusb.edu/pace/workforce-development/)
- International Extension Programs
  - English Language Program (https://www.csusb.edu/international-education/programs/english-language-program/)
  - Academic Pathway Program (https://www.csusb.edu/international-education/programs/academic-pathway-program/)
  - Study in the USA (https://www.csusb.edu/international-education/programs/study-usa/)
  - International Partnership Programs (https://www.csusb.edu/international-education/programs/partnership-programs/)
  - Self-support Degree Programs (https://www.csusb.edu/pace/degrees/)
  - Self-support Post-Graduate Certificate Programs (https://www.csusb.edu/international-education/programs/post-graduate-certificate-programs/)

Certificate Programs

California State University, San Bernardino's College of Extended and Global Education offers high-quality courses and certificates programs of which may be completed online. Courses are led by expert instructors and university faculty with extensive knowledge in their fields.

Our online certificates are affordable, convenient, and designed for learners with busy lifestyles and in different stages of life. Beyond CSUSB online certificates, we offer over 300 more through qualified partners. CSUSB extends learning to the community, region, nation, and world.

In-service Credit for Training Programs

Schools, school districts, municipalities, and other organizations interested in planning special staff development programs may contact the College of Extended and Global Education to arrange for university credit. Training programs that meet academic criteria set forth by CSUSB can provide participants with Continuing Education Units (CEUs) or extension credit (non-degree credit) that can be used toward school district requirements for professional development. The application process is simple and quick. For more information, call (909) 537-5976.

Workplace Training / Contract Programs / Customized Training

The College of Extended and Global Education provides training development programs, certificate programs and educational components for grants on a contractual basis for business (large and small), private industry, health care organizations, not-for-profit organizations and government agencies.

In direct consultation with the participating organization, the College of Extended and Global Education develops custom-designed professional development programs, including language programs, to accelerate the professional effectiveness, productivity and problem-solving skills of the organization's staff. For more information, call (909) 537-3982.

Online Career Training Programs

The College of Extended and Global Education offers online continuing education programs and courses designed to provide the workforce skills necessary to acquire professional skills needed in many in-demand occupational areas such as business, education, health care, health sciences, education, electronic arts and information technology. The programs are designed to develop expertise in desired fields and/or prepare participants for industry certification exams.

In direct consultation with the participating organization, the College of Extended and Global Education develops custom-designed professional development programs, to improve the professional effectiveness, productivity and problem-solving skills of the organization's staff. For more information, call (909) 537-3982.

In addition, Extended and Global Education offers hundreds of individual online personal enrichment, skill-building and training courses in many subject areas. For more information, call (909) 537-5976.

Continuous Enrollment

University policy requires all graduate students to be continuously enrolled at CSUSB each semester until the awarding of the degree. CEGE, in partnership with the Office of Graduate Studies, offers Continuous Enrollment courses through Special Sessions whereby students who

have completed all course work for their degree and are preparing for their comprehensive exam, thesis, project, or dissertation can enroll and maintain good standing with CSUSB. No credit is earned, but students are allowed to maintain their status in their graduate degree program. For more information, call (909) 537-5975.

Open University

Open University (also called “open enrollment”) allows non-matriculated/non-degree seeking individuals to enroll in regular university courses on a space-available basis. Most courses listed in the University catalog are open to non-matriculated students through the Open University program. Students may apply up to 24 semester units earned through Open University toward a bachelor's degree and 9 semester units toward a master's degree (subject to approval by the appropriate department).

Open University is designed for those who:

- want to examine a particular field before seeking admission to the University and enrolling in a degree program;
- want to improve their GPA in order to reenter an academic program;
- want to update professional skills;
- missed the deadline for admission to CSUSB;
- have stopped attending CSUSB and wish to re-enter;
- wish to take selected CSUSB courses that will transfer to another university; and/or
- want to take a course for the enjoyment of learning.

Students who desire to enroll in Open University are required to obtain a registration form from the College of Extended and Global Education and the approval of the instructor. Graduate-level and education credential courses are not available through Open University, and certain other courses are restricted and require departmental approval. Matriculated students are not allowed to enroll concurrently in the Open University program.

Minimum Qualifications for Granting Exceptions to Open University Students Enrolling in Graduate-Level Courses:

To enroll in graduate level coursework at CSUSB, a student must meet the following conditions:

1. Either have an undergraduate degree from an accredited institution or be in the last year of an undergraduate degree program in an accredited institution,
2. Have at least a 2.5 GPA overall or in the last 60 semester or 90 quarter units, and
3. Meet the prerequisite requirements for the course by providing evidence of coursework or professional experience, which must be approved by the department in which the course is offered.

For more information, call (909) 537-5975.

Center for International Studies and Programs (CISP)

The Center for International Studies and Programs is the home of international education. CISP houses three primary departments: International Students and Scholars, Education Abroad, and Partnership Programs. The International Students and Scholars team provides support to international faculty, staff, and students who hold visas supported by CSUSB that apply to their stay in the United States, and provides educational workshops and programs for campus engagement and education. Education Abroad coordinates all education abroad programming for students seeking an educational experience in another country through custom faculty-led programs, direct-enrollment programs, or exchange programs. The Partnership Programs department coordinates support for all collaborations, supporting partners, students and faculty who participate in these special educational cooperative activities. Together, these offices provide guidance and support for international education opportunities for faculty, staff, and students at CSUSB.

Education Abroad

At CSUSB, students have many opportunities to study abroad or away for a summer, semester, full year, or winter intersession participating in a credit-bearing program or a non-credit experience such as volunteering, interning, or service-learning. For more information visit the Education Abroad website (http://goabroad.csusb.edu) or email goabroad@csusb.edu.

International Extension Programs

International Extension Programs (IEP) is a division within the College of Extended and Global Education that offers programs for international students and clients on a self-support basis. Participants from across the world attend IEP credit or non-credit courses and programs that can be customized in content and length.

IEP offers numerous program options in the area of intensive English language training, Teaching English to Speakers of Other Languages (TESOL) Programs, International Training & Education Programs, and Study Abroad in the USA Programs. For more information visit the International Extension Programs website, (https://cel.csusb.edu/global/) call (909) 537-5978, or email iep@csusb.edu.

The English Language Program (ELP)

The English Language Program (ELP) is designed for international students, professionals or those seeking an intensive English experience focusing on reading, writing and listening/speaking, as well as an introduction to American culture. The program focuses on providing the academic English language skills needed to meet the requirements for admission into the university’s undergraduate or graduate programs. All students are required to take a three-part placement test upon entrance. The placement test consists of an oral interview, written composition and a standardized multiple-choice exam. Students are placed in a level of instruction based on the test results. ELP consists of 4 levels:

Level 1 Beginner

Students will study basic grammar concepts, develop writing skills, and become familiar with new vocabulary and spelling through reading, listening, and speaking exercises. In addition, they will develop essay writing and conversational skills.

Level 2 Intermediate

Students will transition into the use of free expression to continue to acquire English skills used in intermediate writing assignments, conversation and reading. Students will understand and accurately use basic and complex English structures and build on the writing process as they continue to develop their analysis, critical thinking, and summarizing skills.

Level 3 Advanced - Undergraduate Program Preparation

Through the improvement of their critical thinking skills as applied to written and oral academic research and argument, as well as the use of more complex vocabulary, students will attain the language needed for university study. Successful completion will waive the TOEFL requirement for undergraduate admission into CSUSB.

Level 4 Advanced II – Graduate Program Preparation

With a graduate program preparation focus, this level is designed to increase English proficiency through advanced research and essay writing, test intensive reading and oral presentations. Successful completion will waive the TOEFL requirement for admission to most graduate programs at CSUSB.

Academic Pathway Program (APP)

Academic Pathway Program (APP) provides an excellent opportunity for students who are serious about their academic goals, but do not meet admission requirements for California State University, San Bernardino (CSUSB) based on their high school Grade Point Average (GPA).

The program allows students to be conditionally admitted to a CSUSB undergraduate program with their high school GPA between 2.00 and 2.49. Students who successfully complete APP with a GPA of 2.75 or higher will be admitted to bachelor degree programs at CSUSB.

The APP is comprised of up to 30 units of academic credit classes. These classes are to fulfill general education requirements at CSUSB. Students typically enroll in eight classes over one academic year (fall and spring semesters). Classes may transfer towards undergraduate degree requirements.

Study Abroad in the USA

Study Abroad in the USA program gives visiting international students an opportunity to take university courses that can be transferred to their home university. Participants come to CSUSB for one or several terms and take courses with American students.

TESOL Programs

The TESOL programs are designed for individuals who have a desire to work with children and/or adults who are learning English as a second language. IEP offers TESOL Teacher Training, 120-Hour TESOL Certificate Programs and Advanced TESOL Certificate Programs.

While the TESOL Teacher Training program is a one-month noncredit practice-focused program, the advanced TESOL Certificate Program provides an excellent foundation in TESOL practices, research, and theory. If participants decide they would like to pursue a master's in TESOL at CSUSB, the coursework in this advanced certificate program applies towards their degree.

International Training & Education Programs

The International Training and Education Programs (ITEP) offer custom-designed programs for a variety of international participants ranging from high school students to government and corporate executives. Executives and managers in the public and private sectors from around the world attend management training, educational and other training programs. Through these programs, ITEP promotes business cooperation and educational and cultural exchanges. Many ITEP programs are designed for mid-career professionals and executives seeking training in various topics such as business and social etiquette, organizational practices and protocol, and corporate and government culture.

ITEP also offers advanced technology training for engineers and technicians in various industrial fields. ITEP training programs are designed to help international participants advance their careers while they obtain the skills necessary to obtain professional positions in many in-demand occupations. IEP can also design programs tailored to the individual group's specific needs. Programs are customized based on length, subjects, specific interests, needs and budget. Programs in English for specific purposes can be arranged to meet industry or academic needs.

Global Summer Entrepreneurship Program

The Global Summer Entrepreneurship Program is an intensive training program designed for business students or mid-career individuals who want to expand their professional horizons. It prepares participants for entrepreneurial careers, focusing on the process and methods involved in starting and growing enterprises. CSUSB's entrepreneurship program is AACSB-accredited and has been honored as a top 35 Global Entrepreneurship Program for Fostering Entrepreneurship. The GSEP faculty come from the top four entrepreneurship programs in the nation, and students also learn from guest speakers who are successful leaders in their industries.

Self-support Degree Programs

The International Extension Programs department offers four self-support master’s degree programs to international students: 1) Master of Science in Business and Data Analytics, 2) Master of Science in Cybersecurity and Analytics, 3) Master of Science in Finance, and 4) Master of Arts in Teaching English to Speakers of Other Languages (Accelerated). All four programs provide in-person instruction to international students using an accelerated format. After completing their master’s degrees, international students can use the federal Optional Practical Training (OPT) program to work for one year in the USA without any visa sponsorship.

Self-support Post-Graduate Certificate (PGC) Programs

CSUSB’s Post-Graduate Certificate (PCG) Programs are offered in a cohort system for domestic and international students, utilizing a fully in-person format. Students take four three-semester unit courses, two in Fall semester and two in Spring semester, for a total of 12 units over 9 months. After completing both semesters, international PGC graduates can use the federal Optional Practical Training (OPT) program to work for one year in the USA without any visa sponsorship. Students who go on to complete a master’s degree at CSUSB can qualify for an additional OPT opportunity.

Bachelor of Arts

- Criminal Justice (p. 368)
- Social Sciences (p. 476)
- Administration (p. 383)

Master of Science

- Accountancy (p. 390)
- Business and Data Analytics (p. 472)
- Cybersecurity and Analytics (p. 473)
- Financial Analysis (p. 392)
- Logistics and E-Commerce (p. 474)

Master of Business Administration

- MBA Online Executives (p. 381)

Master of Social Work

- MSW Pathway Hybrid (p. 373)

Professional & Continuing Education

Center for Global Innovation, 3rd Floor
(909) 537-5976 Professional and Continuing Education website (https://www.csusb.edu/pace/)

California State University, San Bernardino's Professional and Continuing Education delivers online degrees, certificates, and individual courses. Programs are offered in business, technology, education, criminal justice, sociology, psychology, social work, cybersecurity, management, and several other fields.

Lifelong learning opportunities range from high school to college, and from career to retirement. Learn from expert instructors and university faculty in courses that are affordable, convenient, and made just for you!

Undergraduate Degrees

Bachelor of Arts

- Social Sciences (p. 476)

Stater Bros. Markets Bachelor of Arts

- Applied Business (p. 476)

Graduate Degrees

Master of Arts

- Teaching English to Speakers of Other Languages (TESOL) (Accelerated) (p. 471)

Master of Science

- Financial Analytics (p. 392)

Graduate Certificates

- Hospitality and Tourism Management (p. 478)
- National Cybersecurity Studies (p. 353)

Master of Arts in Teaching English to Speakers of Other Languages (TESOL) (Accelerated)

This program offered online through College of Extended and Global Education *(*https://www.csusb.edu/pace/*)*

The 12-Month Accelerated Master of Arts in Teaching English to Speakers of Other Languages (MA TESOL) Program meets the increasing global demand for skilled English language educators. This program offers international students an immersive and transformative learning experience, equipping them with the pedagogical expertise and practical teaching skills necessary to excel as language teachers in diverse educational settings. Through a carefully curated curriculum and hands-on teaching opportunities, graduates will develop a deep understanding of language acquisition theories, cutting-edge pedagogical approaches, and the cultural sensitivities required to engage learners from diverse linguistic and cultural backgrounds.

1. **Admission Requirements:**

Suitability for admission to the program will be based on an examination of the applicant's entire application package. In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. **Bachelor's Degree**: A bachelor's degree from an accredited college or university, with a cumulative grade point average (GPA) of 2.5 or above.
2. **Transcripts**: Submission to the CSUSB Office of Graduate Studies of official transcripts from all institutions attended. If a transcript is not in English, then the applicant must also send a certified literal English translation of the transcripts, along with the official original-language transcripts with proof of degree, to:

CSUSB Graduate Admissions Office

5500 University Parkway

San Bernardino, CA 92407

1. **English Proficiency for International Students:**

Applicants whose education has been in a language other than English must submit proof of English ability. They can satisfy this requirement in a number of ways:

1. Submit scores from the Test of English as a Foreign Language (TOEFL) of iBT 79/80 or PBT 550 or higher, taken within the past two years;
2. Submit scores from the IELTS exam of 6.0 or higher, taken within the past two years;
3. Submit scores from the Duolingo English exam of 105 or higher, taken within the past two years; or
4. Complete Level 4 of CSUSB's English Language Program (ELP).

Advancement to Candidacy: In order to be advanced to candidacy, a student must have:

1. Achieved classified standing by completing EESL 5050 and EESL 5300 with a grade of B or better;

2. Applied successfully for classification after having completed 3-18 semester units of applicable course work;
3. Secured approval of candidacy from Watson College of Education;
4. Filed an approved graduate program for completion of the degree, prepared in consultation with an advisor and approved by the program coordinator;
5. Students who completed their bachelor's degree in an English-dominant country must have two semesters or three quarters of study in one or more world languages (not English) at the post-secondary level;
6. Students who completed their bachelor's degree in a non-English-dominant-country must have two semesters or three quarters of study in one or more world languages (not English) at the post-secondary level, or take COMM 1006.

Requirements for Graduation:

1. A minimum of 30 semester units of acceptable graduate-level work, with a minimum of 26 units completed in residence at this university;
2. A grade point average of 3.0 (“B”) in all course work taken to satisfy the Master of Arts degree requirements, grades of “C” (2.0) or better in all courses in the program, and grades of B or better in EESL 5050 and EESL 5300;
3. Completion of the Candidate Assessment Portfolio (CAP). Details of the CAP approval process are outlined in the program information materials. The CAP must be completed prior to enrollment in EESL 6980.
4. Successful completion of EESL 6980, to meet the graduation writing requirement.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Required Courses (30)

EESL 5050	Graduate Writing for TESOL	3
EESL 5200	Language Studies for Educators	3
EESL 5300	Technology-Enhanced Language Learning	3
EESL 5500	Listening and Speaking Methods in TESOL	3
EESL 6300	Crosscultural Teaching	3
EESL 6400	Literacy in TESOL	3
EESL 6600	Structure, Function and Acquisition of English	3
EESL 6700	Principles and Practice in TESOL	3
EESL 6800	Research in TESOL	3
EESL 6900	Fieldwork: Teaching English to Speakers of Other Languages	3
EESL 6980	Comprehensive Examination in TESOL (The written comprehensive examination is designed to test the student’s knowledge of the field of Teaching English to Speakers of Other Languages. The examination is offered once each quarter and during the summer session. The student may enroll in the examination no earlier than the last quarter in which course work is taken. The student may take the examination (or any part of it) up to three times. Approval to retake the examination may be, at any time, contingent upon completion of additional designated courses.)	0

Master of Science in Business and Data Analytics

The Master of Science in Business and Data Analytics (MSBDA) is designed for a real-world applied experience that blends concepts from business, artificial intelligence (AI), and data science geared towards business applications. Our unique curriculum creates data storytellers, AI-enabled problem solvers, and business strategists prepared to make data-driven decisions that increase the competitive business advantage. With this program, graduates will:

1. Gain the technical analytical skills, AI knowledge, and business expertise to better address business challenges and create strategic solutions.
2. Use AI and data analytics to understand and anticipate the business operating environment.
3. Employ advanced analytics, and AI-driven tools to make informed decisions.
4. Upon completion of this program, graduates will be job-ready and prepared to create value for their organization after having taken ten analytics courses, including a practicum/capstone course, designed to reinforce learning and practice skills through real-world business and AI applications.

Admission to the Program

Suitability for admission to the program will be based on an examination of the entire application package. In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

- **Bachelor's Degree**: A bachelor's degree from an accredited college or university, with a grade point average (GPA) of 2.5 or above using the entire degree or the last 60 semester (90 quarter) units of coursework, which may include post-baccalaureate work.
- **Transcripts**: Submission of official transcripts from all institutions attended to CSUSB Office of Graduate Studies. CSUSB students are not required to submit any CSUSB transcripts. If the transcript is not in English, then the student must also send a certified literal English

translation of the transcripts along with the official original-language transcripts with proof of degree to:

CSUSB Graduate Admissions Office
5500 University Parkway
San Bernardino, CA 92407

To apply to the MSBDA program, students must use this link: https://www2.calstate.edu/apply (https://www2.calstate.edu/apply/)

- **Personal Statement**: Academic motivation and personal qualifications demonstrated through submission of a 200- to 250-word statement of reasons for wishing to pursue the Master of Science in Business and Data Analytics at California State University, San Bernardino.
- **English Proficiency for International Students**
  An applicant whose education has been in a language other than English must submit proof of English ability. They can satisfy this requirement in a number of ways:
  - Test of English as a Foreign Language TOEFL (iBT 79/80 or PBT 550) taken within the past two years.
  - IELTS exam score of 6.5 taken within the past two years, or
  - Complete level 4 of CSUSB's Intensive English Program (IEP).
- **Resume**: Submission of a current resume. Ensure this document included the months each position began and ended.
- **Business Aptitude Requirement**: Applicants for Master of Science in Business and Data Analytics must meet ONE of the following Business Aptitude requirements
  - Minimum two years of post-undergraduate professional and/or managerial experience or industry-relevant certifications.
  - Proof of completion of an accredited graduate degree (e.g., J.D., Ph.D., M.D.) from an accredited college or university with a minimum GPA of 2.5 in the graduate program.
- **Conditionally classified status**: Students who meet all entrance requirements may be admitted to the program in a conditionally classified status. Once students meet the minimum passing level of “B” for BDA 6010 and BDA 6020 (or successfully complete a “credit by exam” for the courses) they will be advanced to classified graduate standing in the program. Only fully classified students, however, may enroll in the other 6000-level core courses (BDA 6110 or above) unless they have written consent from the IDS Department Chair.

Advancement to Candidacy

To be advanced to candidacy, a student must have:

- Achieved fully classified standing.
- Completed at least 15 semester units of applicable graduate-level course work at the university, with a minimum grade point average of 3.0 ("B"),
- Completed an approved graduate program plan in consultation with a department advisor.

Requirements for Graduation

1. A minimum of 30-semester units of acceptable graduate-level work, consistent with the program plan (with a grade point average of 3.0).
2. Successful completion of the culminating experience project course (BDA 6830) required in the last academic period right before graduation.

Degree Requirements (30 units)

The 30 unit Master of Science in Business and Data Analytics degree program Consists of three "modules". Two modules (1 and 3) consist of three courses (3-unit courses) and one module (2) consists of four courses (3-unit courses).

BDA 6010	Business Systems and Processes	3
BDA 6020	Introduction to Data Analysis for Business	3
BDA 6030	Scripting for Business and Data Analytics	3
BDA 6110	Data Visualization	3
BDA 6120	Business and Data Analytics I	3
BDA 6130	Database for Business Applications	3
BDA 6140	Business and Data Analytics II	3
BDA 6210	Business and Data Analytics III	3
BDA 6220	Contemporary Issues in Business and Data Analytics	3
Culminating Experience		3
Total Units		**30**

Culminating Experience (3 Units)

BDA 6830	Business & Data Analytics Culminating Project	3
Total Units		**3**

Master of Science in Cybersecurity and Analytics

Offered through College of Extended and Global Education

Program Description

The Master of Science in Cybersecurity is designed for real world applied experience that combines both cybersecurity and data analytics skills. This program is designed for graduate students seeking to:

- Strategically manage risk through identification, assessment, and mitigation
- Identify security issues on all levels of organizations and the globe, along with law and compliance
- Use data analytics to understand threats, situational awareness, and strategic cybersecurity environments
- Employ data analytics techniques to detect anomalies, to predict and screen cyber threats, and to take corrective actions.
- Learn penetration testing, incident handling, and data and network protection

Upon completion of this program, graduates will be job-ready and prepared to create value for their organization after having taken analytical and cybersecurity courses as well as a practicum/capstone course designed to reinforce learning and practice skills.

Program Admission

Suitability for admission to the program will be based on an examination of the entire application package. In addition to the general requirements

of the university, specific requirements for admission to classified graduate status are:

1. **Bachelor's Degree**: A bachelor's degree from an accredited college or university, with a grade point average (GPA) of 2.5 or above using the entire degree or the last 60 semester (90 quarter) units of course work, which may include post baccalaureate work.
2. **Transcripts**: Submission of official transcripts from all institutions attended to CSUSB Office of Graduate Studies. CSUSB students are not required to submit any CSUSB transcripts. If your transcript is not in English, then you must also send a certified literal English translation of the transcripts along with the official original-language transcripts with proof of degree to:
   CSUSB Graduate Admissions Office
   5500 University Parkway
   San Bernardino, CA 92407
3. **Personal Statement**: Academic motivation and personal qualifications demonstrated through submission of a 200- to 250-word statement of reasons for wishing to pursue the Master of Science in Cybersecurity at California State University, San Bernardino, and personal qualifications that will contribute to the successful completion of the program.
4. **English Proficiency for International Students:** An applicant whose education has been in a language other than English must submit proof of English ability. They can satisfy this requirement in a number of ways:
   - Test of English as a Foreign Language TOEFL (iBT 79/80 or PBT 550) taken within the past two years.
   - IELTS exam score of 6.5 taken within the past two years, or
   - Complete level 4 of CSUSB's Intensive English Program (IEP).
5. **Resume**: Submission of a current resume.
6. **Business Aptitude Requirement**: Applicants for Master of Science in Cybersecurity must meet ONE of the following Business Aptitude requirements:
   - 2.5 cumulative GPA from a regionally accredited undergraduate program
   - Minimum two years of post-undergraduate professional and/or managerial experience or industry-relevant certifications.
   - Proof of completion of an accredited graduate degree (e.g. J.D., Ph.D., M.D.) from an accredited college or university with a minimum GPA of 3.0 in the graduate program.
7. **Conditionally classified status**: Students who meet all entrance requirements may be admitted to the program in a conditionally classified status. Once students meet the minimum passing level of “B” for IST 6115 (or successfully complete a “credit by exam” for the course) they will be advanced to classified graduate standing in the program. Only fully classified students, however, may enroll in the other 6000-level core courses unless they have written consent from the IDS Department Chair.

Advancement to Candidacy

To be advanced to candidacy, a student must have:

1. Achieved fully classified standing;
2. Completed at least 15 semester units of applicable graduate-level course work at the university, with a minimum grade point average of 3.0 ("B");
3. Completed an approved graduate program plan in consultation with a department advisor.

Requirements for Graduation

1. A minimum of 30 semester units of acceptable graduate-level work, consistent with the program plan (with a grade point average of 3.0), with at least 21 units completed at the university, and at least 21 semester units of 5000-6000-level course work;
2. Successful completion of the required foundation and core courses as outlined in the program curriculum section;
3. After advancement to candidacy, students must complete a culminating experience project course (3 units). Only students who are currently classified, have completed the required foundation and core courses, have been advanced to candidacy, have obtained approval of the MSCA program coordinator, have grades of "B" (3.0) or better, no "incomplete" grades, and are not on probation may do the culminating experience project.

Degree Requirements (30 units)

The 30 unit Master of Science in Cybersecurity degree program Consists of three "modules," each consisting of three courses (one 4-unit course and two 3-unit courses).

Core Requirements (30)		
IST 6115	Fundamentals of Cyber Security	4
IST 6117	Network Security 1	3
IST 6125	Law and Policy	3
IST 6215	Network Security 2	3
IST 6232	Risk Assessment & Management	4
IST 6235	Cyber Analytics and Visualization	3
IST 6395	Contemporary Issues and Practices in Cybersecurity 1	3
IST 6397	Contemporary Issues and Practices in Cybersecurity 2	3
Culminating Experience		4
Total Units		**30**

Culminating Experience (4 units)

The culminating experience, IST 6385, is a capstone course that integrates the various topics covered in the prior courses in an integrative project.

Master of Science in Logistics & E-Commerce

Offered through College of Extended and Global Education

The Master of Science in Logistics and E-commerce offers a unique blend of managerial and technical capabilities in both logistics and e-commerce that have been recognized and sought after in practice for some time. Students will take courses from CSUSB faculty-scholars as well as active practitioners in the fields of logistics and e-commerce. Graduates will be job-ready and prepared to create value for their organization after having taken analytical courses as well as a culminating experience project

designed to allow students to practice and demonstrate their developing critical skills.

Admission to the Program

Suitability for admission to the program will be based on an examination of the entire application package. In addition to the general requirements of the university, specific requirements for admission to classified graduate status are:

1. **Bachelor's Degree**: A bachelor's degree from an accredited college or university, with a grade point average (GPA) of 2.75 or above using the entire degree or the last 90 quarter (60 semester) units of course work, which may include post baccalaureate work. Students with a GPA lower than 2.75 will be considered based on work experience and/or GMAT/GRE scores.
2. **Transcripts**: Submission of official transcripts from all institutions attended to CSUSB Office of Graduate Studies. CSUSB students are not required to submit any CSUSB transcripts. If your transcript is not in English, then you must also send a certified literal English translation of the transcripts along with the official original-language transcripts with proof of degree to: CSUSB Graduate Admissions Office, 5500 University Parkway, San Bernardino, CA 92407
3. **Personal Statement**: Academic motivation and personal qualifications demonstrated through submission of a 200 to 250 word statement of reasons for wishing to pursue the Master of Science in Logistics and E-Commerce at California State University, San Bernardino, and personal qualifications that will contribute to the successful completion of the program.
4. **English Proficiency** for International Students: All international applicants who have not completed three years of full-time study at the secondary or post-secondary level where English was the language of instruction must also achieve an acceptable score, as determined by the Information and Decision Sciences Department, ratified by the College Curriculum Committee, and in alignment with the Office of Graduate Studies requirements on the Test of English as a Foreign Language (TOEFL), the IELTS exam or complete CSUSB's ESL program. The current minimum acceptable TOEFL score is 550/PBT, 213/CBT, 79-80/IBT taken within the past two years; IELTS score of 6.5 taken within the past two years; or complete level 6 of CSUSB's Intensive English Program.
5. **Additional requirement for international students**: International students must also submit a completed affidavit of financial support form.
6. **Resume**: Submission of a current resume
7. **Letters of Recommendation**: Two letters of recommendation are required;
8. **Business Aptitude Requirement**: Applicants for Master of Science in Logistics and E-Commerce must meet the Business Aptitude Requirement by submission of an acceptable score on the Graduate Management Aptitude Test (GMAT) or Graduate Record Exam (GRE). The current acceptable exam scores with a 2.75 GPA: GMAT score of 470 (minimum 10% on GMAT Verbal Ability and Quantitative Ability percentile rankings) or a minimum GRE score of 298 (minimum 10% on GRE Verbal Ability and Quantitative Ability percentile rankings).

   An applicant may request waiver of the GMAT upon proof of completion of graduate work (e.g., J.D., Ph.D., M.D., etc.) from an accredited U.S. college or university, or upon meeting other GMAT waiver criteria as set by the department.

   If GMAT or GRE score is not submitted by the deadline for admission, admission status will be “unclassified post-baccalaureate” unless the GMAT or GRE requirement has been waived.
9. **Conditionally classified status**: Students who meet all entrance requirements may be admitted to the program in a conditionally classified status until the Foundational Course requirements are met. Once students meet the minimum passing level of “B” for each of the two Foundational Courses (ADMIN 6010 & ADMIN 6020) they will be advanced to classified graduate standing in the program. Only fully classified students, however, may enroll in the other 6000-level core courses unless they have written consent from the college graduate director.

Advancement to Candidacy

To be advanced to candidacy, a student must have:

1. Achieved fully classified standing;
2. Completed, at least 20 semester units of applicable graduate-level course work at the university, with a minimum grade point average of 3.0 ("B");
3. Completed an approved graduate program plan in consultation with a department adviser.

Requirements for Graduation

1. A minimum of 30 semester units of acceptable graduate-level work, consistent with the program plan (with a grade point average of 3.0), with at least 21 units completed at the university.
2. Successful completion of the culminating experience project course (SCM 6910) required in the last academic period right before graduation.

Degree Requirements (30 units)

Foundation Courses (6)		
ADMN 6010	Data-Driven Decision Making	3
ADMN 6020	Advanced Managerial Communications	3
Core Courses (21)		
SCM 6070	Managing the Supply Chain	3
SCM 6400	Supply Chain Security and Blockchain	3
IST 6090	Information Systems and Technology Management	3
SCM 6200	Integrated Logistics Management	3
SCM 6300	Warehouse and Distribution Management	3
MKTG 6500	E-Commerce	3
IST 6800	Advanced E-commerce Technologies	3
Culminating Experience (3)		**3**
Total Units		**30**

Culminating Experience (3 units)

Culminating Experience Project (3 Units)

SCM 6910	Culminating Experience Project	3

Bachelor of Arts in Applied Business

Offered online through the College of Extended and Global Education

The fully online Bachelor of Arts in Applied Business degree completion program is designed for students who wish to acquire knowledge, skills and abilities needed to fill the in-demand managerial and entrepreneurial jobs in the region. The primary goal of the new B.A. is to expand opportunities for prospective students in the Inland Empire seeking a bachelor's degree in applied business. The core objectives of this renovation are centered around enhancing the program's overall reach and effectiveness. This includes elevating student success; eliminating pre- requisite bottlenecks; enhancing the overall student learning experience; increasing enrollment and graduation rates; and reaching an underserved, working, adult student population. This program is explicitly tailored for students aspiring to acquire the knowledge, skills, and abilities crucial for securing sought-after managerial positions across various employment sectors.

Admission Requirements

Generally, applicants will qualify for consideration as upper division-transfer admission if they meet all of the following requirements:

- Cumulative grade point average of at least 2.0 in all transferable units attempted.
- In good standing at the last college or university attended; and
- Completed at least sixty (60) transferable semester (90 quarter) units of college level coursework with a grade point average of 2.0 or higher and a grade C or better in each course used to meet the CSU general education requirements in written communication, oral communication, critical thinking, quantitative reasoning, e.g. mathematics.

The Program will be open to upper-division transfer students that have been fully certified by a California Community College. The Program will be delivered in a self-support mode in an online format that consists of only upper division courses. Students can transfer an equivalent of up to 66 semester units.

In addition to the transfer units, all students must complete an additional total of at least 54 semester units at CSUSB to meet the graduation requirement of 120 units.

The Associate in Arts for Transfer (AA-T) and the Associate in Science for Transfer (AS-T) degrees offered at the California Community Colleges (CCC) are designed to provide a California community college student the optimum transfer preparation and a clear admission pathway to the CSU degree majors.

CCC students who earn an Associate Degree for Transfer (AA-T or AS- T) are guaranteed admission with junior standing to a CSU and given priority admission over other transfer applicants when applying to a local CSU campus or non-impacted CSU program. AA-T or AS-T admission applicants are given limited priority consideration based on their eligibility ranking to an impacted campus/program or to campuses/programs that have been deemed similar to the degree completed at the community college. Students who have completed an AA-T/AS-T in a program deemed similar to a CSU major are able to complete remaining requirements for graduation within 60 semester (90 quarter) units. It is the responsibility of the student who has earned an AA-T/AS-T to provide documentation of the degree to the CSU campus.

Degree Requirements (45 units)

Total units for graduation: 120

ACCT 3110	Financial Accounting and Reporting	3
ACCT 3120	Managerial Accounting Analysis	3
ENTR 3000	Entrepreneurship and Innovation	3
FIN 3003	Corporate Finance	3
IST 3000	Technology for Business Management	3
IST 3100	Data Visualization and Analytics	3
MGMT 3370	Business Ethics and Sustainability	3
MGMT 3030	Managing and Leading Organizations	3
MGMT 3470	Fundamentals of Business Law	3
MGMT 3500	Applied Communication	3
MKTG 3050	Marketing Principles	3
MGMT 4950	Managing Strategy in Dynamic Environments	3
MKTG 4800	Sales and Negotiations	3
SCM 4000	Strategic Supply Chain and Logistics Management	3
MKTG 5400	Digital Marketing	3
Total Units		**45**

Bachelor of Arts in Social Sciences

Offered online through the College of Extended and Global Education

This program is designed for students who wish to build a unique BA in Social Sciences program that suits their interests and professional goals OR for those who wish to teach social science subjects in California's schools, middle school through high school.

For those interested in teaching, in addition to this coursework, students will have to pass 2 California pre-credential exams in order to be admitted into a Teaching Credential Program, post-BA: the California Subject Examination for Teachers (CSET), which encompasses knowledge and understanding in Social Science, and also in child adolescent and family studies, economics, geography, history, political science, psychology and sociology and the California Basic Educational Skills Test (CBEST) which is comprised of three subtests: basic math, reading, and writing skills for individuals planning a career in teaching.

Students are required to complete 30 units in the Core discipline of Social Science. Students may choose an alternative Core set of courses or discipline in consultation with an Advisor or the Program Coordinator.

Students choose a Concentration from one of the following disciplines and complete a total of 15 units: child development, economics, geography, history, political science, psychology, or sociology. Included in the core, students will choose take an additional 12-units in one field outside of their Concentration, from child adolescent and family studies, development, economics, geography, history, political science, psychology, or sociology. Students may choose an alternative Concentration set of courses or discipline in consultation with an Advisor or the Program Coordinator.

Students interested in pursuing Teaching are encouraged to see their Social Science advisor early in their program for assistance in choosing courses.

For those with interests outside of teaching in multidisciplinary and individualized programs, this program is also designed for students with a varied set of academic and career interests. Students develop skills in areas that are deemed crucial in a wide array of contemporary professions: Globalism, Multiculturalism, and Intercultural Fluency, Critical Thinking and Problem Solving, Oral and Written Communication, Teamwork and Collaboration, and Professionalism and Work Ethics. For students interested in the multidisciplinary and individualized programs, it is recommended that you first meet with an Academic Advisor in order to develop your program. All multidisciplinary and individualized programs must be approved by the BA in Social Sciences Coordinator.

Additionally, students looking to enhance their career prospects may elect to complete up to 6 units of SSCI 5750 Internship and 6 units of SSCI 5950 Independent Studies, for a total of 3-12 units, with the consent of the Program Coordinator.

Degree Requirements (45 units)

Total units required for graduation: 120

Core requirements (30)		
Twelve units chosen from:		12
SSCI 3000	Global Issues and Perspectives	
or SSCI 3001	Global Issues and Perspectives	
SSCI 3010	Revolutions and Revolutionary Ideas	
or SSCI 3011	Revolutions and Revolutionary Ideas	
SSCI 3020	The 20th Century World	
SSCI 3160	Race and Racism	
SSCI 3250	Perspectives on Gender	
SSCI 3290	Topics in Social Science	
SSCI 3320	Understanding Capitalism	
SSCI 3390	Climate Change	
Six units chosen from:		6
SSCI 3060	Expository Writing for the Social Sciences	
SSCI 5940	Senior Seminar	
Students take an additional 12-units in one field outside of their concentration from the following:		12
Child, Adolescent and Family Studies (CAFS 2240 + 9 upper division units of CD courses)		
Economics (12 upper division units of ECON courses)		
Geography (12 upper division units of GEOG courses)		
History (12 upper division units of HIST courses)		
Political Science (12 upper division units of PSCI courses)		
Psychology (12 upper division units of PSYC courses)		
Sociology (SOC 1000 + 9 upper division units of SOC courses)		
Concentration (15)		
Students must complete 15 units in one of the concentrations listed below or design their own Primary Concentration in consultation with the Program Coordinator:		15
Total Units		**45**

Concentrations

Child, Adolescent and Family Studies Concentration (15 units)

CAFS 2240	Introduction to Child Development	3
Twelve units of upper division Child, Adolescent and Family Studies Coursework.		12
Total Units		**15**

Economics Concentration (15 units)

(Program Code: SSEO)

Economics (15)		
Fifteen units of upper-division Economics coursework		15
Total Units		**15**

Geography Concentration (15 units)

(Program Code: SSGO)

Geography (15)		
Fifteen units of upper-division Geography coursework		15
Total Units		**15**

History Concentration (15 units)

Fifteen units of upper-division History Coursework.		15
Total Units		**15**

Political Science Concentration (15 units)

(Program Code: SSPO)

Political Science (15)		
Fifteen units of upper-division Political Science coursework		15
Total Units		**15**

Psychology Concentration (15 units)

(Program Code: SPSO)

Psychology (15)		
Fifteen units of upper-division Psychology coursework		15
Total Units		**15**

Sociology Concentration (15 units)

(Program Code: SSSO)

Sociology (15)		
SOC 1000	Introduction to Sociology	3
Twelve units of upper-division Sociology coursework		12
Total Units		**15**

Post-Graduate Certificate in Hospitality & Tourism Management

The Post-Graduate Certificate in Hospitality and Tourism Management focuses on the managerial skills needed for today's dynamic and competitive global business environment. Designed for recent graduates or professionals aiming to enhance their leadership abilities and strategic thinking, this program covers key areas such as organizational behavior, marketing, services management, quality assurance, cultivating innovation, and strategic planning. The curriculum combines theoretical knowledge with real-world applications where students gain critical insights into effective management practices and decision-making processes. Concept development projects, case study analysis, and problem-based consulting assignments measure learning outcomes and assessments. The certificate is ideal for those seeking to advance their careers, transition into management roles, or deepen their understanding of business theories, concepts, and operations. The certificate entails 12 semester units.

Certificates may be earned by regularly matriculated or extended learning students and denote successful completion of a prescribed program of study designed to:

1. impart specified professional/vocational/career competencies; or
2. produce mastery of the content of a sub-field of an academic major (discipline); or
3. provide exposure to the range of materials in a traditional or emerging interdisciplinary field.

Certain certificate programs contain 6000-level courses as requirements and/or electives. These 6000-level courses may not be taken by undergraduate students. Candidates must receive two-thirds of their certificate-applicable credit from the university. The transferring of credit or the substitution of courses may occur only after application to the appropriate campus authority.

Certificate Requirements (12 units)

HOSM 5100	Innovation in Hospitality	3
HOSM 6200	Hospitality Services Management	3
HOSM 6300	Contemporary issues in Hospitality and Tourism	3
MKTG 6050	Marketing Management	3
Total Units		**12**

Courses A-Z

Course Numbering System

1-999	Nondegree-applicable credit.
1000-2999	Lower-division courses designed for first and second-year students. Graduate credit is not allowed.
3000-4999	Upper-division courses for third and fourth-year students.
5000-5999	Upper-division courses for third and fourth-year students; graduate credit may be awarded if course is accepted in a specific graduate program.
6000-6999	Courses for postbaccalaureate and graduate students only. May not be taken by undergraduates.
7000-7999	Courses for doctoral candidates only.

Art Education (AAED)

Courses

AAED 2431. Art in the Classroom. Units: 3

Provides experiential art skills and current art education theory and practice for the elementary classroom teacher and for Art students wishing to facilitate art in school or community settings. Students will learn how to design art lessons and art activities based on works of art in accordance with National Visual Arts Standards. Formerly known as ART 2395 / ART 395. One hour lecture and four hours of studio activity per week. Materials fee required.

AAED 2432. From Teaching Artists to Social Practice: A History. Units: 3

This course examines a historical arc of how educators, artists, and activists have utilized the arts to actively engage communities and impact social issues. Course analyzes historical, geographical and gender, racial, and ethnic components of global social processes and problems and the role of art to promote social change. One hour lecture and four hours of studio activity per week. Materials fee required. Formerly offered as ART 2280.

AAED 3431. Art and Human Development. Units: 3

Human development is rooted in dynamic changes in biological, cognitive, and socioemotional processes that interact over time. This course will utilize the perspective of art to explore who we are, how we came to be this way, and where our future will take us. Students learn philosophical, psychological, and methodological perspectives on art and human development with emphasis on the impact of diversity in socio-cultural, communal, linguistic, and other areas in teaching and learning art. One hour lecture and three hours activity each week. Satisfies DI designation. Materials fee required.

AAED 3432. Critical Theories in Art Education. Units: 3

This course examines ways that social and cultural issues inform the construction of meaning in art learning spaces. Students will analyze different critical theories in the field of Art Education and their applications in school, museum and community settings. Students will engage in an interactive process of research, theory, and practice and apply learning through the creation of art. Materials fee required. One hour of lecture and four hours of activity per week.

AAED 4431. Visual Literacy and Media Technology in Art and Design Education. Units: 3

Semester Prerequisite: ART 1140 and ART 2260

This course focuses on the integration of emerging technologies and visual literacy into art and design education for K-12 classroom settings. Using basic browser-based applications to more advanced multimedia production, students will gain experience with creating works of art, interpreting visual culture, and integrating technology into art and design education curriculum. Students will also understand accessibility-related challenges and implement creative solutions. At the end of the course, students will develop a critical understanding of technology in contemporary society to promote visual literacy by finding accessibility-based technology to create artwork and curriculum that engages with visual culture. One hour lecture and three hours studio activity per week. Materials fee required.

AAED 4432. Community-based Art Practicum. Units: 3

Semester Prerequisite: AAED 3431: Art and Human Development and AAED 3432: Art in the Classroom

In this service-learning course, students apply theories of contemporary art and pedagogy in practice to reflect on, design, and implement relevant art activities, a community-based project, or a participatory research project in the arts with a local community partner. Formerly known as ART 4551 / ART 540. May be taken two times for a total of 6 units. One hour lecture and three hours studio activity per week. Materials fee required.

AAED 4433. Leadership and Engagement in the Arts. Units: 3

Prerequisites: AAED 3431 and AAED 3432

This senior level course emphasizes topics critical to arts administration such as organizational theory, budgeting, board development, and fundraising. The course will examine the historical development of arts administration as a professional field, issues that affect contemporary organizations, and how individual skills relate. In this course, students will develop their own professional profiles. Students should have background knowledge about art and human development as well as current art education theory and practice. Formerly ART 4520. Materials fee required.

AAED 4434. Art and Restorative Justice. Units: 3

This course will introduce restorative justice and investigate the theoretical and practical applications of the arts in building awareness and impacting communities. Students will apply learning in the field through a pedagogical or social practice project and will participate in a related Service Learning project. One hour lecture and three hours studio activity per week. Formerly offered as ART 3331. Materials fee required.

AAED 4435. Arts in Corrections Practicum. Units: 3

In this service-learning course, students learn the history of Arts in Corrections in California, analyze the role of art within rehabilitative programming, study the social and cultural impact of mass incarceration, and apply learning through active participation in Arts in Corrections programming. Satisfies DI designation. May be taken two times for a total of 6 units. Materials fee required.

AAED 5431. Curriculum Theories and Methodologies in Art Education. Units: 3

Semester Prerequisite: AAED 3431 and AAED 3432
This course is a synthesis of educational theory and contemporary curricular practice in Art Eduction. Students will gain knowledge of curriculum theories and have experience with curriculum analysis and development. On completion, students will be proficient in curriculum development and instruction with an emphasis on an interdisciplinary approach and cultural responsiveness with diverse student populations. One hour lecture and four hours studio activity per week. Materials fee required.

Accounting (ACCT)

Courses

ACCT 2110. Introductory Accounting I. Units: 3

Fundamentals of recording, analyzing, and communicating financial information including income determination, assets and liability relationships and preparation of financial statements. Previously offered as ACCT 211.

ACCT 2120. Introductory Accounting II. Units: 3

Semester Prerequisite: ACCT 2110. Quarter Prerequisite: ACCT 211
Continuation of Introductory Accounting I with emphasis on Analysis of accounting methods providing data for optimal managerial decisions, implementation and control. Topics include cost allocation; cost, volume and price relationships; product cost accounting and control systems; operations and capital budgeting, and related behavioral, reporting and information processing aspects. Previously offered as ACCT 212.

ACCT 3110. Financial Accounting and Reporting. Units: 3

Fundamentals of recording, analyzing, and communicating financial data to inform various corporate stakeholders. Topics include income determination, assets, liability and stockholder's equity relationships, preparation of financial statements and corporate legal issues related to GAAP reporting.

ACCT 3120. Managerial Accounting Analysis. Units: 3

Fundamentals of processing and analyzing accounting data for managers to perform their managerial functions of planning, control and decision-making. Topics include costing methods, cost volume and profit analysis, incremental analysis, budgeting and variance analysis.

ACCT 3150. Accounting Information Systems and Business Ethics. Units: 3

Introduction to the concepts, objectives and importance of properly designed accounting information systems and professional ethics. Extensive study of internal controls including systems documentation. Materials fee required. Previously offered as ACCT 315.

ACCT 3720. Intermediate Accounting I. Units: 3

Semester Prerequisite: ACCT 2110 and ACCT 2120. Quarter Prerequisite: ACCT 211 and ACCT 212
First of a two-course sequence covering an in-depth study of financial accounting topics, including accounting valuation and reporting practices. Three major areas examined include financial accounting theory, current and noncurrent assets, and current and noncurrent liabilities. Formerly ACCT 372.

ACCT 3730. Intermediate Accounting II. Units: 3

Semester Prerequisite: ACCT 3720. Quarter Prerequisite: ACCT 372
Continuation of ACCT 3720 with emphasis on financial accounting areas including stockholders equity, dilutive securities, investments, income measurement issues, and the preparation and analysis of financial statements. Formerly ACCT 373.

ACCT 5200. Forensic Accounting I. Units: 3

Semester Prerequisite: ACCT 3730
This course provides an overview of Forensic Accounting knowledge, skills, and responsibilities needed for career development in the field. It also covers the ethical and legal environment in which professionals practice. Topics include Fraud, Bankruptcy, Digital Forensics, Family Law, Economic Damages and Business Valuations.

ACCT 5260. Introduction to Taxation. Units: 3

Semester Prerequisite: ACCT 2110 and junior standing
Introduction to the basic concepts of federal income taxation. Includes history and objectives of the tax, along with the treatment of various types of entities, types of income, types of deductions and types of credits. Emphasis is on the individual as a taxpayer.

ACCT 5300. Seminar in Taxation. Units: 3

An intensive study of some phase of taxation to be developed by the instructor. Formerly ACCT 6300.

ACCT 5360. Corporate and Partnership Taxation. Units: 3

Semester Prerequisite: ACCT 4260
The basic concepts and basic tax forms of the federal income taxation of corporations and partnerships. Includes an introduction to tax research. Formerly offered as ACCT 536.

ACCT 5370. Management Accounting and Ethics in Business. Units: 3

Overview of techniques to facilitate business decision-making and professional ethics in business for performance improvement. Models include break-even analysis, differential costing, product cost pricing analyses, capital budgeting and investment analysis techniques. The role of budgeting in management planning and control and an examination of cost and revenue variances. Transfer pricing, management compensation and performance evaluation are reviewed in both domestic and international situations.

ACCT 5390. Advanced Accounting. Units: 3

Semester Prerequisite: ACCT 3730 with a "C" or better grade. Quarter Prerequisite: ACCT 373 with a "C" or better grade

Topics include accounting and reporting for mergers and acquisitions, accounting for consolidation, accounting for partnerships, foreign currency transaction and translation, and accounting for segment reporting. Formerly offered as ACCT 539.

ACCT 5400. Financial Statement Auditing. Units: 3

Semester Prerequisite: ACCT 3150 and ACCT 3730

Theory and function of the auditor, viewed from the perspective of public accounting. Topics will include standard audit reports, assessing audit risk, auditors' legal liabilities, tests of controls, and audit evidence. Generally accepted auditing standards will be critically examined. Materials fee required.

ACCT 5410. EDP Auditing and Control. Units: 3

This course builds on the knowledge base from Introductory Auditing, not only to provide students with an in-depth understanding of professional standards, but also to prepare students for the responsibilities and challenges faced as an auditor in charge. The course assumes a base line knowledge of internal and external audit, and will also cover advanced topics concerning complex auditing judgments. Materials fee required.

ACCT 5440. Accounting Law, Ethics and Institutions. Units: 3

Semester Prerequisite: MGMT 2300 or equivalent. Quarter Prerequisite: MGMT 230 or equivalent

Advanced accounting law topics, ethical standards, and institutions for professional accountants. Emphasis on legal problems encountered in the public accounting profession, including an examination of the ethical standards and political and regulatory institutions that affect the practice of public accounting. Formerly offered as ACCT 544.

ACCT 5470. Advanced Cost Accounting. Units: 3

Semester Prerequisite: ACCT 3470. Quarter Prerequisite: ACCT 347 or equivalent

Product and service costing with attention to analysis of overhead and multiple allocation techniques. Topics include joint costs, byproducts, spoilage, rework and scrap. Alternative costing systems including operations costing and process costing. Valuation of inventory for decision-making purposes. Procedures for just-in-time inventory management are included. Formerly offered as ACCT 547.

ACCT 5560. Estates and Gifts, Ethics and other Specialized Taxation Topics. Units: 3

Semester Prerequisite: ACCT 4260. Quarter Prerequisite: ACCT 426

Professional ethics in tax practices and taxation topics not covered in depth in ACCT 4260 and 5360, including gift and estate tax, income taxation of trusts and estates, tax administration and practice, working with tax law, advanced individual income tax topics, and other special topics. Formerly offered as ACCT 556.

ACCT 5680. Accounting for Government and Not-for-Profit Organizations. Units: 3

Semester Prerequisite: ACCT 2110. Quarter Prerequisite: ACCT 211

Provides students an opportunity to study the specialized the GASB accounting principles applicable to state and local governments. It affords learners an opportunity to acquire proficiency with the FASB financial reporting standards applicable to a variety of tax exempt non-profit organizations encountered in practice with an emphasis on fair value accounting and the basic principles used to record of assets, liabilities, equity, revenues, and expenditures. The course also covers the analysis and interpretation of government financial statements. Previously offered as ACCT 468.

ACCT 5753. Accounting Internship. Units: 3

Supervised work and study in Accounting functions of private or public organizations. May be repeated once for credit. A total of six units of ACCT 5753 (Accounting Internship) course may be applied toward graduation. May be taken two times for six units. Graded credit/no credit. Formerly ACCT 575.

ACCT 5755. Internship. Unit: 1

Semester Prerequisite: Consent of college internship coordinator. Quarter Prerequisite: senior standing preferred; consent of instructor and the departments internship coordinator

Supervised work and study in private or public organizations. May be repeated for credit. A total of six units of Jack H. Brown College of Business and Public Administration 5753 or 5755 courses may be applied toward graduation. Graded credit/no credit.

ACCT 5915. Seminar in Accounting. Unit: 1

An intensive study of some phase of accounting to be developed by the instructor. May be repeated for credit as topics change.

ACCT 5930. Seminar in Accounting. Units: 3

An intensive study of some phase of accounting to be developed by the instructor. May be repeated for credit as topics change. Formerly offered as ACCT 590.

ACCT 5951. Independent Study. Unit: 1

Semester Prerequisite: Junior status, or graduate status

Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Course is cross-listed across different departments within the college.

ACCT 5952. Independent Study. Units: 2

Semester Prerequisite: Junior status, or graduate status

Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Formerly offered as 595B. Course is cross-listed across different departments within the college.

ACCT 5953. Independent Study. Units: 3

Semester Prerequisite: Junior status, or graduate status
Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Formerly offered as 595D. Course is cross-listed across different departments within the college.

ACCT 5955. Independent Study. Unit: 1

Semester Prerequisite: Junior status, or graduate status
Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Course is cross-listed across different departments within the college.

ACCT 5980. CPA Preparation & Practice. Units: 0

Students will practice mock CPA questions and understand CPA exam structure and registration process. Graded CR/NC. May be taken four times.

ACCT 6060. Accounting for Managerial Decision-Making. Units: 3

Semester Prerequisite: ADMN 9992
How to use financial information on financial statements or other statements provided by accounting professionals for business decisions such as firm valuations, investment decisions, managerial decisions and contracting will be discussed in-depth. Relevant practical cases will be heavily used for students to gain competence in using financial information to support business decisions. Formerly ACCT 606.

ACCT 6100. Financial Accounting from the User Perspective with Data Analytics in Accounting. Units: 3

Semester Prerequisite: MBA Students ACCT 6060, MSA Students advance to candidacy or department approval
An in-depth study of financial accounting from the user perspective will be conducted. Reporting/ disclosing financial information, use of financial information with other relevant information for economic decisions, accounting information manipulations, and data analytics in accounting are the major topics to be discussed in this course. Formerly ACCT 610.

ACCT 6150. Controllership and Professional Ethics. Units: 3

Semester Prerequisite: MBA Students: ACCT 6060; MSA Students: advancement to candidacy or department approval
Designing and implementing control systems used to plan and control the firm's performance through case analysis. Topics of cases include Ethics, Cost Behavior Analysis, Balanced Scorecard, Activity Based Management, Target Costing, Transfer Pricing, Quality Cost, Environmental Cost and Performance Evaluation.

ACCT 6200. Seminar in Advanced Auditing, Accounting Information Systems and Accounting Data Analytics. Units: 3

Semester Prerequisite: Advancement to candidacy or department approval
The aim of the current coursework is to prepare students for the CPA exam. The topics covered are based on multiple sources - Principles of Auditing textbook, Becker CPA review textbook and Auditing & Fraud Case Studies (online and offline). The topics are carefully selected to give students a complete overview of the CPA exam requirements. Formerly ACCT 620.

ACCT 6250. Advanced Internal Auditing. Units: 3

Semester Prerequisite: ACCT 6100 and ACCT 6150
Internal Auditing is about evaluation of the organization's internal controls, accounting processes and corporate governance. Critical functions of Internal Auditors involve ensuring timely and accurate financial reporting, collection and processing of data helping operational efficiency and data integrity, etc. This course focuses on learning critical skillsets to be successful as an Internal Auditor. Certification available for this field of accounting is the CIA (Certified Internal Auditor).

ACCT 6420. International Accounting. Units: 3

Semester Prerequisite: Advancement to candidacy or department approval. Quarter Prerequisite: Consent of MSA director or department chair
Current developments in international accounting. Explains similarities and differences among US GAAP and international accounting standards. Discusses social, economic, and political influences on comparative accounting theories and practices. Formerly ACCT 642.

ACCT 6500. Advanced Financial Reporting Seminar. Units: 3

Semester Prerequisite: Advancement to candidacy or department approval
Provides update on accounting and auditing standards, focusing on regulations applicable to complex financial transactions. Includes case studies and an emphasis on professional research to address questions pertaining to professional practice. Successful completion satisfies the graduate writing requirement.

ACCT 6755. Internship. Unit: 1

Semester Prerequisite: Consent of college internship coordinator. Quarter Prerequisite: senior standing preferred; consent of instructor and the departments internship coordinator
Supervised work and study in private or public organizations. May be repeated for credit. A total of six units of Jack H. Brown College of Business and Public Administration 5753 or 5755 courses may be applied toward graduation. Graded credit/no credit.

ACCT 6960. MSA Project. Units: 3

Semester Prerequisite: Advancement to candidacy or department approval. Quarter Prerequisite: Consent of MSA director or department chair
Students demonstrate their readiness to enter the accounting profession by completing a series of projects that require the application of knowledge and skills learned in the MSA program. Graded credit/no credit. Formerly ACCT 697.

ACCT 6970. MSA Comprehensive Examination. Units: 3

Semester Prerequisite: Advancement to candidacy, approval of MSA Coordinator and/or Department Chair, and in good academic standing
This course will prepare students to take the comprehensive exam for the Master of Science in Accountancy (Online). The comprehensive examination will be taken at the end of the course. Weekly study guidelines will be offered. The comprehensive examination will consist of an assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter in the concentration. Must be taken in the final semester of coursework. May be taken two times for six units with the approval of the MSA Coordinator and/or Department Chair.

ACCT 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ACCT 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ACCT 6992. Continuous Enrollment for Graduate Candidacy Standing. Units: 2

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ACCT 6993. Continuous Enrollment for Graduate Candidacy Standing. Units: 3

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ACCT 6994. Continuous Enrollment for Graduate Candidacy Standing. Units: 4

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ACCT 6995. Continuous Enrollment for Graduate Candidacy Standing. Units: 5

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ACCT 6996. Continuous Enrollment for Graduate Candidacy Standing. Units: 6

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

Administration (ADMN)

Courses

ADMN 1001. Leadership for Global Challenges: Exploring the Entrepreneurial Mindset. Units: 3

This experiential, discussion-based course explores the concept of entrepreneurship and how the entrepreneurial lens can be employed to help individuals understand, interact and change the world around them by solving pressing personal, social and global problems. Students will learn the skills and abilities consistent with an entrepreneurial mindset to develop as a whole person by better understanding human behavior, creative endeavors, social relationships, one's relationship to the environment and how stress and failure can be managed. Satisfies Big Ideas that Change the World: Exploring Ideas, Innovations, & Discoveries pathway.

ADMN 1002. Leadership for Global Challenges: Citizenship in a Sustainable World. Units: 3

Appreciate diverse regional cultures in the world as systems of social, human and ecological environments, with specific leadership value theories and practice perspectives. Understanding of self's role as a decision maker in a wide variety of career contexts using the lens of responsible management with transcultural citizenship. Focus on how our decisions impact sustainability of organizations and society, and how a sustainability mindset can enhance personal success and transpersonal growth. Satisfies G designation and Environmental Sustainability pathway.

ADMN 1003. Leadership for Global Challenges: Exploring the Digital Mindset. Units: 3

The focus of this course is to develop student digital literacy, thus transforming them into savvy, evidence driven, lifelong, and secure and informed global digital citizen. The learning process uses an interdisciplinary story driven digital mindset lens, where the student learns about and reflects on how individuals and organizations leverage digital media and other technologies to create value. Students create their own stories on how the course has prepared them for a future world where humans and machines collaborate in an automated and knowledge based society. Satisfies Digital Life pathway.

ADMN 1500. Introduction to Administration. Unit: 1

Introduction to the administrative process. Strategies to achieve success in business and public careers. Includes the development of administrative theories and practices and provides an overview of the functional areas of business and public administration. Formerly offered as MGMT 100.

ADMN 2100. Applied Business Statistics. Units: 3

An introduction to statistical reasoning and application of primary statistical techniques used in solving managerial problems. Covers both descriptive and inferential statistics. Formerly offered as ADMN 210. Materials fee required.

ADMN 4900. Administration Capstone. Unit: 1

Semester Prerequisite: Senior standing, and completion of the lower and upper-division administration core courses. One upper-division core may be taken concurrently. Course prerequisites include: ADMN 1500, ECON 2201, ECON 2202, MGMT 2300, FIN 3001, IST 3110, MGMT 3020, MKTG 3050, PA 3150, SCM 3040, and MGMT 3900

This capstone course integrates knowledge from all administration disciplines (such as accounting, entrepreneurship, finance, human resources, information and decision sciences, management, marketing, public administration, and supply chain management). Students will apply this knowledge to work in teams to complete a project in administration.

ADMN 5753. Internship. Units: 3

Semester Prerequisite: Consent of college internship coordinator. Quarter Prerequisite: senior standing preferred; consent of instructor and the departments internship coordinator

Supervised work and study in private or public organizations. May be repeated for credit. A total of six units of Jack H. Brown College of Business and Public Administration 5753 or 5755 courses may be applied toward graduation. Graded credit/no credit. Formerly offered as ADMN 575.

ADMN 5755. Internship. Unit: 1

Semester Prerequisite: Consent of college internship coordinator. Quarter Prerequisite: senior standing preferred; consent of instructor and the departments internship coordinator

Supervised work and study in private or public organizations. May be repeated for credit. A total of six units of Jack H. Brown College of Business and Public Administration 5753 or 5755 courses may be applied toward graduation. Graded credit/no credit.

ADMN 5910. Seminar in Administration. Unit: 1

Intensive study of some phase of administration to be developed by instructor. May be repeated for credit as topics change. Formerly offered as ADMN 590B.

ADMN 5915. Seminar in Administration. Unit: 1

Intensive study of some phase of administration to be developed by instructor. May be repeated for credit as topics change.

ADMN 5920. Seminar in Administration. Units: 2

Intensive study of some phase of administration to be developed by instructor. May be repeated for credit as topics change. Formerly offered as ADMN 590C.

ADMN 5930. Seminar in Administration. Units: 3

Intensive study of some phase of administration to be developed by instructor. May be repeated for credit as topics change. Formerly offered as ADMN 590D.

ADMN 5951. Independent Study. Unit: 1

Semester Prerequisite: Junior status, or graduate status

Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Course is cross-listed across different departments within the college.

ADMN 5952. Independent Study. Units: 2

Semester Prerequisite: Junior status, or graduate status

Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Formerly offered as 595B. Course is cross-listed across different departments within the college.

ADMN 5953. Independent Study. Units: 3

Semester Prerequisite: Junior status, or graduate status

Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Formerly offered as 595D. Course is cross-listed across different departments within the college.

ADMN 5955. Independent Study. Unit: 1

Semester Prerequisite: Junior status, or graduate status

Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Course is cross-listed across different departments within the college.

ADMN 6010. Data-Driven Decision Making. Units: 3

Advanced problem-solving qualitative and quantitative techniques to find, frame and solve difficult issues. Formerly offered as ADMN 601.

ADMN 6020. Advanced Managerial Communications. Units: 3

Introduces students to the principles of communication strategy and persuasion, with a focus on written and oral presentation assignments to increase student proficiency in managerial communication. Satisfies the graduate writing requirement. Formerly offered as ADMN 602.

ADMN 6753. Internship. Units: 3

Semester Prerequisite: consent of instructor and department's internship coordinator. Quarter Prerequisite: consent of instructor and department's internship coordinator

Supervised work and study in private or public organizations. May be repeated for credit. A total of six units of Jack H. Brown College of Business and Public Administration 6753 or 6755 courses may be applied toward graduation. Graded credit/no credit. Formerly offered as ADMN 675.

ADMN 6755. Internship. Unit: 1

Semester Prerequisite: Consent of college internship coordinator. Quarter Prerequisite: senior standing preferred; consent of instructor and the departments internship coordinator

Supervised work and study in private or public organizations. May be repeated for credit. A total of six units of Jack H. Brown College of Business and Public Administration 5753 or 5755 courses may be applied toward graduation. Graded credit/no credit.

ADMN 6901. Policy Management in Seoul: Seoul Case Study Program. Units: 3

This course provides students with the analysis of major issues in management of global cities, specifically Seoul Metropolitan Government, the Republic of Korea (South Korea). Topics include demographics, culture, social values, business practices, and urban development and civil service system of the Republic of Korea (South Korea). The course consists of (a) pre-visit in-class lectures and (b) visit Seoul Metropolitan Government, the Republic of Korea (lectures and field trips).

ADMN 6910. Advanced Topics in Administration. Unit: 1

Intensive study of some advanced phase of administration to be developed by instructor. May be repeated for credit as topics change.

ADMN 6915. Advanced Topics in Administration. Unit: 1

Intensive study of some advanced phase of administration to be developed by instructor. May be repeated for credit as topics change.

ADMN 6920. Advanced Topics in Administration. Units: 2

Intensive study of some advanced phase of administration to be developed by instructor. May be repeated for credit as topics change. Formerly offered as ADMN 690B.

ADMN 6930. Advanced Topics in Administration. Units: 3

Intensive study of some advanced phase of administration to be developed by instructor. May be repeated for credit as topics change. Formerly offered as ADMN 690C.

ADMN 6951. Directed Graduate Studies. Unit: 1

Graduate-level independent study for students in Interdisciplinary Master of Arts programs; to be conducted under direct supervision of a faculty member from the students committee and, if an interdisciplinary studies major, with approval of the committee on graduate education and consent of the Dean of Graduate Studies. Formerly offered as ADMN 695A.

ADMN 6952. Directed Graduate Studies. Units: 2

Graduate-level independent study for students in Interdisciplinary Master of Arts programs; to be conducted under direct supervision of a faculty member from the students committee and, if an interdisciplinary studies major, with approval of the committee on graduate education and consent of the Dean of Graduate Studies. Formerly offered as ADMN 695B.

ADMN 6953. Directed Graduate Studies. Units: 3

Graduate-level independent study for students in Interdisciplinary Master of Arts programs; to be conducted under direct supervision of a faculty member from the students committee and, if an interdisciplinary studies major, with approval of the committee on graduate education and consent of the Dean of Graduate Studies. Formerly offered as ADMN 695C.

ADMN 6960. Industrial and Engineering Management. Units: 3

Semester Prerequisite: advanced to candidacy

This capstone course serves as the final academic requirement for students in the Industrial and Engineering Management program. Students will integrate knowledge and skills acquired throughout the curriculum to solve real-world problems using industry-standard practices in engineering and management. This course is limited to students who have advanced to candidacy.

ADMN 6980. MBA Portfolio. Units: 0

Semester Prerequisite: Completion of 24 units in the program. Quarter Prerequisite: completion of 32 units in the program

Preparation and submission of a portfolio containing assignments representing successful work in the MBA program, accompanied by a reflective essay showing how the portfolio demonstrates the accomplishment of the goals of the program. Formerly offered as ADMN 995.

ADMN 6981. Comprehensive Assessment. Units: 0

Semester Prerequisite: advancement to candidacy, approval of department, completion of core course work in the master program and in good academic standing. Quarter Prerequisite: advancement to candidacy, approval of department, completion of course work in the masters program and in good academic standing

An assessment of the students ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter in business. May be taken any fall, winter or spring term after advancement to candidacy. Formerly offered as ADMN 999.

ADMN 6983. Culminating Business Administration Project. Units: 3

Culminating experience course develops the future manager's business analysis skills, integrating knowledge from the MBA Foundation and Essentials courses. Under the supervision of an instructor, students will develop a comprehensive, written assessment that addresses a real, substantive business problem.

ADMN 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ADMN 6992. Continuous Enrollment for Graduate Candidacy Standing. Units: 2

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ADMN 6993. Continuous Enrollment for Graduate Candidacy Standing. Units: 3

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ADMN 9992. Graduate Classified. Units: 0

Students who are now in Classified status. Formerly ADMN 992.

ADMN 9993. Advancement to Candidacy. Units: 0

For students who have advanced to candidacy.

Art History (AH)

Courses

AH 1103. Art History Methodologies 1. Units: 3

Introduction to methodologies in art history and research: how to navigate archives, collections, libraries, an art bibliographies to obtain peer-reviewed art historical scholarship. Engage in critical reading and analysis, and learn practices of writing for art history. Broad survey of examples from the fine arts and design. Materials fee required. Satisfies DI, G, & WI designations.

AH 1104. Art History Methodologies 2. Units: 3

Survey of historical traditions, mythologies, and exhibitions types in the fine arts and design. Focus on understanding methodologies of art history and research into specific themes of art in the global context. Broad range of fine arts and design examples used. Materials fee required. Satisfies DI, G, & WI designations.

AH 1120. Globalization, Art, and Visual Culture. Units: 3

Introduces definitions and concepts for the term globalization through a critical inquiry into visual culture. Providing an overview of historical world art and contemporary global art, and an update on the conditions of globalization in the 21st century, this course will reveal how global issues, global communities, and digital forms of communication are more and more constructed through visual expressions. Satisfies DI, G, & WI designations. Materials fee required.

AH 1221. Art History Foundations 1. Units: 3

Introduction and survey of periodizations such as premodern, modernity/modernisms, postmodernisms, digimodernisms, and beyond as a defining time-categorization of art history in the globalized field of art and design. Exploration of terms and meanings of art historical periodization is conducted in different cultural contexts. Broad range of fine arts and design examples explored. Materials fee required. Satisfies DI, G, & WI designations.

AH 1222. Art History Foundations 2. Units: 3

Introduction to and survey of discourses and theories used in art historical interpretation and analyses, including but not limited to studies in viewing and reception of art, material and immaterial conceptions of art and philosophy, colonial/postcolonial discourses for artistic heritages, and the different theories on exhibiting art in museums and in galleries. Broad range of fine arts and design examples explored. Materials fee required. Satisfies DI, G, & WI designations.

AH 3210. Visualizing Gender, Performing Identity. Units: 3

This course examines the ways in which gender, ethnicity, race, sexuality, and disability are visual forms of identification, in addition to how identities are performed through stylized repetitions accepted as social norms across diverse cultural communities. From prehistory forward, visual forms for expressing gender have been a part of every culture globally since the earliest traceable representations of the feminine or masculine, heteronormative, queer, raced, and disabled identifications. Materials fee required. Satisfies GE C4/UD-3, DI, G, W designations.

AH 3250. Topics and Themes of Art History and Exhibitions. Units: 3

Concentrated studies in art historical or exhibitionary topics and themes that could include historical movements, periods, image programs, patronages, artists, groups of artists, and events related to art, design and/or exhibitions in the global context. Topical studies include but are not limited to social or political studies of a particular focus in relation to a specific culture or region. May be repeated twice for a total of six units as topics change. Materials fee required. Satisfies DI, G, & WI designations.

AH 3310. Asian Contemporary Art. Units: 3

Exploration of aesthetic experiences of the contemporary visual arts of Asian cultures such as China, India, Korea, and Japan. Examination of Asian contemporary culture through the study of diverse Asian artistic practices. Satisfies GE C4/UD-3, DI, G, WI destinations, and Global Connections pathway.

AH 3350. Contemporary Art and Culture of the Americas. Units: 3

Exploration of arts of the Americas since the mid 20th century through the present. Study of aesthetic experiences of contemporary arts and cultures across the hemisphere. Focus on colonial/decolonial discourses in the region that goes from Canada to Tierra del Fuego and that includes the multilingual Caribbean, Latinx cultures in the United States and their diasporas. Examination of contemporary culture in the Americas through the study of diverse artistic practices and discourses. Satisfies GE C4/UD-3, DI, G, WI destinations, and Global Connections pathway.

AH 4250. Art History Seminar. Units: 3

Concentrated studies in art and design history and/or exhibition discourses, theories, methodologies, philosophies, traditions, mythologies, and cultural/aesthetic approaches as they relate to artists and artworks, designers and works of design. This discursive approach to the subjects of art, design, and exhibitions engages in the literature and structures of art historical knowledge. May be taken two times for six units, as topics change. Satisfies DI, G, and WI designations. Materials fee required.

AH 5250. Art History Capstone Research Seminar. Units: 3

Seminar course, developing subject matter, discursive context, research methods, bibliography, and photographic images for final Art History project. Satisfies DI, G, and WI designations. Materials fee required.

AH 5270. Art History Capstone Research Methodology. Units: 3

Methodology course, specifically focusing on further development of research methods, writing methodology, refining bibliography and photographic images for final Art History project. May be taken three times for a total of nine units. Materials fee required.

AH 5290. Art History Conference. Units: 3

The culminating project for undergraduate art history. Preparation of paper and presentation for the annual on-campus Art History Student Conference, for completion of the BA in Art History. Coursework will also be prepared for publication. Satisfies DI, G, and WI designations. Materials fee required.

AH 5753. Internship in Art History. Units: 3

Supervised learning on-site with a museum, gallery, arts organization, local community partner, or other relevant project in the field. Requires 90 hours at the internship site during the term. May be taken two times for 6 units. Graded Credit/No Credit.

AH 5953. Independent Study. Units: 3

Academic, art historical or community-based research in the arts conducted under the direction of a faculty member. Enrollment is dependent on the consent of instructor and departmental approval of a written proposal of a project submitted by the student in advance of course. May be three time for nine units.

Anthropology (ANTH)

Courses

ANTH 1001. Humans, Apes, and Monkeys: Introduction to Biological Anthropology. Units: 3

Covers human biocultural evolution through time. Includes current evolutionary theory as applied to human biological diversity and the race concept, the archaeological record of early humans, our evolutionary relationship to non-human primates, and the fossil and genetic evidence for human evolution. Satisfies GE B2/5B, DI, G designations, and Big Ideas that Change the World: Exploring Ideas, Innovations, Discoveries pathway.

ANTH 1002. Understanding Cultural Diversity. Units: 3

A comparative study of human experience with emphasis on developing an anthropological perspective. Specific topics may include politics, economy, diet, spirituality, identity, the life course, social hierarchies, family, arts, and war. Satisfies GE D3/4, DI, G designations, and Global Connections pathway.

ANTH 1400. World History to c. 1500. Units: 3

A thematic introduction to world history from prehistoric times to c1500. Examines the development of and interactions between peoples, states, civilizations, and empires in Africa, Asia, Europe, Oceania, and the Americas. Focuses on patterns of economic and cultural development, religious ideas, the rise and fall of empires, and global interconnections. Satisfies GE D3/4, DI, G designations.

ANTH 3005R. North American Archaeology. Units: 3

Archaeology of North America from earliest times to contact with Old World societies. Formerly known as ANTH 305.

ANTH 3006R. Mesoamerican Archaeology. Units: 3

Examines the archaeology of Native American societies of Mexico and Central America from the time of the first human occupants of those regions to the Spanish Conquest beginning in the early 16th century. Formerly known as ANTH 306.

ANTH 3007R. Andean Archaeology. Units: 3

Examines the archaeology of Native American societies of Andean South America from the time of the first human occupants of that region to the Spanish Conquest beginning in the early 16th century. Formerly known as ANTH 307.

ANTH 3008. Indigenous Archaeology. Units: 3

A review of the discipline of Indigenous Archaeology. Includes contemporary case studies to illustrate theories and methods used in the field of Indigenous Archaeology.

ANTH 3012. Historical Archaeology. Units: 3

Use of archaeological methods to study historic peoples. Historical and archaeological methods and their results. Focus will be primarily on North America from European entry to modern times. Formerly known as ANTH 312/HIST 312. Offered as ANTH 3012 and HIST 3012, students may not receive credit for both.

ANTH 3014R. Archaeology of California. Units: 3

Examines the archaeology of Native American peoples of California from the time of its first human occupants to contact with Europeans beginning in the 16th century. Formerly known as ANTH 314.

ANTH 3015R. Archaeology of the Southwest. Units: 3

Examines Native American peoples of the American Southwest from the time of its first human occupants to contact with European societies. Formerly known as ANTH 315.

ANTH 3019L. Experimental Archaeology and Ethnoarchaeology. Units: 4

Semester Prerequisite: Consent of instructor. Quarter Prerequisite: Consent of instructor

Experimental and observational techniques important to the archaeologist. This course has a practical/laboratory component that will assist students in understanding aspects of ancient technology and the formation of the archaeological record. Three hours of lecture and three hours of laboratory per week. Formerly known as ANTH 319.

ANTH 3180. Introduction to Cultural Resource Management. Units: 3

General overview of the field of Cultural Resource Management in Museum Studies, Archaeology, and Public History. Also offered as HIST 3180. Students may not receive credit for both. Formerly known as ANTH 318.

ANTH 3201T. The Archaeology of the Senses. Units: 3

A global perspective on archaeological research relating to the human senses. Topics may include music, oration, dance, art, food, smell, pain, and trance states. Students will read theoretical works and case study examples taking phenomenological and sensorial perspectives on a wide variety of archaeological contexts, from the music of ancient China to the sacrificial rituals of prehispanic Mesoamerica. Formerly known as ANTH 3201.

ANTH 3360. Ancient Egyptian Archaeology. Units: 3

Examination of ancient Egyptian archaeological contexts that reveal specific themes about their people, history, society, and religion. Incorporates archaeological theory to interpret contexts. Incorporates the history of excavation and removal of objects from Egypt. Offered as ANTH 3360 and HIST 3360. Students may not receive credit for both. Formerly known as HIST 336 and ANTH 336.

ANTH 3500. The Race Concept in Biological Anthropology. Units: 3

An inquiry into past and present interpretations of the significance of human biological and genetic differences within the framework of biology and evolutionary theory. Satisfies GE D4/UD-4, DI designation, and Big Ideas that Change the World: Exploring Ideas, Innovations, Discoveries pathway.

ANTH 3501. Human Origins. Units: 3

Semester Prerequisite: ANTH 1001 or equivalent

Prerequisites: ANTH 1001 or equivalent

Fossil, archaeological, and other evidence for human origins examined within its geological and environmental contexts. Discussion of theories that attempt to explain how we became human. Formerly known as ANTH 326.

ANTH 3503. Forensic Anthropology and Crime. Units: 3

Techniques of biological anthropology as applied to the investigation of crime. Formerly known as ANTH 328.

ANTH 3600. The History of Anthropological Thought. Units: 3

Semester Prerequisite: ANTH 1002

Examination of major theoretical trends and debates that have shaped the discipline of anthropology. Satisfies G designation.

ANTH 3601. Case Studies in Linguistic Anthropology. Units: 3

Introduction to the basic concepts, approaches, and perspectives of linguistic anthropology, including the ways that language reflects and shapes thought, culture, and relations of power. Formerly known as ANTH 388.

ANTH 3603. Gendered Worlds: Power, Difference, and & In/equality. Units: 3

Examines the ways that gender organizes social life in a comparative, cross-cultural perspective. Considers the relationship between sex and gender; the formation of gender identities, roles, and ideologies; the gendered division of labor; inequality, power, and human rights; and the ways that gendered experiences are related to nation, sexuality, race, and class differences across the globe. Satisfies GE D4/UD-4, DI, G designations, and Diversity and Social Justice, World Cultures and Diversity pathways.

ANTH 3604. Anthropology and Film. Units: 3

Close examination of feature film from an anthropological perspective, including both domestic and international cinema. Topics may include: the representation of particular societies, places, and topics through film; the cinema-going experience; and regional film industries. Formerly known as Anth 334.

ANTH 3605. Anthropology of Health. Units: 3

An introduction to medical anthropology, which focuses on the interaction of culture, society, and biology. Considers the social dimensions of health and illness, and the diverse ways in which healing is pursued. Includes a critical examination of biomedicine. Formerly known as ANTH 340.

ANTH 3606. Indigenous Politics. Units: 3

Analysis of contemporary and historical aspects of issues relating to indigenous peoples. Topics include social movements, genocide, feminism, resource disputes, cultural identity formation and appropriation, bilingual education, and development. Formerly known as ANTH 346.

ANTH 3607. Environmental Anthropology. Units: 3

Examines the social, political, and material dimensions of the environment. Explores a range of topics, including culture, power, sustainability, resource economies, human and non-human relations, and the links between race, class, gender and the environment. Formerly known as ANTH 342.

ANTH 3608. Humans, Animals, and Nature. Units: 3

Examines animal classifications and representations in cosmologies and ideologies from the perspective of local societies and religions across cultures and time. Formerly known as ANTH 347.

ANTH 3610. Globalization in Crisis. Units: 3

A critical examination of globalization through an anthropological lens focusing on the relationship between global formations and everyday lived experiences. Topics addressed include development, racial capitalism, migration, consumer culture, and borderlands. Formerly known as ANTH 341. Applied to Global Connections GE pathway.

ANTH 3701R. Cultures of Mexico and Central America. Units: 3

Course explores the native cultures of Mexico and Central America and the cultural region known as "Mesoamerica". Taking a historical approach, the class will examine the archaeological record of pre-Hispanic Mesoamerica, the colonial period, and modern indigenous groups. Formerly known as ANTH 354.

ANTH 3702R. Anthropology of South America. Units: 3

Uses ethnographic readings, films, and/or fiction to thematically explore the intersections of culture, politics, and the economy. Emphasizes the effects of colonization, the construction of nationalism and national identities, race/ethnic and gender inequalities, urbanization, and contemporary issues facing indigenous peoples. Formerly known as ANTH 356.

ANTH 3703R. Anthropology of Asia: Cultures, Communities, and Migration. Units: 3

Asian voices and perspectives in the study of diverse Asian cultures. Topics may include pre-colonial, colonial, and postcolonial histories and regional considerations of gender, culture, and religion in areas as different as South Asia, Southeast Asia, East Asia, and/or Asian Diaspora and Asian Americans. Satisfies GE D4/UD-4, DI, G designations.

ANTH 3704R. Anthropology of the Middle East. Units: 3

Uses anthropological readings, documentary films, and literary accounts to thematically explore topics such as the effects of war and conflict across the region, Islam and secularism, colonialism and postcoloniality, gender and political mobilization, media and globalization, and the politics and ethics of nation building. Formerly known as ANTH 358.

ANTH 3705R. Anthropology of Africa. Units: 3

Introduction to anthropological themes related to sub-Saharan Africa. Students learn to recognize both pan-African realities and local specificities, to identify continuities and changes over time, and to understand the realities of living in contemporary African cities, towns, and villages. Satisfies GE D4/UD-4.

ANTH 3706R. Native Nations of North America. Units: 3

History and culture of Native North American groups, including relations with one another and outside societies and the effects of culture change. Formally known as ANTH 351.

ANTH 3910. Selected Topics in Anthropology. Units: 3

An anthropological examination of a selected topic. May be repeated for credit as topics change. Formerly known as ANTH 391.

ANTH 4001T. Archaeological Theory and Method. Units: 3

Quarter Prerequisite: One course from section "Archaeology" of the BA in Anthropology or graduate standing

In-depth exploration of archaeological theories and methods and their application to our understanding of the human past. Formerly ANTH 300, ANTH 400.

ANTH 4020L. Archaeological Survey and Excavation. Units: 4

Examines field techniques and methods of archaeology. Stresses the importance of research design and its relationship with methodology. Active participation in a field project under the direction of the instructor. Eight hours of activity per week. Materials fee required. Formerly known as ANTH 320.

ANTH 4021L. Archaeological Laboratory Analysis. Units: 4

Examines techniques and methods used to analyze archaeological remains in the laboratory. Active participation in various laboratory projects under the direction of the instructor. Three hours lecture and three hours laboratory per week. Formerly known as ANTH 321.

ANTH 4500T. Late Pleistocene Human Evolution. Units: 3

Semester Prerequisite: ANTH 3501 or graduate standing. Quarter Prerequisite: ANTH 325 or graduate standing

Methods and theories applied to analyzing Neandertals and anatomically modern human skeletal and archaeological remains. Formerly known as ANTH 410.

ANTH 4501L. Human Osteology and Functional Anatomy. Units: 4

Semester Prerequisite: ANTH 1001 or equivalent

Prerequisites: ANTH 1001 or equivalent

The identification of human skeletal remains and an introduction to the relationship between form and function in the human skeleton. Three hours lecture and three hours laboratory per week. Formerly known as ANTH 322.

ANTH 4550. Egyptian Mining Expeditions, Their Buildings, and Their Slaves. Units: 3

Quarter Prerequisite: ANTH 336 or HIST 336 or instructor consent

Uses anthropological and archaeological theory to study the archaeological, textual, and representational evidence for large-scale Ancient Egyptian mining expeditions. Looks at how they were organized and supplied and their connections with the Egyptian military. Studies how people lived in the desert, including slaves, laborers, and administrators. Incorporates unpublished archaeological data for students to analyze. Formerly known as ANTH/HIST 455. Offered as ANTH 4550 and HIST 4550, students may not receive credit for both.

ANTH 4601L. Methods in Sociocultural Anthropology. Units: 4

Employ ethnographic research methods such as participant observation and qualitative interviewing techniques to gather and analyze data to gain a better understanding of the goals and methods of sociocultural anthropology. Students will design and carry out an original field research project. Three hours lecture and three hours lab per week. Formerly known as ANTH 317.

ANTH 4603L. Museum Research and Exhibit Development. Units: 4

Trains students to see artifacts as historical records of cultural and scholarly practices and to develop and execute "curatorial" research projects based in museum holdings. Also discussed are standards, considerations, collaborative processes, and tools related to developing and designing interpretive museum exhibitions. Students are directly engaged with original artifacts. Field trips and projects may be required. Coursework may contribute to planning exhibitions for area museums. Three hours lecture and three hours laboratory. Satisfies WI designation.

ANTH 4605T. Human Rights, Violence & Culture. Units: 3

Semester Prerequisite: Anth 3600 or graduate standing
Prerequisites: ANTH 3600 or graduate standing
Students explore and critically evaluate research methods and theories related to cultural violence, ethnic cleansing, human rights, the nation-state and military dictatorships; memory and reconciliation processes; and indigenous justice systems. Formerly known as ANTH 420.

ANTH 4606T. Decolonizing Anthropology. Units: 3

Semester Prerequisite: ANTH 3600 or graduate standing
Prerequisites: ANTH 3600 or graduate standing
Examination of how anthropologists are advancing new research methods and theories that involve collaboration, racial justice, equal rights, and social and environmental rights. Topics include ethical debates about embedded anthropologists and war, colonial anthropology and racism, indigenous and world anthropologies for sovereignty, and other postcolonial anthropological critiques of anthropology's negative effects. Formerly known as ANTH 472.

ANTH 4607T. Anthropology of the State: Power, Culture, and the Politics of Belonging. Units: 3

Semester Prerequisite: ANTH 3600
Explores the historical and contemporary development of the nation-state. Draws on theoretical and ethnographic studies to critically analyze systemic power, hegemony, agency and resistance, and the politics of multiculturalism.

ANTH 5000. Senior Seminar in Anthropology. Units: 3

Semester Prerequisite: ANTH 3600 or consent of instructor. Quarter Prerequisite: ANTH 301 or consent of instructor
Integrative approach incorporating perspectives from archaeology, biological anthropology, and sociocultural anthropology. Formerly known as ANTH 500.

ANTH 5099. Selected Topics in Archaeology. Units: 3

An archaeological examination of a selected topic. May be repeated for credit as topics change. Formerly known as ANTH 590B.

ANTH 5399. Selected Topics in Biological Anthropology. Units: 3

An anthropological examination of a selected topic in Biological Anthropology. May be repeated for credit as topics change. Formerly known as ANTH 590C.

ANTH 5699. Selected Topics in Sociocultural Anthropology. Units: 3

An examination of a selected topic in sociocultural anthropology. May be repeated for credit as topics change. Formerly known as ANTH 590D.

ANTH 5752. Internship in Anthropology. Units: 2

Semester Prerequisite: Consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the semester in which the course is to be taken. Quarter Prerequisite: consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the quarter in which the course is to be taken
Supervised work in public or private organizations emphasizing practical applications of anthropological concepts. May be repeated for credit for a total of 8 units. Graded credit/no credit. Requires consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the semester in which the course is to be taken. Formerly known as ANTH 575B.

ANTH 5753. Internship in Anthropology. Units: 3

Semester Prerequisite: Consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the semester in which the course is to be taken. Quarter Prerequisite: consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the quarter in which the course is to be taken
Supervised work in public or private organizations emphasizing practical applications of anthropological concepts. May be repeated for credit for a total of nine units. Graded credit/no credit. Requires consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the semester in which the course is to be taken. Formerly known as ANTH 575C.

ANTH 5754. Internship in Anthropology. Units: 4

Semester Prerequisite: Consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the semester in which the course is to be taken. Quarter Prerequisite: consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the quarter in which the course is to be taken
Supervised work in public or private organizations emphasizing practical applications of anthropological concepts. May be repeated for credit for a total of eight units. Graded credit/no credit. Requires consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the semester in which the course is to be taken.Formerly known as ANTH 575D.

ANTH 5755. Internship in Anthropology. Units: 5

Semester Prerequisite: Consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the semester in which the course is to be taken. Quarter Prerequisite: consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the quarter in which the course is to be taken

Supervised work in public or private organizations emphasizing practical applications of anthropological concepts. May be repeated for credit for a total of 10 units. Graded credit/no credit. Formerly known as ANTH 575E.

ANTH 5762. Internship in Museum Studies. Units: 2

Semester Prerequisite: Consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the semester in which the course is to be taken. Quarter Prerequisite: consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the quarter in which the course is to be taken

Supervised work in public or private museums emphasizing practical applications of knowledge acquired in the classroom. May be repeated for credit for a total of 10 units. Graded credit/no credit. Formerly known as ANTH 576B.

ANTH 5763. Internship in Museum Studies. Units: 3

Semester Prerequisite: Consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the semester in which the course is to be taken. Quarter Prerequisite: consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the quarter in which the course is to be taken

Supervised work in public or private museums emphasizing practical applications of knowledge acquired in the classroom. May be repeated for credit for a total of 12 units. Graded credit/no credit. Formerly known as ANTH 576C.

ANTH 5764. Internship in Museum Studies. Units: 4

Semester Prerequisite: Consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the semester in which the course is to be taken. Quarter Prerequisite: consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the quarter in which the course is to be taken

Supervised work in public or private museums emphasizing practical applications of knowledge acquired in the classroom. May be repeated for credit for a total of 8 units. Graded credit/no credit. Formerly known as ANTH 576D.

ANTH 5765. Internship in Museum Studies. Units: 5

Semester Prerequisite: Consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the semester in which the course is to be taken. Quarter Prerequisite: consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the quarter in which the course is to be taken

Supervised work in public or private museums emphasizing practical applications of knowledge acquired in the classroom. May be repeated for credit for a total of 10 units. Graded credit/no credit. Formerly known as ANTH 576E.

ANTH 5772. Internship in Archaeology. Units: 2

Semester Prerequisite: Consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the semester in which the course is to be taken. Quarter Prerequisite: consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the quarter in which the course is to be taken

Supervised fieldwork or laboratory analysis in archaeology in public or private organizations emphasizing practical applications of archaeological theories and methods. May be repeated for credit for a total of 8 units. Graded credit/no credit. Formerly known as ANTH 577B.

ANTH 5773. Internship in Archaeology. Units: 3

Semester Prerequisite: Consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the semester in which the course is to be taken. Quarter Prerequisite: consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the quarter in which the course is to be taken

Supervised fieldwork or laboratory analysis in archaeology in public or private organizations emphasizing practical applications of archaeological theories and methods. May be repeated for credit for a total of 9 units. Graded credit/no credit. Formerly known as ANTH 577C.

ANTH 5774. Internship in Archaeology. Units: 4

Semester Prerequisite: Consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the semester in which the course is to be taken. Quarter Prerequisite: consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the quarter in which the course is to be taken

Supervised fieldwork or laboratory analysis in archaeology in public or private organizations emphasizing practical applications of archaeological theories and methods. May be repeated for credit for a total of 12 units. Graded credit/no credit. Formerly known as ANTH 577D.

ANTH 5775. Internship in Archaeology. Units: 5

Semester Prerequisite: Consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the semester in which the course is to be taken. Quarter Prerequisite: consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the quarter in which the course is to be taken

Supervised fieldwork or laboratory analysis in archaeology in public or private organizations emphasizing practical applications of archaeological theories and methods. May be repeated for credit for a total of 10 units. Graded credit/no credit. Formerly known as ANTH 577E.

ANTH 5782. Internship in Applied Sociocultural Anthropology. Units: 2

Semester Prerequisite: Consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the semester in which the course is to be taken. Quarter Prerequisite: Consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the quarter in which the course is to be taken

Supervised work in any field where students may apply social and cultural anthropological knowledge to work situations. May be repeated for credit for a total of 10 units. Graded credit/no credit. Formerly known as ANTH 578B.

ANTH 5783. Internship in Applied Sociocultural Anthropology. Units: 3

Semester Prerequisite: Consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the semester in which the course is to be taken. Quarter Prerequisite: consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the quarter in which the course is to be taken

Supervised work in any field where students may apply social and cultural anthropological knowledge to work situations. May be repeated for credit for a total of 10 units. Graded credit/no credit. Formerly known as ANTH 578C.

ANTH 5784. Internship in Applied Sociocultural Anthropology. Units: 4

Semester Prerequisite: Consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the semester in which the course is to be taken. Quarter Prerequisite: consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the quarter in which the course is to be taken

Supervised work in any field where students may apply social and cultural anthropological knowledge to work situations. May be repeated for credit for a total of 12 units. Graded credit/no credit. Formerly known as ANTH 578D.

ANTH 5785. Internship in Applied Sociocultural Anthropology. Units: 5

Semester Prerequisite: Consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the semester in which the course is to be taken. Quarter Prerequisite: consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the quarter in which the course is to be taken

Supervised work in any field where students may apply social and cultural anthropological knowledge to work situations. May be repeated for credit for a total of 10 units. Graded credit/no credit. Formerly known as ANTH 578E.

ANTH 5850. Fieldwork in Sociocultural Anthropology. Units: 3

Semester Prerequisite: Consent of instructor. Quarter Prerequisite: Consent of instructor

Supervised design, execution and analysis of an individualized ethnographic field project. Formerly known as ANTH 585.

ANTH 5951. Independent Study. Unit: 1

Semester Prerequisite: a minimum overall grade point average of 3, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. Quarter Prerequisite: a minimum overall grade point average of 3

Special topics involving library and/or field research. A total of six units in ANTH 5951-5954 may be applied toward graduation. Only three of those units may be applied to the major. Formerly known as ANTH 595B.

ANTH 5952. Independent Study. Units: 2

Semester Prerequisite: Prerequisites: a minimum overall grade point average of 3, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. Quarter Prerequisite: a minimum overall grade point average of 3

Special topics involving library and/or field research. A total of six units in ANTH 5951-5954 may be applied toward graduation. Only three of those units may be applied to the major. Formerly known as ANTH 595C.

ANTH 5953. Independent Study. Units: 3

Semester Prerequisite: A minimum overall grade point average of 3, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. Quarter Prerequisite: a minimum overall grade point average of 3

Special topics involving library and/or field research. A total of six units in ANTH 5951-5954 may be applied toward graduation. Only three of those units may be applied to the major. Formerly known as ANTH 595D.

ANTH 5954. Independent Study. Units: 4

Semester Prerequisite: a minimum overall grade point average of 3, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. Quarter Prerequisite: a minimum overall grade point average of 3

Special topics involving library and/or field research. A total of six units in ANTH 5951-5954 may be applied toward graduation. Only three of those units may be applied to the major. Formerly known as ANTH 595E.

ANTH 5955. Senior Honors Project. Units: 4

Original research in an area of anthropological studies, culminating in a major research report receiving approval of the anthropology faculty. Enrollment limited to students whose formal application for departmental honors is approved. Formerly known as ANTH 597.

ANTH 6000. Proseminar in Anthropology. Units: 3

Quarter Prerequisite: consent of instructor
Survey of the concepts and methods that anthropologists employ to study, describe and analyze globalization. Formerly known as ANTH 600.

ANTH 6003. Advanced Studies in California Archaeology. Units: 3

Advanced study of the archaeology of California from the late Pleistocene through the Historic Period. Follows a temporal and topical approach, with particular emphasis on California Indians and ecological causes for cultural changes through time. Formerly known as ANTH 603.

ANTH 6004. History and Theory of Archaeology. Units: 3

Course provides an in-depth survey of the history of archaeology from its beginnings to the present day with an emphasis on developments in theory and their relationship to the interpretation of the archaeological record. Special attention is given to theories common to the study of the California hunter-gatherer cultures. Course intended to help students establish a basic framework for understanding, discussing, and writing about the development of theory in the discipline. Formerly known as ANTH 616.

ANTH 6005. Archaeological Research, Methods, and Proposal Design. Units: 3

In-depth investigation of selected problems in prehistoric and historical archaeology including detailed analysis of research design and methods used to address these problems. Consideration will also be given to the paradigms and theories that have underpinned how these problems have been investigated. Formerly offered as ANTH 615, students may not receive credit for both.

ANTH 6008. Advanced Indigenous Archaeology. Units: 3

A review of the discipline of Indigenous Archaeology. Includes contemporary case studies to illustrate theories and methods used in the field of Indigenous Archaeology.

ANTH 6012. Advanced Historical Archaeology. Units: 3

Advanced study of the use of archaeological methods to study historic peoples. The integration of archaeological research with documentary sources to reconstruct the past. Formerly known as ANTH 601.

ANTH 6013. Cultural Resource Management: Laws, Regulations, and Procedures. Units: 3

History of American historic preservation and overview of the laws and implementing regulations of NHPA Section 106, CEQA, NEPA, NAGPRA, ARPA, and other preservation laws. Introduction to CRM project implementation, including consultation, surveys, evaluations, mitigation, and curation management. Formerly known as ANTH 611.

ANTH 6014. Cultural Resource Management in Practice. Units: 4

The implementation of laws through regulations and agency policies and how those laws are operationalized through applied archaeology. Course uses Phase I, II, and III case studies to show how projects are conducted and how to create the resulting environmental documentation, as well as how to write proposals and budget for projects. Introduction to report writing and MOAs and MOUs. Formerly known as ANTH 612.

ANTH 6021L. Advanced Archaeological Laboratory Analysis. Units: 4

Advanced study of techniques and methods used to analyze archaeological remains in the laboratory. Special attention will be given to artifacts and analyses common to California. Active participation in various laboratory projects under the direction of the instructor. Three hours lecture and three hours laboratory per week. Formerly known as ANTH 602.

ANTH 6201. Advanced Archaeology of the Senses. Units: 3

A global perspective on archaeological research relating to the human senses. Topics may include music, oration, dance, art, food, smell, pain, and trance states. Students will read theoretical works and case study examples taking phenomenological and sensorial perspectives on a wide variety of archaeological contexts, from the music of ancient China to the sacrificial rituals of prehispanic Mesoamerica.

ANTH 6603L. Advanced Museum Research and Exhibition Development. Units: 4

Trains students to conduct curatorial research projects based in museum holdings. Includes standards, considerations, collaborative processes, and tools for developing and designing interpretive museum exhibitions. Coursework may contribute to planning exhibitions for area museums. Field trips and projects may be required.

ANTH 6754. Graduate Internship in Applied Archaeology. Units: 4

Supervised work in public or private organizations providing professional, hands-on experience in applied archaeology. May be repeated for a total of eight units. Graded Credit/No Credit. Formerly known as ANTH 677.

ANTH 6952. Independent Graduate Study. Units: 2

Semester Prerequisite: Consent of instructor and departmental approval.
Quarter Prerequisite: Consent of instructor and departmental approval
Graduate-level independent study in anthropology for students in the program for the Master of Arts in Interdisciplinary Studies or in other graduate programs. A total of eight units may apply toward graduation. Formerly known as ANTH 695B.

ANTH 6953. Independent Graduate Study. Units: 3

Quarter Prerequisite: Consent of instructor and departmental approval
Graduate-level independent study in anthropology for students in the program for the Master of Arts in Interdisciplinary Studies or in other graduate programs. A total of eight units may apply toward graduation.

ANTH 6954. Independent Graduate Study. Units: 4

Quarter Prerequisite: Consent of instructor and departmental approval
Graduate-level independent study in anthropology for students in the program for the Master of Arts in Interdisciplinary Studies or in other graduate programs. A total of eight units may apply toward graduation.

ANTH 6955. Independent Graduate Study. Units: 5

Quarter Prerequisite: Consent of instructor and departmental approval
Graduate-level independent study in anthropology for students in the program for the Master of Arts in Interdisciplinary Studies or in other graduate programs. A total of eight units may apply toward graduation.

ANTH 6970. Thesis Research. Units: 3

Independent graduate research conducted under the guidance of the major advisor, with assistance from the other members of the student's committee, and resulting in a thesis or a completed project, either of which must be successfully defended. Formerly know as ANTH 699B.

ANTH 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ANTH 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ANTH 6992. Continuous Enrollment for Graduate Candidacy Standing. Units: 2

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ANTH 6993. Continuous Enrollment for Graduate Candidacy Standing. Units: 3

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ANTH 6994. Continuous Enrollment for Graduate Candidacy Standing. Units: 4

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ANTH 6995. Continuous Enrollment for Graduate Candidacy Standing. Units: 5

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ANTH 6996. Continuous Enrollment for Graduate Candidacy Standing. Units: 6

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

Arabic (ARAB)

Courses

ARAB 1102. Beginning Arabic Activity Lab. Unit: 1

Semester Prerequisite: ARAB 1111 or equivalent
Semester Corequisite: ARAB 1112

Students practice their Arabic language skills with activities that complement the learning in ARAB 1112.

ARAB 1111. Beginning Arabic 1. Units: 3

Introduction to the Modern Standard Arabic language and one spoken variety. Students develop skills in speaking, writing, reading and listening with a focus on developing communication and intercultural competence. Satisfies DI and G designations. Materials fee required.

ARAB 1112. Beginning Arabic 2. Units: 3

Semester Prerequisite: 2 years high school language study, placement exam, equivalent college-level course (eg ARAB 1111) or consent of department

Students continue to develop their abilities to use Arabic to interact effectively with speakers from a variety of Arab cultures. Course focuses on developing skills in speaking, writing, reading and listening in a variety of everyday sociocultural contexts. Satisfies GE C2/3B, DI, G designations. Materials fee required. Not open to native speakers who attended high school where Arabic is the language of instruction.

ARAB 1151. Accelerated Beginning Arabic. Units: 6

This course is equivalent to two semesters of Beginning Arabic. The course introduces students to Modern Standard Arabic and develops their abilities to use the language and interact effectively with speakers from a variety of Arab cultures. Course focuses on developing skills in speaking, writing, reading and listening in a variety of everyday sociocultural contexts. Materials fee required.

ARAB 1152. Accelerated Arabic Activity Lab. Unit: 1

Semester Corequisite: ARAB 1151

Students put their Arabic skills to practice while engaging in activities that complement their learning in ARAB 1151.

ARAB 2111. Arabic Communication. Units: 4

Semester Prerequisite: ARAB 1112 and 1102 or ARAB 1151 and 1152 or consent of department. Quarter Prerequisite: ARAB 103

Students develop their cultural proficiency as well as their skills in listening and speaking using authentic texts, online media, poems and songs. Materials fee required.

ARAB 2112. Arabic Literature and societies. Units: 4

Semester Prerequisite: ARAB 1112 and ARAB 1102 or ARAB 1151 and ARAB 1152 or consent of department

Students develop their cultural proficiency as well as their reading comprehension skills as they explore varied prose and poetry genres in Arabic writing and literature and how they reflect and relate to Arab societies. Materials fee required.

ARAB 2113. Arabic Media. Units: 4

Semester Prerequisite: ARAB 1112 and ARAB 1102 or ARAB 1151 and ARAB 1152 or consent of department. Quarter Prerequisite: ARAB 103

Students develop their listening, speaking, reading, and writing skills through an exploration of contemporary social and cultural media, news and the arts. Materials fee required.

ARAB 2114. Arabic for Professional Communication. Units: 4

Semester Prerequisite: ARAB 1112 and ARAB 1102 or ARAB 1151 and ARAB 1152 or consent of department

An introduction to Arabic for specific professional purposes. Development of basic language skills and cultural awareness needed for professionals in different fields to communicate with Arabic speakers. Introduces students to Arabic terminology related to these professions. May be repeated for a total of 8 units as topics change. Materials fee required.

ARAB 2900. Arabic Literature in Translation. Units: 3

Study of selected translations of major poets and writers from the Arabic speaking world. Exploration of the Arab cultures within sociohistorical and political context. Students will learn the basic genres and themes of classical, modern and contemporary Arabic literature. Satisfies GE C2/3B, DI, G designations.

ARAB 3111. Arab Culture, Media and Identity. Units: 3

Semester Prerequisite: Prerequisite 8 units of two of the following courses: ARAB 2111, 2112, 2113, 2114

An exploration of cultural phenomena in the Arab world through authentic media and readings. Students make connections between cultural perspectives and products while developing their interpretive, interpersonal and presentational skills. Materials fee required.

ARAB 3112. Explorations of Arabic Literary Texts. Units: 3

Semester Prerequisite: 8 units of two of the following courses: ARAB 2111, 2112, 2113, 2114. Quarter Prerequisite: ARAB 203 or equivalent

Students develop their reading comprehension skills as well as their cultural proficiency as they explore authentic literary texts. Formerly ARAB 216. Materials fee required.

ARAB 3113. Spoken Arabic. Units: 3

Semester Prerequisite: 8 units of any of the following courses: ARAB 2111, 2112, 2113, 2114

Introduction to a spoken variety of Arabic in order to communicate effectively with Arabic speakers. Focus will be on developing listening and speaking skills to communicate effectively in everyday situations. May be repeated for a total of 6 units as topics change. Materials fee required.

ARAB 3114. Introduction to Arabic Linguistics. Units: 3

Semester Prerequisite: 8 units of any two of the following courses :ARAB 2111, 2112, 2113, 2114. Quarter Prerequisite: ARAB 203

An introduction to the structure, sound system and semantics of the Arabic language. Course will cover issues related to diglossia and sociolinguistics. Formerly ARAB 321. Materials fee required.

ARAB 3115. Introduction to Arabic Translation. Units: 3

Semester Prerequisite: 8 units chosen from ARAB 2111, 2112, 2113, 2114. Quarter Prerequisite: ARAB 303

An introduction to the skill of translation and the nuances of linguistic and cultural knowledge required to complete translations of Arabic to English and English to Arabic. Students will analyze professional translations and explore how these translations may differ, while working on their own translations of authentic texts. Materials fee required.

ARAB 3116. Explorations in Arabic Media. Units: 3

Semester Prerequisite: Eight units from any of the following: ARAB 2111, ARAB 2112, ARAB 2113, ARAB 2114. Quarter Prerequisite: ARAB 301

Explorations of authentic contemporary media of diverse forms from different Arab countries. They evaluate relationships between media, social phenomena and current affairs. Formerly ARAB 471. May be taken for up to 9 units as topics change. Materials fee required.

ARAB 3117. Advanced Arabic for Professional Communication. Units: 3

Semester Prerequisite: ARAB 2114, 3111, 3112, 3113, 3114. Quarter Prerequisite: ARAB 303

Students continue to develop their language skills and cultural awareness needed for professional settings to better communicate with Arabic speakers. Students continue to build upon their knowledge of Arabic terminology related to the professions. May be repeated for a total of 9 units as topics change. Materials fee required.

ARAB 3150. Arabic Conversation Activity. Unit: 1

Semester Prerequisite: ARAB 1112 or ARAB 1151 or equivalent

This course allows students to focus on practicing their speaking on a regular basis. Speaking activities are based on discussions of contemporary topics from authentic resources. Graded credit/no credit. May be repeated for a total of 3 units.

ARAB 3160. Writing Explorations. Unit: 1

Semester Prerequisite: ARAB 1112 or ARAB 1150 or equivalent

Students focus on writing practice in Arabic. Emphasis will be placed on Arabic style and structure or Arabic calligraphy according to a topic. Graded credit/no credit. May be repeated for credit for a total of 3 units.

ARAB 3900. Female Voices in Arab American Literature. Units: 3

A survey of cultural experiences of Arab and Arab American women. The course will explore written, spoken and performative expressions. Students will write responses and reflections as well as develop stories about their own cultural experiences with an emphasis on social justice. Satisfies GE C4/UD-3, DI, G, WI designations, and Diversity and Social Justice pathway.

ARAB 4113. Arabic Pedagogy. Units: 3

Semester Prerequisite: 6 units chosen from ARAB 3111, 3112, 3113, 3114. Quarter Prerequisite: ARAB 303

This course prepares students to become teachers of Arabic as a world language. Students will learn how to set goals, design courses and lessons in alignment with language teaching standards and theories of language teaching and second language acquisition. Materials fee required.

ARAB 4500. Signature Work. Unit: 1

Students track their progress in Arabic learning, examine their proficiency levels, explore future careers and work on a creative project, paper, community work, presentation, blog, thesis, and study abroad. Graded credit/no credit. Materials fee required.

ARAB 4900. Voices and Visions from the Arab World. Units: 3

An exploration of the intersections of language, identity, and culture of different Arab communities through the study of their writings and creative contributions. May be taken 2 times for 6 units, as topics change, but only 3 can be used for GE credit. Satisfies GE C4/UD-3, DI, G designations. Taught in English. Materials fee required.

ARAB 5900. Global Perspectives and Study Abroad. Units: 3

The course will prepare students who are planning to go on a study abroad to Arab countries for life in the Arab world. Students will develop their intercultural competence and ability to interact effectively with Arabic speakers. Taught in English. Materials fee required.

Art (ART)

Courses

ART 1120. 2D Foundation: Line, Color and Composition. Units: 3

An introduction to analogue and digital applications used to explore elements and principles of two-dimensional art, focusing on line, color and composition as related to contemporary art concepts. Creative problem solving and developing visual literacy skills using traditional and non-traditional media. Formerly ART 120. Materials fee required. One hour lecture and four hours activity.

ART 1130. 3D Foundation: Form, Space & Time. Units: 3

An introduction to analogue and digital applications used to explore elements and principles of three-dimensional art, focusing on contemporary art concepts and form in space. Experimentation with materials such as paper, clay, metal, plastic, and wood using both traditional and innovative techniques will be developed. Formerly ART 121. Materials fee required. One hour lecture and four hours activity.

ART 1140. Creative Technology for Artists. Units: 3

An introduction to computer-based technology used by visual artists. Student projects will include the use of vector and raster based computer software as well as 3D modeling, digital video, and photography. Formerly ART 123. One hour lecture and four hours of studio activity per week. Materials fee required.

ART 1150. Language of Art. Units: 3

Students will gain foundational knowledge of the terminology, diversity of approaches, and potential career options related to the practice, interpretation, exhibition, and teaching of art. Materials fee required. Satisfies WI designation.

ART 1160. Introduction to Drawing and Life Drawing. Units: 3

An introduction to drawing techniques and expression. Emphasis on rendering form and space, mark making, value, line, gesture and linear perspective, including direct observation of live model. Formerly ART 122. One hour lecture and four hours of studio activity per week. Materials fee required.

ART 1200. Creativity, Imagination, and the Consciousness. Units: 3

An exploration of the integration of creativity, imagination, and understandings of consciousness through the lens of diverse cultural perspectives, philosophies and the way individuals and cultures have applied these in creative practices. In addition to research and analysis, students will engage in meditative and reflective activities including conscious breathing, writing, and drawing. Satisfies GE C1/3A, G designation. Three hours per week seminar. Materials fee required.

ART 2240. Beginning Imaging and Illustration. Units: 3

Semester Prerequisite: ART 1140
Combining digital and analogue mediums to explore visual communication. Emphasis on expressive problem solving, story-telling, modeling and rendering. Formerly ART 238. One hour lecture and four hours of studio activity per week. Materials fee required.

ART 2260. Beginning Photography. Units: 3

Fundamentals of creative photography including digital camera operation, capture, editing, printing and basic studio lighting. Emphases on technology, content and theory for creative, commercial and scientific applications. Formerly ART 291. Materials fee required.

ART 2290. Beginning Painting. Units: 3

Develop the basic technical and conceptual skills of painting. Provide an introduction to the medium's fundamental techniques and materials. Emphasis on color theory, composition, and naturalistic style as well as the expressive and conceptual potential of paint. Formerly ART 235. One hour lecture and four hours of studio activity per week. Materials fee required.

ART 2320. Beginning Ceramics. Units: 3

An introduction to beginning techniques including pinch, coiling, slab building, and wheel throwing to create pottery and ceramic sculpture. Experimentation with clay and glaze chemistry and digital ceramics applications will be introduced. Lectures will provide an introduction to the ceramic art movement from a global perspective, both historical and contemporary. Formerly ART 254. One hour lecture and four hours of studio activity per week. Materials fee required.

ART 2329. Xicanx Art. Units: 3

This project based learning course examines the origin, meanings, practitioners, diverse approaches, and sociopolitical context of Xicanx Art. Students will apply what is learned through the design and implementation of original multidisciplinary projects that are public, participatory, or community based and inspired by Xicanx art. One hour lecture and four hours activity. Formerly offered as Art 329. Materials fee required.

ART 2330. Beginning Glass. Units: 3

Quarter Prerequisite: ART 121 or consent of instructor
Basic creative glassworking techniques, including working with molten glass (glassblowing, solid sculpting,) coldworking (cutting, grinding, polishing, surface decoration) and kilnworking (fusing, casting). Lectures, demonstrations, visiting artists, and field trips as needed. Formerly offered as ART 270. One hour lecture and four hours of studio activity per week. Materials fee required.

ART 2350. Sculpture I: Introduction to Sculpture. Units: 3

Introduction to fundamental concepts, materials, and processes of sculpture using both traditional and experimental media. Emphasis on technical skills, creative problem-solving, conceptual development, and critical thinking informed by historical and contemporary practices. One hour lecture and four hours of studio activity per week. Materials fee required.

ART 2400. Introduction to Chicanx Art. Units: 3

Examination of the origin, meaning, practitioners, characteristics, motivations, and sociopolitical context of Chicanx Art and activism. Satisfies GE C1/3A, DI designation.

ART 3000. Art and Activism. Units: 3

This Project-based Learning course explores the histories of art and activism from a multidisciplinary perspective. Students will reflect on their own experiences and design and facilitate a collaborative project with the campus or larger community applying learning about the theories and practices of art and activism. Satisfies GE C4/UD-3, DI, WI designations, Diversity and Social Justice pathway. Materials fee required.

ART 3160. Intermediate Drawing and Life Drawing. Units: 3

Semester Prerequisite: ART 1160 or consent of instructor
Intermediate drawing and figure drawing with an emphasis on creative expression and developing an artistic voice using elements of mark making. One hour lecture and four hours of studio activity per week. Materials fee required.

ART 3240. Intermediate Imaging and Illustration. Units: 3

Semester Prerequisite: ART 2240
Intermediate level combination of digital and analogue mediums to explore visual communication. Emphasis on expressive problem solving, storytelling, modelling and rendering. Formerly ART 350. One hour lecture and four hours of studio activity per week. Materials fee required.

ART 3260. Intermediate Photography. Units: 3

Semester Prerequisite: ART 2260 or consent of instructor. Quarter Prerequisite: ART 290 and ART 291 or consent of instructor
Introduction to analog film and traditional darkroom processes including manual operation of 35mm, medium, and large format cameras, hand-processing film, negative enlargement, wet lab printing, and digital scanning in both color and B&W. Materials fee required. One hour of lecture per week, plus four hours of studio activity. Formerly ART 391.

ART 3265. Special Topics in Photo/Video. Units: 3

Semester Prerequisite: ART 2260 and ART 3260 or consent of instructor
An advanced course providing the opportunity for studio work in a predetermined area of specialization, with each semester focusing on a particular topic or theme. Students will examine critical issues and texts related to the topic, and develop a portfolio or body of work in relation to the topic over the course of the semester. May be taken up to three times for a maximum of 9 units as topics change. Materials fee required. One hour lecture and four hours of studio activity per week.

ART 3270. Printmaking. Units: 3

Intensive study of printmaking including the study of etching, collagraph, silkscreen, lithography, wood and lino printing or experimental processes and combinations stressing individual growth and aesthetic control of imagery and technique. One hour lecture and four hours of studio activity per week. Materials fee required.

ART 3290. Intermediate Painting. Units: 3

Semester Prerequisite: ART 2290 or consent of instructor. Quarter Prerequisite: ART 235 or consent of instructor
Intermediate research in painting introducing the medium's expressive and conceptual possibilities. Includes color theory, composition, and material techniques developed in relation to the medium's historical background and contemporary practices. Formerly ART 335. One hour lecture and four hours of studio activity per week. Materials fee required.

ART 3320. Intermediate Ceramics. Units: 3

Semester Prerequisite: ART 2320 or consent of instructor
Intermediate level exploration of functional and sculptural approaches to ceramics utilizing mold making slip casting, wheel throwing, hand building techniques, digital ceramics, and multiple glazing applications. Laboratory training in clay and glaze chemistry, kiln loading, firing methods, and health and safety practices that are standard for creative and industrial applications. Lectures will focus on historical and contemporary aspects of the craft and ceramic art movement from a global perspective. Formerly ART 355. One hour lecture and four hours of studio activity per week. Materials fee required.

ART 3330. Intermediate Glass. Units: 3

Semester Prerequisite: ART 2330 or consent of instructor. Quarter Prerequisite: ART 270 or consent of instructor
Continued explorations in glass with an emphasis on developing skills that articulate a personal artistic vision. Demonstrations of more advanced and/or refined techniques in various glassworking areas will supplement image presentations, field trips, and independent in-studio work time. Laboratory training in glass formulations and melting, color chemistry and health and safety practices that are standard for creative and industrial applications. Formerly ART 370. One hour lecture and four hours of studio activity per week. Materials fee required.

ART 3332. Case Studies in Art and Activism. Units: 3

This course will explore the interrelated histories of art and activism through select case studies focusing on artists and collectives addressing a diversity of issues throughout time and around the globe. Students will further reflect on social issues that are compelling to them and do research to familiarize themselves more deeply with the issue and with artists and activists who have taken on similar causes. Students will apply what learning through collaborative projects and student-led research. May be taken two times for a total of 6 units. Materials fee required. Satisfies G designation.

ART 3370. Woodworking and Furniture Design. Units: 3

Woodworking and furniture design using a variety of materials, tools, processes, and concepts to produce art and design objects. Hand and power tools, various machines, layout, and material selection. One hour lecture and four hours of studio activity per week. Materials fee required.

ART 3430. Digital Fabrication: Functional Art/ Object Design 1. Units: 3

Semester Prerequisite: ART 1140 or consent of instructor. Quarter Prerequisite: ART 123
This course is designed for artists and designers interested in making three-dimensional forms from digital files. Students will explore direct 3D modeling, parametric modeling, and creating vector files. Students will model simple and complex objects for both fine art and commercial applications and fabricate them by using laser cutters, 3D printers and CNC milling processes. One hour lecture and four hours of studio activity per week. Materials fee required.

ART 3520. Socially-engaged Art. Units: 3

This course will investigate new and non-traditional approaches to socially-engaged art, including social practice and participatory art. Students will research and reflect on relevant social issues to identify their area of interest and use this as the basis for creating original socially-engaged art projects. One hour lecture and 4 hours activity. Course may be taken 2 times for a total of 6 units.

ART 3700. Public Art. Units: 3

Semester Prerequisite: 1 lower-division studio course or consent of instructor. Quarter Corequisite: UCC amended - removed as content changes from catalog description. Quarter Prerequisite: ART 120, 121, 122 and 123, or consent of instructor

The study and practice of art for public places including the history, theory, conceptualization, production, combined with professional and business practices. Laboratory training in methods, materials, operating equipment, and health and safety practices. May be taken up to 4 times for a maximum of 12 units. Formerly ART 441. One hour lecture and four hours of studio activity per week. Materials fee required.

ART 3710. Video Art. Units: 3

Semester Prerequisite: ART 1140 or consent of instructor. Quarter Prerequisite: ART 123 or consent of instructor

Creative research and experimentation in digital video art including history, theory, production (camera, lighting, sound, and editing techniques), presentation (single channel, multi-channel, projection, and installation), and contemporary practices. May be taken up to 4 times for a maximum of 12 units. Formerly ART 387. One hour lecture and four hours of studio activity per week. Materials fee required.

ART 3720. Performance Art. Units: 3

Semester Prerequisite: 1 lower-division studio course or consent of instructor

Exploration of action, movement, media, and audience in the development and practice of performative works. History, theory, methodology of performance art and its cultural impact will be discussed in the context of individual or group, narrative or non-narrative events. May be taken up to 4 times for a maximum of 12 units. One hour lecture and four hours of studio activity per week. Materials fee required.

ART 3730. Installation Art. Units: 3

Semester Prerequisite: ART 1130 and 1 lower-division studio course or consent of instructor. Quarter Prerequisite: Art 121, 122, 123, 124, and successful completion of two lower-division studio courses or consent of instructor

A cross-disciplinary sculptural practice that incorporates or is characterized by its environment or site. Theoretical and conceptual issues, practical concerns and techniques, and history of installation art. Art making, lectures, critiques, visiting artists, and field trips as needed. May be taken up to 4 times for a maximum of 12 units. One hour of lecture per week, plus four hours of studio activity. Formerly ART 373. Materials fee required.

ART 3740. Visiting Artist Residency: Collaborative Production & Exhibition Practice. Units: 3

Semester Prerequisite: Senior standing or consent of instructor

Working directly with a visiting resident artist, students will participate in the production of an artwork and/or exhibition for the campus community. Students will gain service-learning experience in collaborative approaches to art-making processes, from conception to fabrication to installation and/or exhibition. Specific lectures and skills taught will be dictated by the requirements of the project. Laboratory training in methods, materials, operating equipment, and health and safety practices. May be taken 2 times for up to 6 units as content will change with each visiting artist. One hour lecture and four hours of studio activity per week. Materials fee required.

ART 3760. Border Art. Units: 3

Semester Prerequisite: 1 lower division studio course or consent of instructor; no pre-requisites for non-art majors

This course will study the cultural dynamics, politics, and art that is produced where neighboring regions meet. Students will also explore making socially engaged artworks that relate to the course content by working individually and collectively in the studio. One hour lecture and four hours of studio activity per week. Materials fee required.

ART 3780. Special Topics in Art. Units: 3

Studio/laboratory course with varying topics addressing genres, media, and interdisciplinary studies with coursework focused on a selected topic. Formerly ART 366. Materials fee required. May be taken 4 times for 12 units.

ART 4160. Advanced Drawing and Life Drawing. Units: 3

Semester Prerequisite: ART 3160 or consent of instructor. Quarter Prerequisite: ART 122 or consent of instructor

Advanced exploration of drawing and figure drawing with an emphasis on creative expression and developing an artistic voice using elements of mark-making. May be taken up to 4 times for a total of 12 units. Formerly ART 304. One hour lecture and four hours of studio activity per week. Materials fee required.

ART 4240. Advanced Imaging and Illustration. Units: 3

Semester Prerequisite: ART 3240 or consent of instructor

Advanced level combination of digital and analogue mediums to explore visual communication. Emphasis on expressive problem solving, storytelling, modeling and rendering. May be taken 4 times for a total of 12 units. Formerly ART 320. One hour lecture and four hours of studio activity per week. Materials fee required.

ART 4260. Advanced Photography/Video Studio. Units: 3

Semester Prerequisite: ART 3260, two sections of ART 3265, and ART 3710, or consent of instructor. Quarter Prerequisite: ART 290, ART 291 and ART 391 or consent of instructor

Research and development of individual photography and/or video projects for creative, commercial, and scientific applications. Students are expected to conduct research, develop a portfolio, and take on long-term or large-scale projects that effectively engage with contemporary issues. Extensive development of both technical skills and critical analysis. May be taken up to 2 times for up to 6 units. Materials fee required. One hour lecture and four hours of studio activity per week.

ART 4270. Advanced Printmaking. Units: 3

Semester Prerequisite: ART 3270 or consent of instructor

Creative research in intermediate studio printmaking techniques in intaglio methods, including metal, collagraph and related materials; methods used to create stencils for multi-color registration and printing including photo processing; lithographic methods on stone or metal plates; black and white and color processes and polymer relief processes. May be taken up to 4 times as content changes. Formerly ART 361. One hour lecture and four hours of studio activity per week. Materials fee required.

ART 4290. Advanced Painting. Units: 3

Semester Prerequisite: ART 3290 or consent of instructor. Quarter Prerequisite: ART 335 or consent of instructor
Advanced exploration of individual artistic vision in paint. Formerly ART 336. May be taken up to 4 times as content changes. One hour lecture and four hours of studio activity per week. Materials fee required.

ART 4320. Advanced Ceramics. Units: 3

Semester Prerequisite: ART 3320 or consent of instructor. Quarter Prerequisite: ART 355 or consent of instructor
Advanced exploration of mold making, wheel throwing, slip casting, digital ceramics, and hand-building techniques that will result in the development of individual aesthetics and concepts. Advanced laboratory training in clay and glaze chemistry, kiln loading, firing methods, and health and safety practices that are standard for creative and industrial applications. Lectures and research will focus on the craft and ceramic art movement from a global perspective, both historical and contemporary. Formerly offered as ART 357. May be taken up to 4 times for a total of 12 units. One hour lecture and four hours of studio activity per week. Materials fee required.

ART 4330. Advanced Glass. Units: 3

Semester Prerequisite: ART 3330 or consent of instructor. Quarter Prerequisite: Ten units of ART 370 or consent of instructor
Students observe demonstrations and work independently to articulate and refine a cohesive body of work using glass as an integral part of the artistic vision. Additional instruction in studio management, equipment maintenance, safe practices in glass melting and color mixing as needed. May be repeated for a maximum of 12 units. Formerly offered as ART 471. One hour lecture and four hours of studio activity per week. Materials fee required.

ART 4350. Sculpture II: Studio Practices. Units: 3

Semester Prerequisite: ART 2350
An advanced studio course in sculpture emphasizing both structured and self-directed projects. Students explore a range of processes, materials, and conceptual approaches developed through self-directed and complex projects. Focus is placed on conceptual development and material experimentation. May be taken up to 5 times for a maximum of 15 units; however students repeating this course must complete new projects and demonstrate progressively advanced outcomes. One hour lecture and four hours of studio activity per week. Materials fee required.

ART 4370. Advanced Woodworking and Furniture Design. Units: 3

Semester Prerequisite: ART 3370 or consent of instructor. Quarter Prerequisite: ART 308 or consent of instructor
Advanced work in woodworking and furniture design. May be taken up to 4 times for a maximum of 12 units. One hour of lecture per week, plus four hours of studio activity. Materials fee required.

ART 4430. Digital Fabrication: Functional Art/ Object Design 2. Units: 3

Semester Prerequisite: ART 3430 or consent of instructor
This course covers advanced methods and procedures for making three-dimensional forms from digital files. Students will explore direct 3D modeling, parametric modeling, and creating vector files. Students will model simple and complex objects for both fine art and commercial applications and fabricate them by using laser cutters, 3D printers, and CNC milling processes. May be taken 2 times for a total of 6 units. One hour lecture and four hours of studio activity. Materials fee required.

ART 4450. Arts in Action: Visual Art. Units: 3

The applied practice of arts education in the community. Projects will vary based on participants. May be repeated for credit if taken under a different Fine Arts subject (Dance, Visual Art, or Music). One hour lecture and four hours studio activity per week. Materials fee required.

ART 4500. Advanced Art Laboratory. Units: 2

Advanced art production in any chosen studio art area. Students develop self-directed research, experimentation, and practice in close consultation with the professor. Art production maintains best practices in studios and laboratories in methods, materials, operating equipment, and health and safety practices. May be taken up to 3 times for a total of 6 units. Department consent required. Materials fee required.

ART 4530. Art Writing. Units: 3

Semester Prerequisite: ART 1150 or consent of instructor. Quarter Prerequisite: Completion of the upper-division writing requirement and eight units of upper-division Visual Studies or Art History
This project-based learning course explores critical and creative approaches to writing about art, multiple perspectives on interpreting and analyzing art, and the interrelated processes of writing, editing, and publishing. The course will proceed from foundations in writing and editing to a more in-depth analysis of the craft and includes the initiation, development, and completion of a full-fledged student-led publication project. May be taken 2 times for a maximum of 6 units. One hour lecture and four hours of studio activity per week. Materials fee required.

ART 5500. Undergraduate Professional Practices. Units: 3

Semester Prerequisite: Senior standing or consent of instructor
Preparation and documentation of a portfolio and ancillary materials that is representative of the student's work. Additional research about opportunities, resources, and further professional development. Formerly ART 416. Graded Credit/No-Credit. Materials fee required.

ART 5510. BFA Project. Units: 3

Quarter Prerequisite: Art major Plan I or II, senior status and 10 units of advanced level studio coursework, or consent of instructor
Preparation and completion of individual project or exhibition supplemented by interdisciplinary critiques, readings, research, visiting speakers, and discussions relevant to contemporary ideas and issues in art. Materials fee required. Formerly known as ART 414.

ART 5540. Social Practice and Participatory Art. Units: 3

Semester Prerequisite: Must be junior or senior standing in the Visual Studies concentration or by consent of instructor
In this advanced course, students will apply what was learned in Visual Studies and Studio Art courses to develop and create original projects in the area of social practice or participatory art. Students will be guided to consider context and media and to thoughtfully integrate viewers and communities as part of the visual art experience. May be taken twice for a total of 6 units. One hour of lecture and 4 hours of activity. Materials fee required.

ART 5550. Capstone: Visual Studies Project. Units: 3

In this culminating course in the Visual Studies track, students will develop a comprehensive project in the discipline. Projects may include community-based research in the arts, curriculum in the arts, a research paper on art pedagogy or art and public policy, or a related project of student's choosing. Students will be supported in the process of designing and implanting project and participate in reflective feedback and peer review to support the evolution of each project. Materials fee required.

ART 5750. Internship in Art - Reflection Component. Unit: 1

Semester Prerequisite: Junior or senior standing. Prerequisite: Junior or senior standing
Semester Corequisite: ART 5751, 5752 or 5753
Guided reflection on the internship experience to support deeper learning and personal growth. Students will participate in guided reflections and the opportunity to discuss issues and questions. May be offered in person or online. May be taken twice for up to 2 units.

ART 5751. Internship in Art. Unit: 1

Semester Prerequisite: Consent of instructor
Semester Corequisite: ART 5750
Supervised learning on-site with work in a business, artist, local community partner, private or another relevant project in public setting which provides professional experience in the field. May be taken 2 times for a maximum of 2 units. Formerly offered as ART 575A. Materials fee required.

ART 5752. Internship in Art. Units: 2

Semester Prerequisite: Consent of instructor
Semester Corequisite: ART 5750
Supervised learning on-site with a business, artist, local community partner, or other relevant projects in the field. May be taken 2 times for a maximum of 4 units. Formerly offered as ART 575B. Materials fee required.

ART 5753. Internship in Art. Units: 3

Semester Prerequisite: consent of instructor
Semester Corequisite: ART 5750
Supervised learning on-site with a business, artist, local community partner, or other relevant projects in the field. May be taken 2 times for a maximum of 6 units. Formerly offered as ART 575C. Materials fee required.

ART 5951. Independent Study. Unit: 1

Quarter Prerequisite: a minimum overall grade point average of 3
Academic or community-based research in the arts and/or visual studies conducted under the direction of a faculty member. May be repeated for credit, a total of 6 units may apply toward graduation. Enrollment is dependent on the consent of instructor and departmental approval of a written proposal of a project submitted by the student in advance of course. Formerly offered as Art 595A. Materials fee required.

ART 5952. Independent Study. Units: 2

Academic or community-based research in the arts and/or visual studies conducted under the direction of a faculty member. Enrollment is dependent on the consent of instructor and departmental approval of a written proposal of a project submitted by the student in advance of course. May be repeated for credit for up to 6 units. Formerly ART 595B. Materials fee required.

ART 5953. Independent Study. Units: 3

Academic or community-based research in the arts and/or visual studies conducted under the direction of a faculty member. Enrollment is dependent on the consent of instructor and departmental approval of a written proposal of a project submitted by the student in advance of course. May be repeated for credit for up to 9 units. Formerly ART 595C. Materials fee required.

ART 6604. MFA Graduate Studio in Art. Units: 3

Semester Prerequisite: Must be enrolled in the MFA in Studio Art program. Quarter Prerequisite: admission to the MFA in Studio Art program
Investigation of advanced studio problems focusing on the development of individual directions. May be taken 5 times for up to 15 units. Graded Credit/No credit. One hour discussion and four hours of activity. Materials fee required.

ART 6610. MA Graduate Studio in Art. Units: 3

Semester Prerequisite: Must be enrolled in the MA in Art program
Investigation of advanced studio problems focusing on the development of individual directions. May be taken 5 times for up to 15 units. Graded Credit/No credit. One hour discussion and four hours of activity. Materials fee required.

ART 6612. MA Graduate Critique. Units: 3

Semester Prerequisite: Must be enrolled in the MA in Art program
Weekly critique and discussion of individual student work. May be repeated for credit 5 times for up to 15 units. Materials fee required.

ART 6617. Graduate Seminar in Critical Theory and Methodology. Units: 3

Quarter Prerequisite: admission to the MFA in Studio Art or the MA in Art, Studio Art
Theoretical, critical and methodological approaches with emphasis on contemporary visual arts. Materials fee required. Formerly offered as ART 617.

ART 6618. Graduate Seminar in Contemporary Art Issues and Practices. Units: 3

Quarter Prerequisite: admission to the MA in Art, Studio Art or MFA in Studio Art
Current issues and practices and their relevance to contemporary artists. Materials fee required. Formerly offered as ART 618.

ART 6620. MFA Graduate Studio Critique. Units: 3

Semester Prerequisite: Must be enrolled in the MFA in Studio Art program. Quarter Prerequisite: admission to the MFA in Studio Art program
Weekly critique and discussion of individual student work. May be repeated for credit 6 times for up to 18 units. Materials fee required.

ART 6630. Graduate Seminar in Professional Practices. Units: 3

Portfolio development and selection of art markets; legal and financial issues in the production and protection of art; teaching practicum and creation of teaching philosophy and postgraduate professional development. Writing an extended artist's statement that fulfills the graduate writing requirement. Formerly offered as ART 630 and ART 670. Materials fee required.

ART 6685. Master's Project in Art- MA. Units: 3

Preparation for and completion of culminating body of artwork produced by student in the M.A. in Art program. A report and documentation of the project is required.

ART 6695. Master's Project in Studio Art-MFA. Units: 3

Quarter Prerequisite: successful completion of advancement review conducted by the Department of Art graduate committee
Preparation for and completion of culminating exhibition of works produced by student in the M.F.A. in Studio Art program. A report, presentation and documentation of the project is required. Open only to students who have been advanced to candidacy. Formerly offered as ART 695E.

ART 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ART 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ART 6992. Continuous Enrollment for Graduate Candidacy Standing. Units: 2

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ART 6993. Continuous Enrollment for Graduate Candidacy Standing. Units: 3

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ART 6994. Continuous Enrollment for Graduate Candidacy Standing. Units: 4

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ART 6995. Continuous Enrollment for Graduate Candidacy Standing. Units: 5

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ART 6996. Continuous Enrollment for Graduate Candidacy Standing. Units: 6

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

Aerospace Studies (AS)

Courses

AS 1001. Heritage and Values I. Unit: 1

Provides an introduction to the Air Force. The course allows students to examine general aspects of the Department of the Air Force, AF Leadership, Air Force benefits, and opportunities for Air Force officers. The course also lays the foundation for becoming an Airman by outlining our heritage and values. As a foundational course, AS1001 also provides a historical perspective such as lessons on war and US military, AF operations, principles of war, and airpower. As a whole, this course provides students with a knowledge-level understanding for the employment of air and space power, from an institutional, doctrinal, and historical perspective.

AS 1002. Heritage and Values II. Unit: 1

Continuation of AS1001; AFROTC cadets must register for Leadership Laboratory AS5001, as it complements this course with followership/ leadership experience.

AS 2001. Team and Leadership Fundamentals I. Unit: 1

Designed to provide a fundamental understanding of both leadership and team building. This course will discuss techniques such for improving communication, leadership basics and ethics. Students will participate in case studies of leadership and management situations as a means of demonstrating and exercising practical application of concepts.

AS 2002. Team and Leadership Fundamentals II. Unit: 1

Continuation of AS2001; AFROTC cadets must register for Leadership Laboratory AS5001, as it complements this course with followership/ leadership experience.

AS 3001. Leading People/Effective Communication I. Units: 3

This course is designed to build on the leadership fundamentals taught in AS2001. The goal is for students to have a more in-depth understanding of how to effectively lead people, and provide them with the tools to use throughout their lives and detachment leadership roles. Secondly, students will hone their writing and briefing skills to prepare them for public speaking. The course continues into advanced skills and ethics training that will prepare them for becoming an officer and supervisors.

AS 3002. Leading People/Effective Communication II. Units: 3

Continuation of AS3001; AFROTC cadets must register for Leadership Laboratory AS5001, as it complements this course with followership/ leadership experience.

AS 4001. National Security/Leadership Responsibilities/Commissioning Preparation I. Units: 3

Course is designed to examine basic elements of national security policy and process. Course will discuss air and space power operations as well as how selected roles of the military in society and current domestic and international issues affect the military profession. Discusses the responsibility, authority, and functions of an Air Force commander and selected provisions of the military justice system. AS 4001 course is designed to prepare cadets for life as a second lieutenant.

AS 4002. National Security/Leadership Responsibilities/Commissioning Preparation II. Units: 3

Continuation of AS4001; AFROTC cadets must register for Leadership Laboratory AS5001, as it complements this course with followership/ leadership experience.

AS 5001. Leadership Laboratory. Units: 0

Mandatory for and limited to Air Force ROTC cadets only. Provides cadets with practical command and staff leadership experiences through performance of various tasks within framework of organized cadet corps. As integral part of Aerospace Studies curriculum, this course provides experiences designed to develop leadership potential and serves as an orientation to active duty.

American Sign Language (ASL)

Courses

ASL 1020Q2S. College ASL II Bridge. Units: 0

Prerequisites: ASL 101 or equivalent

Introduction to the language. Fundamentals of signing and language structure designed to develop the ability to use and understand the language. Bridge course covering the second half of ASL 1111 to allow students to enter ASL 1112.

ASL 1111. American Sign Language I. Units: 3

Introduction to the language. Fundamentals of signing and language structure designed to develop the ability to use and understand the language. Formerly ASL 101. Materials fee required.

ASL 1112. American Sign Language II. Units: 3

Semester Prerequisite: ASL 1111

Students continue to develop their abilities to use Arabic to interact effectively with speakers from a variety of Arab cultures. Course focuses on developing skills in speaking, writing, reading and listening in a variety of everyday sociocultural contexts. Satisfies GE C2/3B, DI, G designations. Materials fee required. Not open to native speakers who attended high school where Arabic is the language of instruction.

Astronomy (ASTR)

Courses

ASTR 1000. Introduction to Planetary Astronomy. Units: 3

A brief history of the development of astronomy followed by modern descriptions of our planetary system, extrasolar systems, and the possibilities of life in the universe. Discussions of methods of extending knowledge of the universe. No previous background in natural sciences is required. Satisfies GE B1/5A.

ASTR 1000L. Introduction to Planetary Astronomy Lab. Unit: 1

Semester Corequisite: ASTR 1000

Laboratory associated with Introduction to Planetary Astronomy (ASTR 1000). Satisfies GE B3/5C. Materials fee required.

ASTR 1001. Introduction to Planetary Astronomy Activity. Unit: 1

Semester Corequisite: ASTR 1000, ASTR 1000L

For physics majors and astronomy minors, this activity section approaches the content of Introduction to Planetary Astronomy (ASTR 1000) and Introduction to Planetary Astronomy Laboratory (ASTR 1000L) with a focus on quantitative understanding of the phenomena.

ASTR 1010. Introduction to Galaxies and Cosmology. Units: 3

A brief history of the development of astronomy followed by modern descriptions of stars, galaxies, and structure, evolution, and eventual fate of the universe. Discussions of methods of extending knowledge of the universe. No previous background in natural sciences is required. Satisfies GE B1/5A.

ASTR 1010L. Introduction to Galaxies and Cosmology Lab. Unit: 1

Semester Corequisite: ASTR 1010

Laboratory associated with Introduction to Galaxies and Cosmology (ASTR 1010). Satisfies GE B3/5C. Materials fee required.

ASTR 1011. Introduction to Galaxies and Cosmology Activity. Unit: 1

Semester Corequisite: ASTR 1010, ASTR 1010L

For physics majors and astronomy minors, this activity section approaches the content of Introduction to Galaxies and Cosmology (ASTR 1010) and Introduction to Galaxies and Cosmology Laboratory (ASTR 1010L) with a focus on quantitative understanding of the phenomena.

ASTR 2300. Introduction to Astronomy for Scientists. Units: 4

Semester Prerequisite: PHYS 2510, 2510L. Prerequisite: PHYS 223, MATH 213

A brief history of the development of astronomy followed by modern physical descriptions of our planetary system, extrasolar systems, stars, galaxies, and models of the universe. Discussions of methods of extending knowledge of the universe. Three hours lecture and three hours laboratory. Materials fee required.

ASTR 3000. Life in the Cosmos. Units: 3

Semester Prerequisite: junior or senior standing, completion of the B1, B2, and B4 general education requirements

Life in the cosmos is discussed using the findings of astronomy, biology, chemistry and physics. Topics include the development of life and its environment, the search for life, interstellar communications and travel, and the effects of contact. Satisfies GE B5/UD-5.

ASTR 3300. Astrophysics of Planetary Systems. Units: 3

Semester Prerequisite: ASTR 1000, ASTR 1000L, ASTR 1000R -or- ASTR 1010, ASTR 1010L, ASTR 1010R

Physical principles of planetary systems and their formation, stellar structure and evolution.

ASTR 3310. Astrophysics of Galaxies and Cosmology. Units: 3

Physical principles of stellar evolution, galactic structure, extragalactic astrophysics, and cosmology. Semester prerequisite: ASTR 1000, ASTR 1000L, ASTR 1000R -or- ASTR 1010, ASTR 1010L, ASTR 1010R.

ASTR 4000. Observational Astronomy. Units: 3

Semester Prerequisite: ASTR 1000, ASTR 1000L, ASTR 1000R -or- ASTR 1010, ASTR 1010L, ASTR 1010R , and PHYS 3300 or other computer programming course

Introduction to the operation of telescopes to image astronomical targets, primarily in the optical range. Topics include night sky motion and coordinate systems; digital imaging, reduction, and analysis; proposal design and review; and observation run planning. Projects include observation and analysis of both pre-determined objects and objects of the students' choosing. Presentations throughout the course using multiple methods of written and oral communication. Satisfies WI designation. One hour lecture, three hours lab and three hours supervision. Night-time observing required.

Biology (BIOL)

Courses

BIOL 1000. Introduction to Biology. Units: 3

Provides a broad introduction of biology, including our molecular-organismic-ecological heritage and the role of humans within the biosphere. Not intended for biology or biochemistry majors. Satisfies GE B2/5B. This course will be offered in person and online each semester.

BIOL 1000L. Introduction to Biology Lab. Unit: 1

Introductory level hands-on observation and experimentation on biological specimens, materials, and models. Not intended for biology and biochemistry majors. Materials fee required. Satisfies GE B3/5C.

BIOL 1010. Biology for Teachers. Units: 4

Survey of major areas of biology including cell biology, genetics, evolution, plant and animal anatomy and physiology, ecology, and behavior. Course content and practices are aligned with the Next Generation Science Standards (NGSS). Specially designed for students interested in teaching grades K-8. Three hours lecture and three hours lab. Materials fee required. Satisfies GE B2/5B and B3/5B.

BIOL 1020. Science, Culture, & Life. Units: 3

An exploration of the connection between science and culture. Employs literature focused on how culture influences science knowledge and the scientific process, such as "Braiding Sweetgrass" by the Native American author Robin Wall Kimmerer. The format of the course will be discussion of the readings based on instructor prompts, reflection essays, and collected descriptions that combine scientific knowledge of plants and their cultural meaning. In the process, the traditional societal definition of what it means to be a scientist will be challenged.

BIOL 2010. Principles of Biology I. Units: 5

Semester Prerequisite: CHEM 2100 with a grade of C or higher
Provides a foundational understanding of 1) the process of life and the universality of life processes at the molecular and cellular level and 2) the principles of Mendelian genetics. Four hours lecture and three hours laboratory. Materials fee required. Satisfies GE B2/5B & B3/5C; this course is not recommended as a GE course for non-STEM majors.

BIOL 2020. Principles of Biology II. Units: 5

Semester Prerequisite: BIOL 2010 with a grade of C (2) or better. Quarter Prerequisite: BIOL 200 and BIOL 201 with a grade of C or better
Introduces diversity, structure and function of all Kingdoms of life. Provides a foundational understanding of the principles of population genetics, evolution and ecology of organisms, populations, and communities. Four hours lecture and three hours laboratory. Materials fee required. When combined with BIOL 2010, this course is equivalent to the previously offered BIOL 200, 201, and 202.

BIOL 2160. Genetics and Society. Units: 3

Technological advances in genetics and their impact on society. Biological and ethical perspectives of the application of genetic research. Satisfies GE B2/5B.

BIOL 2170. Biology of Diseases. Units: 3

The biology, pathogenicity, epidemiology, diagnosis, and treatment of prominent and emerging infectious diseases. Impact of current biotechnology in relation to vaccine development, experimental treatments, and improved diagnostics and screening. Satisfies GE B2/5B.

BIOL 2180. Sustainable Agriculture. Units: 3

Evidence-based comparison of traditional, modern, and sustainable agricultural practices, including plant health, pests and diseases, crop types and yields, food distribution, and food insecurity. Examination of food-related choices in a scientific, ethical, and social context. Satisfies GE B2/5B.

BIOL 2200. Microbiology for Allied Health Majors. Units: 4

Semester Prerequisite: BIOL 1000 strongly recommended. Quarter Prerequisite: one lower-division biology course
Structure, physiology, and classification of bacteria, microbial eukaryotes, and viruses. Rudiments of infection and immunity, and overview of pathogenic microbes. Laboratory training in microscopy, cultivation, and identification of microorganisms. Three hours lecture and three hours laboratory. Materials fee required. Students enrolling in this course for a third time may do so only with the consent of instructor. Formerly BIOL 220; students may not receive credit for both.

BIOL 2230. Human Anatomy and Physiology I for Allied Health Majors. Units: 4

Quarter Prerequisite: BIOL 100 and be declared in one of the following degree options: BS in Nursing, or BS in Health Science, or BS in Nutrition and Food Science, or BS in Kinesiology, or Minor in Kinesiology; or consent of instructor
Covers living chemistry, cells, tissues, integumentary, skeletal, muscular, and nervous systems. Three hours lecture and three hours laboratory. Materials fee required. Previously offered as BIOL 223. Students may not receive credit for both courses. Students enrolling in this course for a third time may do so only with the consent of instructor. This course only satisfies allied health pre-professional requirements and does not fulfill any requirements for the Biology BS degree.

BIOL 2240. Human Anatomy and Physiology II for Allied Health Majors. Units: 4

Semester Prerequisite: BIOL 2230
Covers digestive, nervous, respiratory, cardiovascular, urinary, endocrine, and reproductive systems. Three hours lectures and three hours laboratory. Materials fee required. Satisfies GE B2/5B and B3/5C. This course only satisfies allied health pre-professional requirements and does not fulfill any requirements for the Biology BS degree.

BIOL 3010. Human Ecology. Units: 3

Semester Prerequisite: Junior or senior standing. Quarter Prerequisite: junior or senior standing
Environmental and ecological impacts of the growing human population, taking into consideration the effects of science, technology, and our societal attitudes. Satisfies GE B5/UD-5, and Environmental Sustainability pathway.

BIOL 3030. History of Life on Earth. Units: 3

Semester Prerequisite: Junior or senior standing
History of life on earth and the processes that govern its genesis, evolution, extinction, ecology, and preservation. Offered as BIOL 3030 and GEOL 3030. Satisfies GE B5/UD-5. Students may only receive credit for one of these courses.

BIOL 3050. Human Genetics and Genomics. Units: 3

Structure and function of genes and genomes with an emphasis on humans. Topics covered will include genome organization, gene expression and regulation, analysis of patterns of inheritance, pedigree analysis, mechanisms of genetic variation and the role of genetic variation in the development of human disease, and applications of genomic analysis in precision medicine. This course does not fulfill the Group A requirement for a BS in Biology.

BIOL 3091. Special Studies in Biology. Unit: 1

Investigation, research, or study of a selected topic, the topic title to be specified in advance. May repeat for credit as topics change for a total of 2 units. Instructor consent required. This course does not satisfy any requirements for the undergraduate major in Biology. Formerly BIOL 295A.

BIOL 3092. Special Studies in Biology. Units: 2

Investigation, research, or study of a selected topic, the topic title to be specified in advance. May repeat for credit as topics change, for a total of 4 units. Instructor consent required. This course does not satisfy any requirements for the undergraduate major in Biology. Formerly BIOL 295B.

BIOL 3100. Cell Biology. Units: 4

Semester Prerequisite: BIOL 2020 with a grade of C (2.0) or better, and one of CHEM 2300 with a C (2.0) or better, CHEM 2400 with a C (2.0), or better or CHEM 3400 with a C (2.0) or better

Structure and function of eukaryotic cells and organelles, and their physiological processes at the molecular level, including metabolism, signal transduction, gene regulation, and cell cycle control. Three hours lecture and three hours laboratory. Materials fee required. Satisfies WI designation.

BIOL 3120. Molecular Biology. Units: 4

Semester Prerequisite: BIOL 2020 with a grade of C (2.0) or better; and one of the following: CHEM 2300, CHEM 2400 or CHEM 3400 with a C (2.0) or better. Quarter Prerequisite: BIOL 300 with a grade of C or better and CHEM 223 or CHEM 323

Informational macromolecules, and how they direct molecular processes in both eukaryotic and bacterial cells. Three hours lecture and three hours laboratory. Materials fee required. Formerly offered as BIOL 400; students may not receive credit for both courses.

BIOL 3200. Microbiology. Units: 4

Semester Prerequisite: BIOL 2020 with a grade of C (2.0) or better; Pre- or Co-requisite one of the following: CHEM 2300, CHEM 2400 or CHEM 3400. Quarter Prerequisite: BIOL 300 with a grade of C (2.0) or better

Semester Corequisite: CHEM 2300, CHEM 2400 or CHEM 3400

The structure and function, metabolism, and genetics of microorganisms with an introduction to bacterial, viral, fungal, and protozoan pathogens. Two hours lecture and six hours laboratory. Materials fee required. Formerly offered as BIOL 320; students may not receive credit for both courses. Satisfies GE designation WI.

BIOL 3300. Genetics. Units: 4

Semester Prerequisite: BIOL 2020 with a grade of C (2.0) or better; Pre- or Co-requisite one of the following: CHEM 2300, CHEM 2400 or CHEM 3400

Semester Corequisite: CHEM 2300, CHEM 2400 or CHEM 3400

Principles of heredity and genetic analysis, including underlying molecular mechanisms. Includes current concepts of the organization, function, and regulation of genes. Three hours lecture and three hours laboratory. Materials fee required. Students should not take both this course and BIOL 3320.

BIOL 3320. Genetic Analysis of Model Organisms. Units: 5

Semester Prerequisite: BIOL 2020 with a grade of C (2.0) or better; Pre- or Co-requisite one of the following: CHEM 2300, CHEM 2400 or CHEM 3400

Semester Corequisite: Pre- or Co-requisite one of the following: CHEM 2300, CHEM 2400 or CHEM 3400

Classic and modern approaches to genetics with focus on analysis of gene structure and function using techniques and model organisms more relevant for biomedical research. Topics will include forward and reverse genetics, DNA sequencing, cloning by complementation, positional cloning, and recent advances in genetic analysis. The course covers basic principles of heredity and will fulfill requirements of a general genetics course, but with specific emphasis on using more biomedically-focused techniques and model organisms for analyses. This course is a substitute for the fundamentals of genetics covered in BIOL 3300 but also as a complement in terms of the types of analyses. Students should not take both this course and BIOL 3300. Three hours lecture and six hours laboratory per week. Materials fee required.

BIOL 3400. Comparative Embryology. Units: 3

Semester Prerequisite: BIOL 2020 with a grade of C (2.0) or better; Pre- or Co-requisite one of the following: CHEM 2300, CHEM 2400 or CHEM 3400

Semester Corequisite: CHEM 2300, CHEM 2400 or CHEM 3400

Descriptive survey of developmental patterns of tissue and organ formation to include studies of insects, echinoderms, and amphibian, avian, reptilian, marsupial plus placental mammalian vertebrate embryology. Two hours lecture and three hours laboratory. Materials fee required. BIOL 3420 strongly recommended. Formerly offered as BIOL 340; students may not receive credit for both courses.

BIOL 3410. Biology of Invertebrates. Units: 4

Semester Prerequisite: BIOL 2020 with a grade of C (2.0) or better; Pre- or Co-requisite one of the following: CHEM 2300, CHEM 2400 or CHEM 3400. Quarter Prerequisite: BIOL 300 with a grade of C (2.0) or better

Semester Corequisite: CHEM 2300, CHEM 2400 or CHEM3400

Survey of the major groups of invertebrates, with emphasis on taxonomy, structure, function, reproduction, and evolution. Three hours lecture and three hours laboratory. Materials fee required. Formerly offered as BIOL 331; students may not receive credit for both courses.

BIOL 3420. Comparative Biology of the Vertebrates. Units: 5

Semester Prerequisite: BIOL 2020 with a grade of C (2.0) or better; Pre- or Co-requisite one of the following: CHEM 2300, CHEM 2400 or CHEM 3400. Quarter Prerequisite: BIOL 300 with a grade of C (2.0) or better
Semester Corequisite: CHEM 2300, CHEM 2400 or CHEM 3400
Structural, developmental and ecological changes in the evolution of the chordates and their ancestors, with an emphasis on comparative vertebrate anatomy. Three hours lecture and six hours laboratory. Materials fee required. Formerly offered as BIOL 342; students may not receive credit for both courses.

BIOL 3421. Vertebrate Paleontology. Units: 4

Survey of the origins, evolution, and diversity of major lineages of fossil vertebrates, with emphasis on the use of fossil examples to elucidate patterns of form and function, origins of major groups, development of key structural innovations, and patterns of change and extinction over time. Three hours lecture and three hours laboratory. Equivalent to BIOL 3480; credit cannot be received for both.

BIOL 3430. Mammalogy. Units: 3

Semester Prerequisite: BIOL 2020 with a grade of C (2.0) or better; Pre- or Co-requisite one of the following: CHEM 2300 , CHEM 2400 or CHEM 3400. Quarter Prerequisite: BIOL 300 with grade C (2.0) or better
Semester Corequisite: CHEM 2300, CHEM 2400, or CHEM 3400
Systematics, evolution, morphology, physiology, ecology and behavior of mammals. Two hours lecture and three hours laboratory. Materials fee required. Formerly offered as BIOL 343; students may not receive credit for both courses.

BIOL 3440. Herpetology. Units: 4

Semester Prerequisite: BIOL 2020 with a grade of C (2.0) or better; Pre- or Co-requisite one of the following: CHEM 2300, CHEM 2400, or CHEM 3400. Quarter Prerequisite: BIOL 300 with grad of C (2.0) or better
Semester Corequisite: CHEM 2300, CHEM 2400, or CHEM 3400
Diversity, evolution, morphology, physiology, behavior and ecology of amphibians and reptiles. Two hours lecture and six hours laboratory. Materials fee required. Formerly offered as BIOL 344; students may not receive credit for both courses.

BIOL 3450. Ornithology. Units: 3

Semester Prerequisite: BIOL 2020 with a grade of C (2.0) or better; Pre- or Co-requisite one of the following: CHEM 2300, CHEM 2400, or CHEM 3400. Quarter Prerequisite: BIOL 300 with grade C (2.0) or better
Semester Corequisite: CHEM 2300, CHEM 2400 or CHEM 3400
Introduction to the biology of birds. Course includes study of the functional morphology, ecology and behavior, and the evolutionary relationships among extant taxa. Laboratory exercises will focus on identification and museum studies, coupled with field observations of avian species diversity and associated habitats with an emphasis on resident and migratory species of southern California. Two hours lecture and three hours laboratory. Materials fee required. Formerly offered as BIOL 345; students may not receive credit for both courses.

BIOL 3460. Entomology. Units: 3

Semester Prerequisite: BIOL 2020 with a grade of C (2.0) or better; Pre- or Co-requisite one of the following: CHEM 2300, CHEM 2400, or CHEM 3400. Quarter Prerequisite: BIOL 300 with a grade of C (2.0) or better
Semester Corequisite: CHEM 2300, CHEM 2400 or CHEM 3400
A survey of the anatomy, classification, physiology, ecology, and evolution of the insects. Two hours lecture and three hours laboratory/field studies. Materials fee required. Formerly offered as BIOL 335; students may not receive credit for both courses.

BIOL 3470. Ichthyology. Units: 3

Semester Prerequisite: BIOL 2020 with a grade of C (2.0) or better; Pre- or Co-requisite one of the following: CHEM 2300, CHEM 2400, or CHEM 3400
This course will provide students with an overview and a broad understanding of the biodiversity found within fishes. It will cover topics such as aquaculture, behavior, conservation, ecology, evolutionary relationships and physiology. For the lab component, students will have an opportunity for hands-on studies of morphology, meristics (quantifying features of a fish), species identification, and behavior. They will also address topics related to conservation and policy, and participate in a field trip to the Southern California Marine Institute, where students will observe fishes caught (and released) during a trawl. Overall, this course will provide a unique opportunity for students to learn more about organismal biology using current, real-world approaches. Two hours lecture and three hours laboratory. Materials fee required.

BIOL 3520. Local Flora. Units: 3

Semester Prerequisite: BIOL 2020 with a grade of C (2.0) or better, or consent of instructor. Quarter Prerequisite: BIOL 300 with a grade of C or better or consent of instructor
Identification of the flora and ecological communities of southern California with a consideration of taxonomic principles. One hour lecture, one hour discussion, and three hours laboratory including field collections. Materials fee required. Formerly offered as BIOL 319; students may not receive credit for both courses.

BIOL 3540. Plant Biology and Diversity. Units: 4

Semester Prerequisite: BIOL 2020 with a grade of C (2.0) or better; Pre- or Co-requisite one of the following: CHEM 2300, CHEM 2400, or CHEM 3400. Quarter Prerequisite: BIOL 300 with a grade of C (2.0) or better
Semester Corequisite: CHEM 2300, CHEM 2400, or CHEM 3400
Comparative plant morphology, anatomy, and development, with emphasis on ecological consequences of variation in anatomical traits. Three hours lecture and three hours laboratory. Materials fee required. 2000-level physics course (or equivalent) recommended. Formerly offered as BIOL 354; students may not receive credit for both courses.

BIOL 3560. Plant Physiology. Units: 5

Semester Prerequisite: BIOL 2020 with a grade of C (2.0) or better, and one of the following with a grade of C (2.0) or better: CHEM 2300, CHEM 2400, or CHEM 3400
Comparative analysis of physiological activity in plants at the various levels of cells, tissues, organs and organisms. Three hours lecture and six hours laboratory. Materials fee required. Formerly offered as BIOL 431 and BIOL 4510; students may not receive credit for both courses.

BIOL 3630. Comparative Animal Physiology I. Units: 4

Semester Prerequisite: BIOL 2020 with a grade of C or better
A comparative analysis of the physiologic mechanisms and performance in animals, with emphasis on evolutionary trends in neuronal and musculoskeletal functions. Three hours lecture and three hours laboratory. Materials fee required. 2000-level physics course (or equivalent) recommended. Satisfies WI designation.

BIOL 3640. Comparative Animal Physiology II. Units: 4

Semester Prerequisite: BIOL 2020 with a grade of C or better
A comparative analysis of the physiologic mechanisms and performance in animals, with emphasis on evolutionary trends in cardiorespiratory, osmotic and thermoregulatory functions. Three hours lecture and three hours laboratory. Materials fee required. 2000-level physics course (or equivalent) recommended. Satisfies WI designation.

BIOL 3700. Evolution. Units: 4

Semester Prerequisite: BIOL 2020 with a grade of C (2.0) or better; Pre- or Co-requisite one of the following: CHEM 2300, CHEM 2400, or CHEM 3400. Quarter Prerequisite: BIOL 300 with a grade of C (2.0) or better
Semester Corequisite: CHEM 2300, CHEM 2400, or CHEM 3400
A broad survey of evolutionary biology. Topics include natural selection and adaptation, population genetics, speciation, and the historical patterns in the diversity of life that arise from the evolutionary process. Three hours lecture and one hour of discussion. Formerly offered as BIOL 321; students may not receive credit for both courses.

BIOL 3800. Ecology. Units: 4

Semester Prerequisite: BIOL 2020 with a grade of C (2.0) or better, MATH 1601 with a grade of C (2.0) or better or MATH 2210 with a grade of C (2.0) or better, and Pre- or Co-requisite one of the following: CHEM 2300, CHEM 2400, or CHEM 3400; or consent of instructor. Quarter Prerequisite: BIOL 300 with a grade of C (2.0) or better; and MATH 120, MATH 192 or MATH 211; or consent of instructor
Semester Corequisite: Completion of or concurrent enrollment in CHEM 2300, CHEM 2400 or CHEM 3400
Analysis of the interrelationships of organisms and their physical and biotic environment with a consideration of the role of the environment in natural selection. Three hours lecture and three hours laboratory/field studies. Materials fee required.

BIOL 3820. Microbial Ecology. Units: 4

Semester Prerequisite: BIOL 2020 with a grade of C (2) or better. Quarter Prerequisite: BIOL 202 with a grade of C (2) or better; completion of CHEM 221 or CHEM 321
Semester Corequisite: CHEM 2300, CHEM 2400, or CHEM 3400
An overview of interactions between microorganisms and their environments, and classical and modern methods used to study microbial communities and their ecology. Particular focus will be placed on important roles that microbes play in carbon and nitrogen cycling, and human-microbe interactions. Three hours lecture and three hours lab. Materials fee required.

BIOL 3880. Invasion Biology. Units: 3

Semester Prerequisite: BIOL 2020 with a grade of C (2.0) or better; Pre- or Co-requisite one of the following: CHEM 2300, CHEM 2400, or CHEM 3400. Prerequisite: BIOL 300 with a grade of C (2.0) or better
Semester Corequisite: Completion of or concurrent enrollment in CHEM 2300, CHEM 2400, or CHEM 3400
The study of how exotic species are introduced into a new environment and the impact that they have on that new environment. More specifically, it involves the exploration of the ecology and evolution of invasive species. Through a combination of lectures, discussion and hands-on, research-based approaches, students will: 1) understand how invasive species are being introduced; 2) evaluate and predict under which ecological and evolutionary conditions a species might become invasive; 3) diagnose the impact of invasive species on the surrounding biotic and abiotic environment; 4) collect and analyze data and create a visual representation of species spread; and 5) design a plan for prevention, control and/or eradication of targeted invasive species. Two hours lecture and three hours laboratory/ field studies. Materials fee required.

BIOL 3900. Conservation Biology. Units: 4

Semester Prerequisite: BIOL 2020 with a grade of C (2.0) or better; completion of or concurrent enrollment in CHEM 2300 or CHEM 2400 or CHEM 3400. Quarter Prerequisite: BIOL 300 with a grade of "C" (2.0) or better, and BIOL 321 or 450
Semester Corequisite: CHEM 2300 or CHEM 2400 or CHEM 3400
An examination of factors influencing biological diversity including habitat loss and fragmentation, global climate change, and species extinction. The science of conservation biology is interdisciplinary and has a focus that ranges from genes and populations through ecosystems and global levels of biodiversity. The maintenance and restoration of biodiversity necessarily overlaps with other disciplines including wildlife and resource management, law, economics, and ethics. Formerly offered as BIOL 514 or BIOL 5840; students may not earn credit for both courses. Three hours lecture, one hour discussion.

BIOL 3950. Marine Biology. Units: 4

Semester Prerequisite: BIOL 2020 with a grade of C (2.0) or better; Pre- or Co-requisite one of the following: CHEM 2300, CHEM 2400, or CHEM 3400; or consent of instructor. Prerequisite: BIOL 300 with a grade of C (2.0) or better; or consent of instructor
Semester Corequisite: Completion of or concurrent enrollment in CHEM 2300, CHEM 2400, or CHEM 3400
This course provides students with comprehensive knowledge in marine biology. This course covers taxonomy, ecology, evolution and conservation of marine fauna and flora. During this course, students will obtain training in taxonomical identification, field ecology and management of marine resources. Three hours lecture and three hours laboratory/ field studies. Materials fee required.

BIOL 3961. Directed Study. Unit: 1

Reading and library research in an area of biology conducted under the direction of a faculty member in the Department of Biology. Consent of instructor and departmental approval of a written proposal submitted on a standard application form filed in advance of the semester in which the course is to be taken. May be taken two time for four unit, but no more than two units of BIOL 3961 or BIOL 3962 may be applied toward a biology elective for graduation. Graded credit/no credit. Formerly BIOL 396A.

BIOL 3962. Directed Study. Units: 2

Reading and library research in an area of biology conducted under the direction of a faculty member in the Department of Biology. Consent of instructor and departmental approval of a written proposal submitted on a standard application form filed in advance of the semester in which the course is to be taken. May be taken two time for four units, but no more than two units of BIOL 3961 or BIOL 3962 may be applied toward a biology elective for graduation. Graded credit/no credit. Formerly BIOL 396B.

BIOL 4130. Biology of Stem Cells. Units: 3

Semester Prerequisite: BIOL 2020 with a grade of C (2.0) or better; Pre- or Co-requisite one of the following: CHEM 2300, CHEM 2400 or CHEM 3400

Semester Corequisite: CHEM 2300, CHEM 2400 or CHEM 3400

Examination of fundamental concepts and themes in stem cell-based regenerative medicine: pluripotency and reprogramming, cell types, organ systems, stem cells and therapeutics an ethics. Experimental approaches and emerging areas in stem cell research addressed in seminars from visiting scholars/scientists and with readings from the primary literature. Formerly offered as BIOL 413 and BIOL 3130; students may not receive credit for both courses.

BIOL 4140. Biology of Cancer. Units: 2

Semester Prerequisite: BIOL 2020 with a grade of C (2.0) or better and one of the following: CHEM 2300, CHEM 2400 or CHEM 3400. BIOL 3100, 3120, or BIOL 3300 recommended

Semester Corequisite: One of the following: CHEM 2300, CHEM 2400 or CHEM 3400

A comprehensive survey of the biological principles formulated over time that have established current mechanistic understandings leading to a varied approach to cancer treatment. Topics include the molecular genetics of cancer, factors affecting tumor growth, host defense against cancer cells, environmental and lifestyle carcinogens and modern therapeutic protocols. Formerly offered as BIOL 3140; students may not receive credit for both courses.

BIOL 4210. Medical Microbiology. Units: 4

Semester Prerequisite: BIOL 3200

An overview of topics and lab techniques in medical microbiology, emphasizing the biology of medically relevant bacteria, viruses, fungi, and protozoa. The course will focus on the host-pathogen interaction, including the actions of the pathogenic microorganism and the immune response, as well as the overall host microbiome as an ecosystem perturbed by infection. Three hours of lecture and three hours laboratory. Formerly BIOL 4200, students may not earn credit for both. Materials fee required.

BIOL 4270. Functional Microbial Genomics. Units: 5

Semester Prerequisite: BIOL 3100 with a grade of C or better, or BIOL 3200 with a grade of C or better

Training in microbiology and molecular biology laboratory skills, biotechnology research, and the broader concepts of genomics and genome database/bioinformatics/cyber infrastructure applications. Students will participate in authentic/original research- attempting to duplicate that in faculty labs but in a classroom setting. Mastering the process of science will be stressed. This will include an emphasis on experimental design, research material preparation, critical thinking, data analysis, real-life research problem solving, and iterative learning. BIOL 3120 recommended. Three hours lecture and six hours laboratory. Materials fee required. Formerly offered as BIOL 427; students may not receive credit for both courses.

BIOL 4400. Developmental Biology. Units: 4

Semester Prerequisite: BIOL 3100 or BIOL 3120 or BIOL 3200 or BIOL 3300. Quarter Prerequisite: BIOL 300 with a grade of C or better, and CHEM 223 or 323

Comparative analysis of patterns and processes of development of organisms, with emphasis on the role of genetic and biochemical mechanisms. Three hours lecture and three hours laboratory. Materials fee required. Formerly offered as BIOL 440; students may not receive credit for both courses.

BIOL 4580. Medical and Economic Botany. Units: 3

Semester Prerequisite: One of the following: BIOL 3700, BIOL 3800, or BIOL 3900; and one of the following: CHEM 2300, CHEM 2400, or CHEM 3400. Quarter Prerequisite: BIOL 300 with a grade of C (2.0) or better

Survey of medically and economically important plant species and families. Includes plants harmful and beneficial to humans, with emphasis on vascular species. Formerly offered as BIOL 380; students may not earn credit for both courses.

BIOL 4630. Human Anatomy and Physiology I. Units: 5

Semester Prerequisite: BIOL 2020 with a grade of C (2.0) or better. Quarter Prerequisite: BIOL 300 with a grade of C or better

Semester Corequisite: One of the following: CHEM 2300, CHEM 2400, or CHEM 3400

Comprehensive study of the human form and function in the broader context of vertebrate animals, and select case studies of human pathologies. Course covers early development and the anatomy and physiology of the integumentary, skeletal, muscular, and nervous systems, and the special senses. Four hours lecture and three hours laboratory. Materials fee required. When combined with BIOL 4640, this course is equivalent to the previously offered BIOL 323 and BIOL 324. Students may not receive credit for both this course and either BIOL 323 or BIOL 324.

BIOL 4640. Human Anatomy and Physiology II. Units: 5

Semester Prerequisite: BIOL 4630 with a grade of C or better; or consent of instructor. Quarter Prerequisite: BIOL 300 with a grade of C or better
Comprehensive study of the human form and function in the broader context of vertebrate animals, and select case studies of human pathologies. Course covers early development and the anatomy and physiology of the digestive, respiratory, cardiovascular, excretory, reproductive, and endocrine systems. Four hours lecture and three hours laboratory. Materials fee required. When combined with BIOL 4630, this course is equivalent to the previously offered BIOL 323 and 324. Students may not receive credit for both this course and either BIOL 323 or BIOL 324.

BIOL 4650. Human Anatomy for Biology Majors. Units: 5

Semester Prerequisite: Completion of either PHYS 2000 or PHYS 2500 with a 'C' (2.0) or better, and completion of BIOL 2020 with a 'B' (3.0) or better or completion of any 3000 level Biology course with a 'C' (2.0) or better
Comprehensive study of the human form in the broader context of vertebrate animals. Topics include the anatomy of early development and the following systems: integumentary, skeletal, muscular, nervous, digestive, respiratory, cardiovascular, excretory, reproductive, endocrine and special senses. Four hours lecture and three hours laboratory. Students that have taken either BIOL 323 or BIOL 4630 and BIOL 4640 may not take this course as an elective in the BIOL major. Materials fee required.

BIOL 4901. Special Topics. Unit: 1

Semester Prerequisite: BIOL 2020 with a grade of C (2) or better. Quarter Prerequisite: BIOL 300 with a grade of C (2) or better
Semester Corequisite: CHEM 2300 or CHEM 2400 or CHEM 3400
Group study of a selected topic, the title to be specified in advance. Can be taken a maximum of four times for a total of four units as topics change. Formerly 490A.

BIOL 4902. Special Topics. Units: 2

Group study of a selected topic, the title to be specified in advance. May be taken four times for eight units, as topics change.

BIOL 4903. Special Topics. Units: 3

Semester Prerequisite: BIOL 2020 with a grade of C or better; completion of or concurrent enrollment in CHEM 2300 or CHEM 2400. Quarter Prerequisite: BIOL 300 with a grade of C or better
Group study of a selected topic, the title to be specified in advance. May be repeated up to four times for credit as topics change. Formerly BIOL 490C.

BIOL 4911. Special Laboratory Topics. Unit: 1

Semester Prerequisite: BIOL 2020 with a grade of C (2.0) or better; completion of or concurrent enrollment in CHEM 2300 or CHEM 2400 or CHEM 3400
Semester Corequisite: CHEM 2300 or CHEM 2400 or CHEM 3400
Group laboratory study of a selected topic, the title to be specified in advance. Materials fee required. Can be taken a maximum of four times for a total of four units as topics change. Formerly BIOL 491A.

BIOL 4912. Special Laboratory Topics. Units: 2

Semester Prerequisite: BIOL 2020 with a grade of C or better. Quarter Prerequisite: BIOL 300 with a grade of C or better and 15 units of upper-division biology course work
Semester Corequisite: CHEM 2300 or CHEM 2400 or CHEM 3400
Group laboratory study of a selected topic, the title to be specified in advance. May be repeated up to four times for credit as topics change. Materials fee required. Can be taken a maximum of four times for a total of eight units. Formerly BIOL 491B.

BIOL 4990. Readings in Biology. Unit: 1

Semester Prerequisite: BIOL 2020 with a grade of C or better. Quarter Prerequisite: BIOL 200, 201, 202 and 300
Group study of topics of current biological interest, involving analysis of the primary literature and presentations by students. May be taken up to four times but students may only earn credit toward the major once. Instructor consent required. Graded credit/no credit. Formerly BIOL 391.

BIOL 5000. Biology Colloquium. Unit: 1

Semester Prerequisite: BIOL 2020 with a grade of C or better, or graduate standing in Biology
Topics of current biological interest, presented by students, faculty, and guest speakers. Discussion of primary research associated with presentation topics, including how the research relates to broader topics in Biology. May be taken once for credit toward the B.S. in Biology; may be taken twice for credit toward the elective requirement of the Master of Science in Biology. Graded credit/no credit.

BIOL 5010. Ethics in Biological Research. Unit: 1

Quarter Prerequisite: Graduate or senior standing in Biology
Ethical issues related to biological research. Covers use of animals and humans as research subjects, conservation and cultural issues, intellectual property, authorship, and research misconduct. It includes basic Research Ethics, also known as Responsible Conduct of Research, and meets the Responsible Conduct of Research training requirements for NIH and NSF grants.

BIOL 5050. Biostatistics and Experimental Design. Units: 4

Semester Prerequisite: MATH 1601 or MATH 2210, BIOL 2020 with a grade of C or better, or consent of instructor. Quarter Prerequisite: BIOL 300 with a grade of "C" or better, MATH 192 or 211, and consent of instructor
Provides an understanding of the design of biological experiments and analysis of data. Topics will include experimental design and sampling protocols, techniques for displaying and describing data, probability, and hypothesis testing. The course surveys statistical approaches to the analysis of proportions and frequencies, comparisons of means among numerical variables, regression, correlation, analysis of variance, as well as non-parametric approaches. Department consent required. Three hours lecture and three hours laboratory.

BIOL 5100. Experimental Cellular Analysis. Units: 4

Semester Prerequisite: BIOL 3100 with a grade of C or better; or graduate standing in Biology; or consent of instructor. Quarter Prerequisite: BIOL 300 with a grade of C or better; or graduate standing in Biology; or consent of instructor

Laboratory techniques for examining and manipulating cells, including genetic, biochemical, imaging, and viability assays. This course will integrate core principles of cell biology and biochemistry with an emphasis on experimental design, execution, interpretation, and presentation. Two hours lecture and six hours laboratory. Materials fee required.

BIOL 5130. Animal Tissue Culture. Units: 3

Semester Prerequisite: BIOL 3100 with a grade of C or better, or graduate standing in Biology. Quarter Prerequisite: BIOL 300 with a grade of C or better

Theory and concepts of animal tissue culture including fundamentals of tissue culture techniques, sub-culturing and maintenance of cell lines. Strong emphasis on stem cell technology. One hour lecture and four hours laboratory. Materials fee required. Formerly offered as BIOL 513; students may not earn credit for both courses.

BIOL 5150. Neurobiology. Units: 3

Semester Prerequisite: One of the following courses with a grade of C or better: BIOL 3100, BIOL 3120, BIOL 3200, or BIOL 3300; or graduate standing in Biology. Quarter Prerequisite: BIOL 300 with a grade of C or better

Study of the structure, physiology, and pharmacology of the nervous system. Mechanisms of cellular communication, perception of sensory information, endocrine function, motor control, development, and learning and memory in the nervous system will be examined. Formerly offered as BIOL 580; students may not receive credit for both courses.

BIOL 5160. Introduction to Regulatory Affairs in the Life Sciences. Units: 2

Semester Prerequisite: BIOL 5130. Quarter Prerequisite: BIOL 300 with a grade of "C" or better and consent of the instructor

Introduces the pharmaceutical, biotechnology, and biologics industries and the laws and regulations related to these products. Discussion of company organization, product development, and commercialization-associated activities. Consent of Instructor required. Formerly offered as BIOL 516; students may not earn credit for both courses.

BIOL 5170. Human Embryonic Stem Cell Culture Methods. Units: 2

Semester Prerequisite: BIOL 5130. Quarter Prerequisite: BIOL 300 with a grade of "C" or better and consent of instructor

Advanced laboratory training in plating and passaging of human embryonic stem cells and human induced pluripotent stem cells. Mastery of a variety of cell culture techniques including isolation and culturing techniques including isolation and culturing of mouse embryonic fibroblasts, PCR and flow cytometry and immunohistochemistry on human embryonic stem cells and embryoid bodies. One hour of lecture and three hours of lab. Consent of Instructor required. Materials fee required. Formerly offered as BIOL 517; students may not earn credit for both courses.

BIOL 5200. Tropical Biology. Units: 4

Semester Prerequisite: One of the following: BIOL 3430, 3440, 3450, 3460, 3700, BIOL 3800, or BIOL 3900; and one of the following: CHEM 2300, CHEM 2400, or CHEM 3400

Study of terrestrial tropical ecosystems, focusing on animal diversity, the relationships between organisms and environment, and comparisons with temperate ecosystems. Students engage in field methodology to address an ecological research question. A field trip to Costa Rica required during the term at student expense. Three hours lecture and three hours laboratory. Materials fee required.

BIOL 5260. Genomics. Units: 4

Semester Prerequisite: Graduate standing in Biology, or one of the following courses with a grade of C or better: BIOL 3100, BIOL 3120, BIOL 3200, or BIOL 3300. Quarter Prerequisite: BIOL 300 with a grade of C or better

Overview of the history of genomics and its current applications. Topics covered will include genome sequencing, assembly, annotation, and analysis; transcriptomics and proteomics. Three hours lecture and three hours lab. Materials fee required.

BIOL 5280. Advanced Molecular Genetics. Units: 3

Semester Prerequisite: One of the following courses with a grade of C or better: BIOL 3100, BIOL 3120, BIOL 3200, or BIOL 3300; or graduate standing in Biology. Quarter Prerequisite: BIOL 300 with a grade of C or better, BIOL 400, 423, and CHEM 223 or 323

Examination of modern molecular techniques applied to genetics research in common model organisms, including transgenesis, gene targeting/replacement, temporal-spatial control of gene expression, and in situ and genome-wide expression analysis. Formerly offered as BIOL 528; students may not receive credit for both courses.

BIOL 5300. Microscopy. Units: 3

Semester Prerequisite: senior standing or consent of instructor. Quarter Prerequisite: senior standing and consent of instructor

Theory and techniques of modern microscopy. Lectures on theory of optics and imaging for several types of microscopes (Light microscope, fluorescence microscope, confocal microscope, scanning probe microscope, and electron microscope). Laboratory includes hands-on training in the technical aspects of specimen preparation and microscope use. Two hours lecture and three hours laboratory. Formerly offered as BIOL/GEOL 530, students may not receive credit for both courses. Offered as GEOL 5300 and BIOL 5300. Students may not receive credit for both. Materials fee required.

BIOL 5310. Advanced Molecular Techniques. Units: 4

Semester Prerequisite: BIOL 3120 with a grade of C or better, or graduate standing in Biology. Quarter Prerequisite: BIOL 300 with a grade of C or better and BIOL 400

Techniques utilized in molecular research and biotechnology. Methods for isolating and analyzing molecules of life, including DNA, RNA, and protein will be carried out in the context of an advanced molecular research project. A final research report will be required from the student. Two hours lecture and six hours laboratory. Materials fee required. This course incorporates portions of BIOL 502 and BIOL 592; students may not receive credit both BIOL 592 and BIOL 5310.

BIOL 5320. Virology. Units: 4

Semester Prerequisite: One of the following courses with a grade of C (2.0) or better: BIOL 3100, BIOL 3120, BIOL 3200, or BIOL 3300. Quarter Prerequisite: BIOL 400 with a grade of "C" (2.0) or better
Examination of the structure, genetics and modes of replication of viruses, viroids, and other related sub-cellular entities; their implications in medicine; and their use in scientific research. Virological methods such as infection and plaque assays will be carried out in the context of an advanced virology research project. Three hours lecture and three hours laboratory. Formerly offered as BIOL 572; students may not receive credit for both courses. Materials fee required.

BIOL 5330. Biotechnology Practicum. Units: 5

Semester Prerequisite: BIOL 3100 with a grade of C (2.0) or better and either BIOL 3120, BIOL 3200 with grades of C (2.0) or better; or CHEM 4100/4100L; or graduate standing; or permission of instructor. Prerequisite: BIOL 300 with grade of C (2.0) or better, plus 15 additional units of upper-division Biology; or permission of instructor
Laboratory principles and procedures useful to students interested in a research or industry career. Laboratory exercises will emphasize preparation of useful biotechnological products, including cells and purified enzymes. Students will take an active role in planning experiments, including preparing required solutions, reagents, and materials. Students will evaluate and report the quality of products they produce, measuring abundance, purity, and potency. Three hours lecture and six hours laboratory. Materials fee required.

BIOL 5380. Immunology. Units: 4

Semester Prerequisite: BIOL 3120 and either BIOL 3100 or BIOL 3200; or graduate standing in Biology; or consent of instructor
Foundations of immunology and current advances in the study of the immunological response. Laboratory examination of immunological assays applied in both research and clinical diagnostics. Three hours lecture and three hours laboratory. Formerly offed as BIOL 5370, students may not earn credit for both. Materials fee required.

BIOL 5420. Advanced Vertebrate Morphology. Units: 3

Semester Prerequisite: BIOL 3420 with a grade of C or better, or graduate standing in Biology. Quarter Prerequisite: BIOL 342, BIOL 424 and consent of instructor
Advanced techniques in the study of vertebrates, including dissection and specimen preparation. Lecture sessions on advanced topics in vertebrate anatomy and recent research advances. Lab activities include construction of animal skeletal materials, detailed study and dissection of vertebrate organ systems, and individual student designed projects. Projects consist of both laboratory projects under the guidance of instructor and problem-based learning activities that are conducted both in the laboratory and in open activity time with small student groups. (Highly recommended to students planning on applying to PBL veterinary professional programs.) Two hours lecture and three hours laboratory. Materials fee required. BIOL 3630 or BIOL 3640 recommended. Formerly offered as BIOL 524; students may not receive credit for both courses.

BIOL 5550. Comparative Biomechanics. Units: 4

Semester Prerequisite: Completion of either PHYS 2000 or PHYS 2500 with a 'C' (2.0) or better AND at least ONE of the following with a 'C' (2.0) or better: BIOL 3400, BIOL 3410, BIOL 3420, BIOL 3430, BIOL 3440, BIOL 3450, BIOL 3460, BIOL 3480,BIOL 3630, BIOL 3700, BIOL 3800, BIOL 3950; or graduate standing in Biology
Examination and quantitative analysis of structure and function of animals and plants using physical principles. Application of fluid and solid mechanics in the study of biologic materials. Three hours lecture and three hours laboratory.

BIOL 5670. Endocrinology. Units: 3

Semester Prerequisite: BIOL 3100 with a grade of C or better; or graduate standing in Biology. Quarter Prerequisite: BIOL 300 with a grade of C or better
Endocrine systems with emphasis on mechanisms for regulating the biosynthesis, secretion, transport, and actions of hormones. Formerly offered as BIOL 576; students may not receive credit for both courses.

BIOL 5720. Population Genetics. Units: 4

Semester Prerequisite: MATH 1601 with a grade of C or better or MATH 2210 with a grade of C or better and either BIOL 3700 with a grade of C or better or BIOL 3800 with a grade of C or better; or graduate standing in Biology. Quarter Prerequisite: BIOL 423 and MATH 192 or 211
Focuses on evolution at the genetic level including the description of genetic variation within and among populations and the evolutionary forces that can act on this variation over time. Three hours lecture, one hour discussion.

BIOL 5752. Internship in Biology. Units: 2

Supervised work and study in work situations involving biological research and technical skills. May be repeated for a total of six units. Only two units of internship courses (BIOL 5752-5752G) may be applied towards the biology major requirements. Consent of Instructor required. Graded credit/no credit. Formerly BIOL 575A.

BIOL 5752B. Internship in Biology: Pre-Health. Units: 2

Supervised work and study in work situations involving biological research and technical skills. May be repeated for a total of six units. Only two units of internship courses (BIOL 5752-5752G) may be applied towards the biology major requirements. Consent of Instructor required. Graded credit/no credit. Formerly BIOL 575B.

BIOL 5752C. Internship in Biology: Biotechnology. Units: 2

Supervised work and study in work situations involving biological research and technical skills. May be repeated for a total of six units. Only two units of internship courses (BIOL 5752-5752G) may be applied towards the biology major requirements. Consent of Instructor required. Graded credit/no credit. Formerly BIOL 575C.

BIOL 5752D. Internship in Biology: Wildlife Biology. Units: 2

Supervised work and study in work situations involving biological research and technical skills. May be repeated for a total of six units. Only two units of internship courses (BIOL 5752-5752G) may be applied towards the biology major requirements. Consent of Instructor required. Graded credit/no credit. Formerly BIOL 575D.

BIOL 5752E. Internship in Biology: Botany. Units: 2

Supervised work and study in work situations involving biological research and technical skills. May be repeated for a total of six units. Only two units of internship courses (BIOL 5752-5752G) may be applied towards the biology major requirements. Consent of Instructor required. Graded credit/no credit. Formerly BIOL 575E.

BIOL 5752F. Internship in Biology: Science Education. Units: 2

Supervised work and study in work situations involving biological research and technical skills. May be repeated for a total of six units. Only two units of internship courses (BIOL 5752-5752G) may be applied towards the biology major requirements. Consent of Instructor required. Graded credit/no credit. Formerly BIOL 575F.

BIOL 5752G. Internship in Biology: Museum Science. Units: 2

Supervised work and study in work situations involving biological research and technical skills. May be repeated for a total of six units. Only two units of internship courses (BIOL 5752-5752G) may be applied towards the biology major requirements. Consent of Instructor required. Graded credit/no credit. Formerly BIOL 575G.

BIOL 5820. Vertebrate Field Biology. Units: 3

Semester Prerequisite: BIOL 3700 with a grade of C or better, or BIOL 3800 with a grade of C or better, or graduate standing in Biology, or consent of instructor. Quarter Prerequisite: BIOL 300 with a grade of C or better, BIOL 450

Field study of the ecology and natural history of the vertebrate fauna of southern California. One hour lecture and six hours laboratory/field work. Materials fee required. Formerly offered as BIOL 525; students may not receive credit for both courses.

BIOL 5850. Global Change Biology. Units: 3

Semester Prerequisite: BIOL 3800 with a grade of C or better, or graduate standing in Biology, or consent of instructor. Quarter Prerequisite: BIOL 300 with a grade of "C" or better, and an upper-division lab course in ecology (BIOL 349, BIOL 450, or BIOL 455) or consent of instructor

An examination of changing ecological and biogeochemical processes at selected times in the earth's history including, but not limited to, the modern era. Exploration of causes and consequences of contemporary global change for biological systems including displaced populations, disrupted ecological interactions, and altered epidemiological patterns. Formerly offered as BIOL 515; students may not earn credit for both courses.

BIOL 5860. Physiological Ecology. Units: 4

Semester Prerequisite: One of the following with a grade of C or better: BIOL 3630, BIOL 3640, or BIOL 4510; or graduate standing in Biology; or consent of instructor. Quarter Prerequisite: BIOL 354 and 424; or 431 and either 331 or 342; and 450

Study of physiological, morphological, and behavioral responses of organisms to physical environmental factors such as temperature, light, salinity, and altitude. Three hours lecture and three hours laboratory. Materials fee required. Formerly offered as BIOL 565; students may not receive credit for both courses.

BIOL 5901. Senior Seminar: Molecular Biology. Units: 2

Semester Prerequisite: At least 90 semester units and BIOL 3120 with a grade of C or better; or graduate standing in Biology; or consent of instructor. Quarter Prerequisite: BIOL 300 with a grade of C or better, and a minimum of 15 upper-division units in biology courses and at least 135 quarter units

Survey of current literature, methods and ethics of scientific inquiry in molecular biology. Formerly BIOL 590A.

BIOL 5902. Senior Seminar: Biosystematics. Units: 2

Semester Prerequisite: At least 90 semester units and either BIOL 3300 with a C or better or BIOL 3700 with a C or better; or graduate standing in Biology; or consent of instructor. Quarter Prerequisite: BIOL 300 with a grade of C or better, and a minimum of 15 upper-division units in biology courses and at least 135 quarter units

Survey of current literature, methods and ethics of scientific inquiry in biosystematics. Formerly BIOL 590B.

BIOL 5903. Senior Seminar: Cell Biology. Units: 2

Semester Prerequisite: At least 90 semester units and BIOL 3100 with a grade of C or better; or graduate standing in Biology; or consent of instructor. Quarter Prerequisite: BIOL 300 with a grade of C or better, and a minimum of 15 upper-division units in biology courses and at least 135 quarter units

Survey of current literature, methods and ethics of scientific inquiry in cell biology. Formerly BIOL 590C.

BIOL 5904. Senior Seminar: Physiology. Units: 2

Semester Prerequisite: At least 90 semester units or graduate standing in Biology, or consent of instructor. Quarter Prerequisite: BIOL 300 with a grade of C or better, and a minimum of 15 upper-division units in biology courses and at least 135 quarter units

Survey of current literature, methods and ethics of scientific inquiry in physiology. Formerly BIOL 590D.

BIOL 5905. Senior Seminar: Ecology. Units: 2

Semester Prerequisite: At least 90 semester units and BIOL 3800 with a grade of C or better; or graduate standing in Biology; or consent of instructor. Quarter Prerequisite: BIOL 300 with a grade of C or better, and a minimum of 15 upper-division units in biology courses and at least 135 quarter units

Survey of current literature, methods and ethics of scientific inquiry in ecology. Formerly BIOL 590E.

BIOL 5906. Senior Seminar: Genetics. Units: 2

Semester Prerequisite: At least 90 semester units and BIOL 3300 with a graded of C or better; or graduate standing in Biology; or consent of instructor. Quarter Prerequisite: BIOL 300 with a grade of C or better, and a minimum of 15 upper-division units in biology courses and at least 135 quarter units

Survey of current literature, methods and ethics of scientific inquiry in genetics. Formerly BIOL 590G.

BIOL 5907. Senior Seminar: Evolution. Units: 2

Semester Prerequisite: At least 90 semester units and BIOL 3700 with a grade of C or better; or graduate standing in Biology; or consent of instructor. Quarter Prerequisite: BIOL 300 with a grade of C or better, and a minimum of 15 upper-division units in biology courses and at least 135 quarter units

Survey of current literature, methods and ethics of scientific inquiry in evolution. Formerly BIOL 590H.

BIOL 5908. Senior Seminar: Microbiology. Units: 2

Semester Prerequisite: At least 90 semester units and BIOL 3200 with a grade of C or better; or graduate standing in Biology; or consent of instructor. Quarter Prerequisite: BIOL 300 with a grade of C or better, and a minimum of 15 upper-division units in biology courses and at least 135 quarter units

Survey of current literature, methods and ethics of scientific inquiry in microbiology. Formerly BIOL 590I.

BIOL 5909. Senior Seminar: Zoology. Units: 2

Semester Prerequisite: At least 90 semester units or graduate standing in Biology, or consent of instructor. Quarter Prerequisite: BIOL 300 with a grade of C or better, and a minimum of 15 upper-division units in biology courses and at least 135 quarter units

Survey of current literature, methods and ethics of scientific inquiry in zoology. Formerly BIOL 590J.

BIOL 5910. Senior Seminar: Botany. Units: 2

Semester Prerequisite: At least 90 semester units and one of the following courses with a grade of C or better: BIOL 3520, BIOL 3540, BIOL 4510, or BIOL 4580; or graduate standing in Biology; or consent of instructor. Quarter Prerequisite: BIOL 300 with a grade of C or better, and a minimum of 15 upper-division units in biology courses and at least 135 quarter units

Survey of current literature, methods and ethics of scientific inquiry in botany. Formerly BIOL 590K.

BIOL 5911. Senior Seminar: History of Biology. Units: 2

Semester Prerequisite: At least 90 semester units and BIOL 2020 with a grade of C or better; or graduate standing in Biology. Quarter Prerequisite: BIOL 300 with a grade of C or better, and a minimum of 15 upper-division units in biology courses and at least 135 quarter units

Investigation into the history of different branches of biology. Formerly BIOL 590L.

BIOL 5912. Senior Seminar: Conservation Biology. Units: 2

Semester Prerequisite: At least 90 semester units and either BIOL 3700 with a grade of C or better or BIOL 3800 with a grade of C or better; or graduate standing in Biology; or consent of instructor. Quarter Prerequisite: BIOL 300 with a grade of C or better, and a minimum of 15 upper-division units in biology courses and at least 135 quarter units

Survey of current literature, methods and ethics of scientific inquiry in conservation biology. Formerly BIOL 590M.

BIOL 5951. Independent Research. Unit: 1

Quarter Prerequisite: BIOL 202 with a grade of C or better and a minimum overall GPA of 3 or better

Laboratory and/or field research in selected areas in biology conducted under the direction of a faculty member. A total of four units of Independent Research (BIOL 5951-5956) may be applied toward the major requirements of the B.S. in Biology. Students must present research findings at least once per academic year at the Biology Department colloquium, and must attend the Biology Department colloquium every semester until their projects are complete. Department approval of a written project proposal submitted on a standard application is required. The project proposal must be submitted for Departmental review in advance of the semester in which the course is to be taken. May be taken four time for four units. Department consent required. Graded credit/no credit.

BIOL 5952. Independent Research. Units: 2

Quarter Prerequisite: BIOL 202 with a grade of C or better and a minimum overall GPA of B or better

Laboratory and/or field research in selected areas in biology conducted under the direction of a faculty member. A total of four units of Independent Research (BIOL 5951-5956) may be applied toward the major requirements of the B.S. in Biology. Students must present research findings at least once per academic year at the Biology Department colloquium, and must attend the Biology Department colloquium every semester until their projects are complete. Department approval of a written project proposal submitted on a standard application is required. The project proposal must be submitted for Departmental review in advance of the semester in which the course is to be taken. May be taken three times for six units. Consent of Instructor required. Graded credit/no credit.

BIOL 5953. Independent Research. Units: 3

Quarter Prerequisite: BIOL 202 with a grade of C or better and a minimum overall GPA of B or better

Laboratory and/or field research in selected areas in biology conducted under the direction of a faculty member. A total of four units of Independent Research (BIOL 5951-5956) may be applied toward the major requirements of the B.S. in Biology. Students must present research findings at least once per academic year at the Biology Department colloquium, and must attend the Biology Department colloquium every semester until their projects are complete. Department approval of a written project proposal submitted on a standard application is required. The project proposal must be submitted for Departmental review in advance of the semester in which the course is to be taken. May be taken two time for six units. Department required. Graded credit/no credit.

BIOL 5954. Independent Research. Units: 4

Quarter Prerequisite: BIOL 202 with a grade of C or better and a minimum overall GPA of B or better

Laboratory and/or field research in selected areas in biology conducted under the direction of a faculty member. A total of four units of Independent Research (BIOL 5951-5956) may be applied toward the major requirements of the B.S. in Biology. Students must present research findings at least once per academic year at the Biology Department colloquium, and must attend the Biology Department colloquium every semester until their projects are complete. Department approval of a written project proposal submitted on a standard application is required. The project proposal must be submitted for Departmental review in advance of the semester in which the course is to be taken. May be taken two time for eight units. Department consent required. Graded credit/no credit.

BIOL 5955. Independent Research. Units: 5

Quarter Prerequisite: BIOL 202 with a grade of C or better and a minimum overall GPA of 3 or better

Laboratory and/or field research in selected areas in biology conducted under the direction of a faculty member. A total of four units of Independent Research (BIOL 5951-5956) may be applied toward the undergraduate degree in Biology. Students must present research findings at least once per academic year at the Biology Department colloquium, and must attend the Biology Department colloquium every semester until their projects are complete. Department approval of a written project proposal submitted on a standard application is required. The project proposal must be submitted for Departmental review in advance of the semester in which the course is to be taken. May be taken two time for 10 units. Department consent required. Graded credit/no credit.

BIOL 5956. Independent Research. Units: 6

Quarter Prerequisite: BIOL 202 with a grade of C or better and a minimum overall GPA of 3 or better

Laboratory and/or field research in selected areas in biology conducted under the direction of a faculty member. A total of four units of Independent Research (BIOL 5951-5956) may be applied toward the undergraduate degree in Biology. Students must present research findings at least once per academic year at the Biology Department colloquium, and must attend the Biology Department colloquium every semester until their projects are complete. Department approval of a written project proposal submitted on a standard application is required. The project proposal must be submitted for Departmental review in advance of the semester in which the course is to be taken. Department consent required. Graded credit/no credit.

BIOL 5970. Directed Study in Science Education. Unit: 1

Readings and library research on pedagogical content knowledge of specific content areas in biology. This course should be taken concurrently with or shortly after taking an upper division course in the relevant area of biology. Graded credit/no credit. May be repeated up to four times for credit. No more than two units may be applied toward degree requirements for the BS in Biology. Department approval of a written proposal submitted on a standard application is required. The proposal must be submitted for Departmental review in advance of the semester in which the course is to be taken. Consent of Instructor required. Formerly BIOL 597.

BIOL 6010. Effective Teaching Strategies for Graduate TAs. Units: 2

Semester Prerequisite: Graduate standing in Biology. Quarter Prerequisite: Graduate standing in Biology

Course explores multiple perspectives and strategies for effective teaching. Covers the diversity of students and learning needs, effective presentations, professional behaviors, assessment of student progress and learning, and how to adapt class content or teaching approach as needed. Includes classroom visitations and peer observations. This course is required of all graduate students prior to or concurrent with their first assignment as a teaching assistant. Formerly offered as BIOL 601; students may not receive credit for both courses.

BIOL 6020. Professional Writing in the Biological Sciences. Units: 2

Semester Prerequisite: Graduate standing in Biology

Writing skills appropriate to scientific works (journal articles, meeting abstracts, proposals, technical writing for general audiences, etc.). Includes formatting conventions, peer review, and ethical issues in scientific writing. Graduate students should take this course early in their program.

BIOL 6030. Presentation in Biological Sciences. Unit: 1

Semester Prerequisite: Graduate standing in Biology

Methods of effective presentation in biological research. Covers structure of oral presentations, effective data presentation, and audience engagement. Completion of course requires presentation of original laboratory and/or field research. Students will work closely with their thesis mentor to develop, carry out, analyze, prepare, and present their first research talk at the Biology Department Student Research Colloquium or other venue approved by the student's thesis committee. Graded credit/no credit.

BIOL 6050L. Graduate Biostatistics and Experimental Design Laboratory. Unit: 1

Semester Prerequisite: BIOL 5050 and consent of instructor

Provides experience in using various computer programs and techniques to address problems in statistical analysis and presentation of data related to a student's thesis project, including analysis of proportions and frequencies, comparisons of means among numerical variables, regression, correlation, analysis of variance, as well as non-parametric approaches. Graded credit/no credit.

BIOL 6100. Primary Literature in Biology. Unit: 1

Semester Prerequisite: Graduate standing in Biology

Faculty supervised discussion in journal club format. Students will learn how to interpret, evaluate, present, and critique published research articles in various subfields of biology. Formerly BIOL 691. May be repeated up to three times for credit. Graded credit/no credit.

BIOL 6300. Advanced Topics in Molecular Biology. Units: 2

Semester Prerequisite: Graduate standing in Biology. Quarter Prerequisite: consent of instructor

An in-depth consideration of selected research areas in molecular biology. May be repeated for credit as topics change. Formerly BIOL 600.

BIOL 6310. Advanced Topics in Cell Biology. Units: 2

Quarter Prerequisite: consent of instructor
An in-depth consideration of selected research areas in cell biology. May be repeated for credit as topics change. Formerly BIOL 605.

BIOL 6320. Advanced Topics in Plant Biology. Units: 2

Semester Prerequisite: Graduate standing in Biology. Quarter Prerequisite: consent of instructor
An in-depth consideration of selected areas of current study in plant biology. May be repeated for credit as topics change. Formerly BIOL 620.

BIOL 6330. Advanced Topics in Zoology. Units: 2

Semester Prerequisite: Graduate standing in Biology. Quarter Prerequisite: consent of instructor
An in-depth consideration of selected research areas in zoology. May be repeated for credit as topics change. Formerly BIOL 622.

BIOL 6340. Advanced Topics in Physiology. Units: 2

Semester Prerequisite: Graduate standing in Biology. Quarter Prerequisite: consent of instructor
An in-depth consideration of selected research areas in physiology. May be repeated for credit as topics change. Formerly BIOL 624.

BIOL 6350. Advanced Topics in Immunology. Units: 2

Quarter Prerequisite: BIOL 573
An in-depth examination of current research in cellular and molecular immunology. May be repeated for credit as topics change. Formerly BIOL 677.

BIOL 6360. Advanced Topics in Microbiology. Units: 2

Semester Prerequisite: BIOL 2200 or BIOL 3200 and graduate standing in Biology. Quarter Prerequisite: BIOL 220 or BIOL 320
An in-depth examination of current research in microbiology. May be repeated for credit as topics change. Formerly BIOL 678.

BIOL 6370. Advanced Topics in Ecology. Units: 2

Semester Prerequisite: BIOL 3800 or equivalent, and graduate standing in Biology. Quarter Prerequisite: BIOL 450 or equivalent
Literature survey of specific topics related to community or ecosystem dynamics. May be repeated for credit as topics change. Formerly BIOL 670.

BIOL 6380. Advanced Topics in Evolution. Units: 2

Semester Prerequisite: Graduate standing in Biology. Quarter Prerequisite: consent of instructor
Topics of current research interest in plant or animal evolution. May be repeated for credit as topics change. Formerly BIOL 680.

BIOL 6390. Advanced Topics in Genetics. Units: 2

Semester Prerequisite: Graduate standing in Biology. Quarter Prerequisite: consent of instructor
An in-depth consideration of selected research areas in genetics. May be repeated for credit as topics change. Formerly BIOL 650.

BIOL 6400. Advanced Topics in Biosystematics. Units: 2

Semester Prerequisite: Graduate standing in Biology, BIOL 3300, and one taxonomy-based course; eg BIOL 3520, 3410, 3460, 3420, or 3540. Quarter Prerequisite: BIOL 423 and one taxonomy-based course; eg BIOL 319, 331, 335, 342, 353, or 354
Fundamental concepts of classification systems, biometric and experimental taxonomic procedures, nomenclature and systematic literature, both plant and animal materials used. Formerly BIOL 664.

BIOL 6490. Advanced Topics in Biology. Units: 2

Semester Prerequisite: Graduate standing in Biology
Selected topics and reviews of current investigations in the fields of biology. May be repeated for credit as topics change. Formerly BIOL 690.

BIOL 6930. Supervised Graduate Research in Biology. Unit: 1

Semester Prerequisite: Classified graduate standing in Biology. Quarter Prerequisite: classified standing in Masters Degree Program and consent of instructor
Laboratory and/or field research methods in biology. Instruction in methods and techniques in the student's subfield of biology, focusing on developing methods and direction for the thesis research. Students should take this course early in their graduate program. Formerly BIOL 692; students may not receive credit for both. Consent of instructor required. Graded credit/no credit.

BIOL 6940. Thesis proposal. Units: 3

Semester Prerequisite: BIOL 6020, BIOL 6930, and completion of at least 6 additional units toward the graduate degree
Research proposal development conducted under direction of the student's thesis mentor. To complete the course, students must successfully defend their thesis proposal. The written thesis proposal should explicitly state the research objectives, review the body of literature that motivates and justifies the research, describe appropriate research methods, and present preliminary data. The student will defend the thesis proposal with an oral presentation open to the public, followed by a private question and answer period with the thesis committee. Successful completion allows student to advance to candidacy. Consent of instructor required. Graded credit/no credit.

BIOL 6951. Independent Graduate Research in Biology. Unit: 1

Quarter Prerequisite: classified standing in Masters Degree Program and consent of instructor
Original individual research in biology to be conducted under the supervision of a faculty member. Consent of instructor required. Formerly BIOL 696A. May be repeated twice for credit. No more than six units of Independent Graduate Research (BIOL 6951-6956) may be applied toward degree requirements. Graded credit/no credit.

BIOL 6952. Independent Graduate Research in Biology. Units: 2

Quarter Prerequisite: classified standing in Masters Degree Program and consent of instructor
Original individual research in biology to be conducted under the supervision of a faculty member. Consent of instructor required. Formerly BIOL 696B. May be repeated twice for credit. No more than six units of Independent Graduate Research (BIOL 6951-6956) may be applied toward degree requirements. Graded credit/no credit.

BIOL 6953. Independent Graduate Research in Biology. Units: 3

Quarter Prerequisite: classified standing in Masters Degree Program and consent of instructor

Original individual research in biology to be conducted under the supervision of a faculty member. Consent of instructor required. Formerly BIOL 696C. May be repeated twice for credit. No more than six units of Independent Graduate Research (BIOL 6951-6956) may be applied toward degree requirements. Graded credit/no credit.

BIOL 6954. Independent Graduate Research in Biology. Units: 4

Quarter Prerequisite: classified standing in Masters Degree Program and consent of instructor

Original individual research in biology to be conducted under the supervision of a faculty member. Formerly BIOL 696D. May be repeated twice for credit. No more than six units of Independent Graduate Research (BIOL 6951-6956) may be applied toward degree requirements. Graded credit/no credit. Consent of instructor required.

BIOL 6955. Independent Graduate Research in Biology. Units: 5

Quarter Prerequisite: classified standing in Masters Degree Program and consent of instructor

Original individual research in biology to be conducted under the supervision of a faculty member. Formerly BIOL 696E. May be repeated twice for credit. No more than six units of Independent Graduate Research (BIOL 6951-6956) may be applied toward degree requirements. Graded credit/no credit. Consent of instructor required.

BIOL 6956. Independent Graduate Research in Biology. Units: 6

Quarter Prerequisite: classified standing in Masters Degree Program and consent of instructor

Original individual research in biology to be conducted under the supervision of a faculty member. Formerly BIOL 696F. May be repeated twice for credit. No more than six units of Independent Graduate Research (BIOL 6951-6956) may be applied toward degree requirements. Graded credit/no credit. Consent of instructor required.

BIOL 6970. Graduate Thesis. Units: 3

Semester Prerequisite: BIOL 6940

Preparation of the thesis for the Master of Science in Biology under the direction of a faculty member from the student's committee. Requirements: successful completion and defense of the thesis. Formerly offered as the combination of BIOL 699A, BIOL 699B and BIOL 699C. Consent of instructor required. Graded credit/no credit.

BIOL 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

BIOL 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

BIOL 6992. Continuous Enrollment for Graduate Candidacy Standing. Units: 2

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

BIOL 6993. Continuous Enrollment for Graduate Candidacy Standing. Units: 3

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

BIOL 6994. Continuous Enrollment for Graduate Candidacy Standing. Units: 4

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

BIOL 6995. Continuous Enrollment for Graduate Candidacy Standing. Units: 5

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

BIOL 6996. Continuous Enrollment for Graduate Candidacy Standing. Units: 6

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

Child, Adolescent, and Family Studies (CAFS)

Courses

CAFS 2200. CAFS as a Major. Unit: 1

An introduction to the Child, Adolescent, and Family Studies major at CSUSB including different areas of specialization and professional activities of those who obtain a degree in Child, Adolescent, and Family Studies. This is an online course. Formerly known as CD 2200. Graded credit/no credit.

CAFS 2201. Foundational Skills for CAFS Majors. Unit: 1

Semester Prerequisite: CAFS 2200

This course is designed to provide students with essential foundational skills necessary for achieving excellence as a Child, Adolescent, and Family Studies major. To equip them with the tools and knowledge needed to succeed in the completion of their degree, students will engage in a broad exploration of such topics as effective writing, plagiarism prevention, academic integrity, APA style, critical analysis of information, and professional communication in an academic setting. By the end of the course, students will have enhanced skills that are critical for producing high-quality academic work and for establishing meaningful connections with faculty, students, and staff. Formerly known as CD 2201.

CAFS 2205. Diversity in Child Development. Units: 3

Semester Prerequisite: CAFS 2240

Theories of cultural and ethnic diversity and their applications to child development. Emphasis will be given to the impact of diversity (culture, race, gender, age, ability, etc.) in professional settings involving children, the development of anti-bias activities, and advocacy. Satisfies DI designation. Formerly known as CD 2205.

CAFS 2209. Health, Safety, and Nutrition. Units: 3

Semester Prerequisite: CAFS 2240

Training in basic health, safety, nutrition, and disaster preparedness issues when caring for children (with and without special needs). Students will additionally be introduced to child abuse identification and prevention and caring for the mildly ill child. Formerly known as CD 2209.

CAFS 2215. Child, Family, and Community. Units: 3

Semester Prerequisite: CAFS 2240
An examination of children in a societal context focusing on the inter-relationship between school, family, and community. Emphasis will be given to historical and cultural factors which influence the family and children's subsequent socialization. Formerly known as HD 215, CD 2215.

CAFS 2220. Introduction to Data Analysis in Child, Adolescent, and Family Studies. Units: 3

Techniques for the elementary analysis of quantitative and qualitative social data. Includes descriptive and inferential measures and tools to code and analyze qualitative data, as well as various ways to present results. Three hours lecture. Equivalent to CD 2210, cannot receive credit for both courses.

CAFS 2240. Introduction to Child Development. Units: 3

Comprehensive introduction to child development from conception through adolescence. Emphasis is on physical, cognitive social, emotional and language development. Satisfies GE D3/4.

CAFS 2244. Observation and Methods: Infant and Toddler Development. Units: 3

Semester Prerequisite: CAFS 2240
Introduction to observational methodologies and techniques used in the study of infant and toddler behavior. Students will observe, record, analyze and interpret infant and toddler behavior as they relate to developmental principles, theories and current research. A minimum of 15 hours of child observation will be required. Formerly known as CD 2244.

CAFS 2245. Observation and Methods: Preschool and Early School Age Development. Units: 3

Semester Prerequisite: CAFS 2240
Introduction to observational methodologies and techniques used in the study of preschool and early school age behavior. Students will observe, record, analyze and interpret preschool and early school age behavior as they relate to developmental principles, theories and current research. A minimum of 15 hours of child observation will be required. Formerly known as HD 245, CD 2245.

CAFS 2246. Observation and Methods: School Age Development. Units: 3

Semester Prerequisite: CAFS 2240
Introduction to observational methodologies and techniques used in the study of school age behavior. Students will observe, record, analyze and interpret school age behavior as they relate to developmental principles, theories and current research. A minimum of 15 hours of child observation will be required. Formerly known as HD 246, CD 2246.

CAFS 2247. Observation and Methods: Adolescent Development. Units: 3

Semester Prerequisite: CAFS 2240
Introduction to observational methodologies and techniques used in the study of adolescent behavior. Students will observe, record, analyze and interpret adolescent behavior as they relate to developmental principles, theories and current research. A minimum of 15 hours of child observation will be required. Formerly known as HD 247, CD 2247.

CAFS 2250. Infant and Toddler Development. Units: 3

Semester Prerequisite: CAFS 2240
An examination of prenatal, neonatal, and the physical, perceptual, social, emotional, language, and cognitive development of infants and toddlers through age two. Formerly known as HD 270, CD 2250.

CAFS 2251. Effective Interactions with Infants and Toddlers. Units: 3

Semester Prerequisite: CAFS 2250
An examination of the importance of developmentally appropriate practice emphasizing the role of relationships, constructive adult-child interactions, designing group care settings, and positive child guidance with infants and toddlers. Professional practice with regard to advocacy, ethics, and professional identity will be explored as well. Formerly known as HD 271, CD 2251.

CAFS 2252. Infant and Toddler Activities and Programs. Units: 3

Methods, materials and activities appropriate in group care settings for infants and toddlers. Teaching strategies that support physical, social, emotional, language, creative, and cognitive development of infants and toddlers. Formerly known as HD 272, CD 2252.

CAFS 2260. Early Childhood Development. Units: 3

Semester Prerequisite: CAFS 2240
An examination of the physical, social, emotional, and cognitive development of preschool and early school age children from age two to six. Formerly known as HD 280, CD 2260.

CAFS 2261. Effective Interactions with Preschoolers and Early School Agers. Units: 3

Semester Prerequisite: CAFS 2260
An examination of the importance of developmentally appropriate practice emphasizing the role of relationships, constructive adult-child interactions, designing group care settings, and positive child guidance with preschool and early school age children. Professional practice with regard to advocacy, ethics, and professional identity will be explored as well. Formerly known as HD 281, CD 2261.

CAFS 2262. Preschool and Early School Age Activities and Programs. Units: 3

Semester Prerequisite: CAFS 2261
Methods, materials, and activities appropriate in group care settings for preschoolers and early school age children. Teaching strategies that support physical, social, emotional, language, creative, and cognitive development preschooler and early school age children. Formerly known as HD 282, CD 2262.

CAFS 2270. Middle Childhood Development. Units: 3

An examination of the physical, social, emotional, and cognitive development of children in middle childhood (age 6 to 12). Formerly known as CD 2270.

CAFS 2275. Adolescent and Emerging Adulthood Development. Units: 3

Semester Prerequisite: CAFS 2240
An examination of physical, cognitive, social, and emotional development during adolescence and emerging adulthood (age 12-25). Formerly known as CD 2275.

CAFS 2281. Effective Interactions with Infants and Toddlers: Laboratory. Units: 2

Semester Prerequisite: Current immunizations (TB test, flu, pertussis, measles), proof of government issued ID, and training (mandated reporter and germ management)
Supervised experience focusing on developmentally appropriate practices in communicating and interacting with infants and toddlers and guiding child behavior. Formerly known as CD 2281. Materials fee required.

CAFS 2282. Infant and Toddler Activities and Programs: Laboratory. Units: 2

Semester Prerequisite: Current immunizations (TB test, flu, pertussis, measles), proof of government issued ID, and training (mandated reporter and germ management)
Supervised experience focusing on planning, implementing, and evaluating curriculum activities with infants and toddlers. Formerly known as CD 2282. Materials fee required.

CAFS 2285. Effective Interactions, Activities, and Programs with School Age and Adolescent Children. Units: 3

Semester Prerequisite: CAFS 2270 or CAFS 2275
An examination of the importance of developmentally appropriate practice with school-age and adolescent children. This will include the role of relationships, constructive adult-child interaction, and positive child guidance in addition to appropriate methods, materials, and activities. Emphasis will be given to strategies that support physical, social, emotional, language, creative, and cognitive development. Formerly known as CD 2285, CD 4405.

CAFS 2286. Interactions Lab: School Age and Adolescence. Units: 2

Semester Corequisite: CAFS 2285
Supervised experience focusing on developmentally appropriate practices in communicating and interacting with school-age and adolescents and guiding behavior. This course requires 15 hours of seminar and 45 hours of clinical per term. Materials fee required. Formerly known as CD 2286, CD 4406.

CAFS 2287. Activities Lab: School Age and Adolescence. Units: 2

Supervised experience planning, implementing, and evaluating curriculum activities with school-age and adolescent children. This course requires 15 hours of seminar and 45 hours of clinical per term. Formerly known as CD 2287, CD 4407. Materials fee required.

CAFS 2291. Effective Interactions with Preschool and Early School Agers: Laboratory. Units: 2

Semester Prerequisite: Current immunizations (TB test, flu, pertussis, measles), proof of government issued ID, and training (mandated reporter and germ management)
Semester Corequisite: CAFS 2261
Supervised experience focusing on developmentally appropriate practices in communicating and interacting with preschoolers and early school age children and guiding child behavior. Formerly known as HD 291, CD 2291. Materials fee required.

CAFS 2292. Preschool and Early School Age Activities and Programs: Laboratory. Units: 2

Semester Prerequisite: Current immunizations (TB test, flu, pertussis, measles), proof of government issued ID, and training (mandated reporter and germ management)
Semester Corequisite: CAFS 2262
Supervised experience focusing on planning, implementing, and evaluating curriculum activities with preschoolers and early school age school children. Formerly offered as HD 292, CD 2292. Materials fee required.

CAFS 3302. History of Childhood. Units: 3

Semester Prerequisite: CAFS 2240
Historical survey of childhood within the contexts of family and society. Formerly offered as HD 302, CD 3302.

CAFS 3303. Parenting and Family Relations. Units: 3

Semester Prerequisite: CAFS 2240
Examination of parenting and intra-family relations on child development and the linkage between family processes and the broader social environment. Formerly known as CD 3303.

CAFS 3304. Play and Effective Practice with Children. Units: 3

Semester Prerequisite: CAFS 2240
Examination of theory and research focused on the utility of play based approaches to development and learning. Formerly offered as HD 304, CD 3304.

CAFS 3305. Language Development. Units: 3

Semester Prerequisite: CAFS 2240
Language development from childhood through adolescence and early adulthood. Equivalent to ENG 3310, credit may not be awarded for both. Formerly known as CD 3305.

CAFS 3306. Early Childhood Special Education. Units: 3

Semester Prerequisite: CAFS 2240, CAFS 2250 or CAFS 2260, and CAFS 2244 or CAFS 2245 or CAFS 2246
Examines early childhood special education including issues related to policy/legislation, identification, characteristics, inclusion, and the role of family will be addressed. Professional practice, ethics, IFSPs, and making adaptations to planning activities and the physical environment to the needs of every child will be explored. Formerly known as CD 3306.

CAFS 3315. Applied Research Methods. Units: 4

Overview of applied research methods in child development. Emphasis on the use of applied methods, their analyses, and scientific writing. Topics may include quasi-experimental design, correlational design, behavioral observation, archival analysis, single-case methodology, survey methodology, research ethics, library research strategies, and writing research reports. Three hours lecture; two hours laboratory. Equivalent to CAFS 3310, cannot receive credit for both courses.

CAFS 3324. Developmental Psychobiology in Childhood. Units: 3

Semester Prerequisite: CAFS 2240

Psychobiological bases of human behavioral development throughout childhood. Formerly known as PSYC/HD 324, CD 3324, PSYC 3324.

CAFS 3350. Development of Exceptional Children. Units: 3

Semester Prerequisite: CAFS 2240

Review of theory, assessment, management, and rehabilitation of exceptional children. Includes developmental implications of specific educational disabilities, intellectual disabilities, and learning disabilities. Formerly known as PSYC 350, CD 3350, PSYC 3350.

CAFS 3358. Cognitive Development. Units: 3

Semester Prerequisite: CAFS 2240

Cognitive development from childhood through adolescence and early adulthood. Formerly known as CD 3358.

CAFS 3384. Social and Emotional Development. Units: 3

Social and emotional development from childhood through adolescence and early adulthood. Formerly known as CD 3384.

CAFS 4450. Child Assessment. Units: 3

This course provides a comprehensive introduction to the theory and practice of psychoeducational and neuropsychological assessment. Students will learn how to administer, score, and interpret a variety of standardized assessment tools commonly used in educational and clinical settings. They will develop essential skills in analyzing assessment data to identify strengths, weaknesses, and areas for intervention in individuals with diverse learning needs. This course also examines the ethical and cultural considerations in assessment practices, ensuring that students are equipped to conduct evaluations in a fair and unbiased manner and make informed decisions for students that are based on assessment findings. Formerly known as CD 4450. Equivalent to CD 4400, cannot receive credit for both courses. Materials fee required.

CAFS 4498. Advanced Child and Family Development. Units: 3

Semester Prerequisite: CAFS 2220 and CAFS 3315

Theories and empirical research of child and family development. Design and execution of a research project. Satisfies WI designation.

CAFS 5005. Early Math Development and Education: From Theory to Practice. Units: 3

Semester Prerequisite: CAFS 2240

This course provides an in-depth exploration of young children's math development from birth to age 8. Students will examine key theories and research on early mathematical thinking and the developmental milestones in children's understanding of number, shape, space, measurement, and patterns. Using pedagogical content knowledge (PCK), the course bridges theory with practice, focusing on effective strategies for supporting math learning in early childhood education settings. Special emphasis will be placed on how math education intersects with diversity, equity, and inclusion (DEI), exploring ways to integrate social justice concepts into early math learning. Through hands-on activities, case studies, and reflective practice, students will develop the skills to design, implement, and evaluate age-appropriate math learning experiences that are culturally responsive and promote equity in math readiness.

CAFS 5110. The Development of Young Children. Units: 3

This course covers the development of children from birth to age 8. This is accomplished by reviewing prominent theories of early childhood development, outlining developmental milestones of typically developing children aged 0 to 8, talking about individual and contextual factors that influence these milestones, and reviewing methods for studying the development of young children. Department consent required. Formerly known as CD 5110.

CAFS 5115. Educational Psychology, Social Justice, and Diversity. Units: 3

This course is designed to explore the intersection of educational psychology principles with issues of social justice and diversity in educational settings. This course delves into the psychological aspects of learning and development, understanding the influence of individual differences, and critically examining the impact of socio-cultural factors on educational outcomes. Students will explore theoretical frameworks, empirical research, and practical applications to promote inclusive and equitable learning environments. Department consent required. Formerly known as CD 5115.

CAFS 5120. Cognition and Brain Development. Units: 3

This course explores the field of cognition and brain development in young children. Through a multidisciplinary approach that integrates education, neuroscience, and psychology, students will gain a comprehensive understanding of how cognitive processes emerge and evolve during the critical early years of childhood. This course emphasizes theories and research related to cognition and brain development, the practical implications of work in this field, and how information on cognition and the brain can inform caregiving practices in early childhood settings. Department consent required. Formerly known as CD 5120.

CAFS 5125. Language and Literacy Development. Units: 3

This course provides a comprehensive exploration of language and literacy development in young children (ages 0 to 8). Key language development milestones in infancy, toddlerhood, preschool, kindergarten, and the early elementary grades will be studied. Students will gain an understanding of the processes involved in language acquisition, literacy development (reading and writing), and the reciprocal relationship between language, reading, and writing. Further, contextual factors that promote or hinder development will also be explored, and students will learn to create effective literacy-rich environments and develop strategies to support diverse learners in their language and literacy growth. Department consent required. Formerly known as CD 5125.

CAFS 5130. Effective Interactions with Young Children. Units: 3

This course presents a developmental, relationship-based, child-centered approach to the guidance and discipline of young children, including children with disabilities. Specifically, we will discuss influential theories, effective guidance methods for early education teachers and other professionals working with children, and communication with parents. The influence of ACES, trauma, and stress in the lives of children and trauma informed care strategies will also be addressed. Emphasis on facilitating children's social and emotional development will be woven throughout. Department consent required. Formerly known as CD 5130.

CAFS 5135. Early Childhood Curriculum and Programs. Units: 3

This course is designed to help you gain a better understanding of designing and implementing an integrated curriculum in early education. Early childhood education refers to the education and care of children aged birth through eight. In this course we will be discussing how to plan appropriate educational programs for children ages 3-8. Specifically, in this course we will focus on ways to plan and implement developmentally appropriate activities, understand and practice the teacher's role in facilitating learning through play, and coordinate, sequence, and evaluate curricula. Emphasis will be placed on active exploration and learning. Department consent required. Formerly known as CD 5135.

CAFS 5140. Authentic Assessment & Special Education of Young Children. Units: 3

The purpose of this course is to understand the special education system in the State of California for children aged 3-8 in addition to how to assess both typically and atypically developing children in early education classrooms (PK through grade 3). For special education, this course will focus on issues related to policy/legislation, identification, characteristics, inclusion, the role of family, IEPs, and creating classroom adaptations for children. For assessment, students will develop essential skills in analyzing assessment data to identify strengths, areas of improvement, and intervention for individuals with diverse learning needs. These topics will be considered through an ethical and cultural lens, ensuring that students are equipped to analyze and utilize data in a fair and unbiased manner. Finally, this course will address working in collaboration with other professionals to best serve children in educational settings. Department consent required. Formerly known as CD 5140.

CAFS 5145. Methods of Research. Units: 3

This course is designed to provide educators with the knowledge and skills to engage in action research within their teaching environments. Action research allows educators to actively investigate, reflect upon, and improve their teaching practices. Students will learn how to identify educational challenges, design research questions, collect and analyze data, and implement meaningful changes in their classrooms. Department consent required. Formerly known as CD 5145.

CAFS 5531. Effective, Inclusive, and Equitable Practices with Children. Units: 3

This course provides students with an in-depth understanding of effective developmentally appropriate guidance and educational strategies with children from infancy through adolescence. This course will examine effective practices including theoretical and practical implications of societal, historical and interpersonal oppressions as they impact children, families, programs, classrooms, and teaching. Using evidence-based strategies, the course will involve critical self-examination and reflection on issues of social and educational equity as well as advocacy towards inclusion. Formerly known as CD 531, CD 532, CD 5531.

CAFS 5575. Advanced Practicum Experience: Early Childhood. Units: 3

Semester Prerequisite: CAFS 2282 or CAFS 2292

Supervised work and study in private and public organizations serving children and families for students in the early childhood development concentration. Formerly known as CD 5575.

CAFS 5580. Advanced Practicum Experience: Child and Adolescent. Units: 3

Semester Prerequisite: CAFS 2287

Supervised work and study in private and public organizations serving children and families for students in the child and adolescent development concentration. Course consists of 50 minutes lecture per week and 6 clinical hours at a community placement.

CAFS 5674. Honors Seminar 1. Units: 2

Semester Prerequisite: CAFS 3310, CAFS 4498, and consent of Department

Students meet as a class with the Honors Program Instructor Director to discuss their projects and professional development topics including research ethics, oral and written presentation of their thesis projects, graduate school applications, and career directions. Enrollment is limited to students whose formal application for departmental honors is approved. Formerly known as CD 5674.

CAFS 5675. Honors Seminar 2. Unit: 1

Semester Prerequisite: CAFS 5674 and department

Students meet as a class with the Honors Program Instructor Director to discuss their projects and professional development topics including research ethics, oral and written presentation of their thesis projects, graduate school applications, and career directions. Enrollment is limited to students whose formal application for departmental honors is approved. Formerly known as CD 5675.

CAFS 5710. Leadership in Early Childhood Education. Units: 3

Learn about leadership skills that can be applied to the early childhood education setting. Specifically, you'll have the opportunity to assess your own leadership style and how to use your strengths to serve others. Discuss common challenges within leading in an early childhood program and strategies to problem solve. Understand how to set goals with specific steps to reaching the goals. Formerly known as CD 5710.

CAFS 5715. Entrepreneurship & Small Business Management. Units: 3

Learn what is entrepreneurship and how it connects to early childhood care and education. Begin to identify your own entrepreneurial mindset. Examine typical challenges of business ownership. Learn vital small business skills such as legal considerations, how to make data-driven decisions, and strategies to be fiscally sustainable early childhood programs. Formerly known as CD 5715.

CAFS 5720. Early Childhood Administration & Community Engagement. Units: 3

Identify methods of employee performance appraisals. Examine considerations for hiring and job descriptions. Consider key components of creating mission statements and program philosophies. Examine the importance of high quality work environments and compensation for employees. Learn strategies and benefits to community engagement. Formerly known as CD 5720.

CAFS 5725. Mentoring and Adult Supervision. Units: 3

Learn different methods of mentoring. Use your leadership style, identified in previous courses, to connect with mentoring adults. Discuss common challenges of adult supervision. Learn how to provide effective feedback and ways to track mentee progress. Learn strategies to support adults in developing and achieving goals. Formerly known as CD 5725.

CAFS 5730. Impact of Trauma on Child Development. Units: 3

This course will provide an opportunity for students to gain an in-depth understanding of trauma and Adverse Childhood Experiences (ACE) and their impact on child development. Specifically, young children's responses to trauma, and implications for mental health and stress response. In addition to the impact of trauma on child development, this course will provide an understanding of how trauma impacts the systems in which children develop. Students will have an opportunity to self-reflect on their own potential trauma and ACEs. Formerly known as CD 5730.

CAFS 5735. Trauma Informed Care Using a Safety Based Approach. Units: 3

This course will use a safety-based and resiliency perspective. Students will learn what is Trauma Informed Care. Students will have an opportunity to examine how to create safe environments so children feel comfortable to learn and explore. The course will provide clear strategies for building trusting relationships with children as well as considerations for room design and materials. Formerly known as CD 5735.

CAFS 5740. Trauma Informed Care in Practice. Units: 3

This course is the final in the certificate program and focuses on examining Trauma Informed Care in action. Students will learn evidence-based strategies for working with young children who may have experienced trauma. There will be opportunities to practice TIC using scenarios and interactive assignments. Students will identify key resources in their community that can support trauma informed care. This course will discuss and provide coping skills for compassion fatigue. Formerly known as CD 5740.

CAFS 5821. Special Topics in Child, Adolescent, and Family Studies. Unit: 1

An intensive study of selected topics related to child, adolescent, and family studies. May be taken three times for three units. Formerly known as CD 5821.

CAFS 5822. Special Topics in Child, Adolescent, and Family Studies. Units: 2

An intensive study of selected topics related to child, adolescent, and family studies. May be taken three times for six units. Formerly known as CD 5822.

CAFS 5823. Special Topics in Child, Adolescent, and Family Studies. Units: 3

An intensive study of selected topics related to child, adolescent, and family studies. May be taken two times for six units. Formerly known as CD 5823.

CAFS 5951. Independent Study. Unit: 1

Special topics involving literature or field study. May be taken eight times for eight units. A total of eight units of CD 5951 may be applied toward graduation, of which a maximum of four units can be applied toward upper-division elective requirements in the major. Formerly known as CD 5951.

CAFS 5952. Independent Study. Units: 2

Special topics involving literature or field study. May be taken four times for eight units. A total of eight units of CAFS 5952 may be applied toward graduation, of which a maximum of four units can be applied toward upper-division elective requirements in the major. Department consent required. Formerly known as CD 5952.

CAFS 5953. Independent Study. Units: 3

Special topics involving literature or field study. May be taken two times for six units. A total of six units of CAFS 5953 may be applied toward graduation, of which a maximum of three units can be applied toward upper-division elective requirements in the major. Department consent required. Formerly known as CD 5953.

CAFS 6125. Advanced Academic Writing. Units: 3

Designed for students who will be completing the comprehensive exam as their chosen culminating experience in the MA CAFS program, this course will help students further develop their writing skills by focusing on organization, word choice, editing, APA style, and summarizing and synthesizing research findings. The ability to use writing to articulate evidence-based reviews, positions, ideas, and summaries is fundamental to effective leadership across child development and education fields. Using the metaphors of conversation and storytelling, this course will frame academic writing, not as a product, but rather as a process and a practice that go beyond successful completion of a comprehensive exam. This process and practice will be discussed as critical to the interpretation and development of research and academic commentary for the purposes of (a) advocacy for children and families and (b) translation of evidence-based information for practitioner use. Department consent required. Formerly known as CAFS 6124.

CAFS 6614. Advanced Theories of Child Development. Units: 3

Semester Prerequisite: Graduate standing and consent of the department
Overview of major child development theories. Formerly known as CD 614, CD 6614.

CAFS 6624. Advanced Developmental Neuroscience. Units: 3

Semester Prerequisite: Graduate standing and consent of the department
Survey of the psychobiological foundations of human behavioral development throughout the lifespan. Special emphasis on the neurobiological bases of developmental disorders and the integration of relationships between behavior and biological processes including genes, physiology, and the environment. Graduate standing and consent of the department are required. Formerly known as CD 624, CD 6624.

CAFS 6630. Teaching of Child, Adolescent, and Family Studies. Units: 3

Semester Prerequisite: Classified graduate standing in Child Development and consent of department
Instructional methods for teaching of child, adolescent, and family studies at the college level. Formerly known as CD 6630.

CAFS 6640. Advanced Research Methods. Units: 3

Semester Prerequisite: Classified graduate standing and department consent required
Advanced child development research methods; research design and underlying methodological issues in analyzing interpersonal interaction and developmental processes. Formerly known as CD 6640.

CAFS 6641. Advanced Data Analysis in Quantitative Methods. Units: 3

Semester Prerequisite: Classified graduate standing and consent of the department
An overview and applications of data analysis methods in quantitative inquiry (e.g. survey research, assessments) with an emphasis on both descriptive and inferential statistics, including correlation, regression, t-test, and ANOVA. Formerly known as CD 6641.

CAFS 6642. Advanced Data Analysis in Qualitative Methods. Units: 3

Semester Prerequisite: Classified graduate standing and consent of department
An overview and application of data analysis methods in qualitative inquiry (e.g. open-ended interviews, focus groups) with an emphasis on documentation of methods, analytic frameworks and tools for analysis, and representation of findings. Formerly known as CD 6642.

CAFS 6648. Advanced Social-Emotional Development. Units: 3

Semester Prerequisite: Graduate standing and consent of the department
Research and theories of social and emotional development from birth to adolescence. Emphasis on major facets of social-emotional development. Formerly known as CD 648, CD 6648.

CAFS 6651. Advanced Cognitive Development. Units: 3

Semester Prerequisite: Graduate standing and consent of the department
Research theory in the development of perception, language, memory, problem solving, reasoning, and other cognitive processes from birth through adolescence. Includes allied disciplines such as the brain sciences and applications to the field of education. Formerly known as CD 651, CD 6651.

CAFS 6659. Advanced Childhood Assessment. Units: 3

Semester Prerequisite: Graduate standing and consent of the department
Overview of major approaches to developmentally appropriate childhood assessment practices. Formerly known as HD 659, CD 6659.

CAFS 6690. Advanced Families and Parenting. Units: 3

Semester Prerequisite: Graduate standing and consent of the department
A review of research on selected topics related to family and parenting issues, and the relation of such to child development. Formerly offered as CD 690, CD 6690.

CAFS 6823. Advanced Special Topics in Child Development. Units: 3

An intensive study of selected topics related to child development. May be taken two times for six units. Department consent required. Formerly known as CD 6823.

CAFS 6892. Externship in Child, Adolescent, and Family Studies. Units: 2

Supervised fieldwork, relating to child, adolescent, and family studies, in a public or private setting for additional training and extension of skills developed in the graduate program. With the approval of the student's advisor and the department chair, may be taken two times for four units. Graded credit/no credit. Department consent required. Formerly CD/HD 689B and CD 6892.

CAFS 6894. Externship in Child, Adolescent, and Family Studies. Units: 4

Supervised fieldwork, relating to child, adolescent, and family studies, in a public or private setting for additional training and extension of skills developed in the graduate program. With the approval of the student's advisor and the department chair, may be taken two times for eight units. Graded credit/no credit. Department consent required. Formerly CD 6894.

CAFS 6954. Advanced Independent Study. Units: 4

Semester Prerequisite: Graduate standing in the CAFS MA Program and consent of the department are required
Advanced research on a specific topic selected by the student with the approval of the student's advisor. With the approval of the student's advisor and the department chair, may be taken two times for eight units. Formerly CD 6954.

CAFS 6964. Graduate Project. Units: 4

Semester Prerequisite: Classified graduate standing, advancement to candidacy, and consent of the department
Preparation and implementation of a project based on a thorough review of theory and empirical research under the guidance of an advisor in the Department of Child Development. Includes completion of a written document containing the elements described above and a formal defense. Formerly offered as CD/HD 695, CD 6964.

CAFS 6974. Thesis. Units: 4

Independent graduate research conducted under the guidance of the major advisor and resulting in a written thesis. Department consent required. Formerly offered as CD 699, CD 6974.

CAFS 6981. Comprehensive Examination. Unit: 1

Semester Prerequisite: Successful completion of CAFS 6125
An assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. May be taken twice. Graded credit/no credit. Formerly known as HD/CD 699 and CAFS 6980. Department consent required.

CAFS 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

Cahuilla (CAHU)

Courses

CAHU 1111. Language Study I: Cahuilla. Units: 3

Introduction to Cahuilla language. Fundamentals of pronunciation, structure, and culture designed to develop the ability to use and understand the language. Formerly FLAN 101R. Materials fee required.

CAHU 1112. Language Study II: Cahuilla. Units: 3

Semester Prerequisite: CAHU 1111 or 2 years high school language study, placement exam, equivalent college-level course or consent of department
Intermediate study in Cahuilla language. Emphasis on oral and written competency at the intermediate level in a cultural context. Satisfies GE C2/3B, DI, G designations. Materials fee required.

CAHU 2111. Language Study III: Cahuilla. Units: 3

Semester Prerequisite: CAHU 1112R. Quarter Prerequisite: FLAN 103 or consent of department
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis. Formerly FLAN 201R. Materials fee required.

CAHU 2112. Language Study IV: Cahuilla. Units: 3

Semester Prerequisite: CAHU 2111R. Quarter Prerequisite: FLAN 201R or consent of department
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis. Formerly FLAN 202R. Materials fee required.

C. Arts and Letters (CAL)

Courses

CAL 1000. You/U: Applied Humanities and Arts. Units: 3

Application of arts and humanities concepts to writing, critical thinking, academic inquiry and creating projects. You/U courses address the relationship of students (you) to the University (U). In addition to providing applicable arts and humanities skills in the university setting, this course seeks to cultivate students' lifelong appreciation of humanities in their personal and professional lives.

CAL 1110. Reacting to the Past: Humanities Perspectives. Units: 3

Courses employ a pedagogy in which students learn by taking on roles, informed by classic texts, in elaborate games set in the past; they learn skills in speaking, writing, critical thinking, problem solving, leadership, and teamwork in order to prevail in difficult and complicated situations. That is because Reacting roles, unlike those in a dramatic play, do not have a fixed script and outcome. While students will be obliged to adhere to the philosophical and intellectual beliefs of the historical figures they have been assigned to play, they must devise their own means of expressing those ideas persuasively, in papers, speeches or other public presentations. Satisfies Big Ideas that Change the World: Exploring Ideas, Innovations, Discoveries pathway.

CAL 1120. Global You/U. Units: 3

An exploration of the multifaceted interconnections between global and local cultures. You/U courses allow students (You) the opportunity to learn and explore in a university setting (U). In addition to providing applicable academic skills, this course is designed to help students study the impacts of a globalized world. Satisfies G designation, Global Connections pathway.

CAL 1130. Digital You/U. Units: 3

An exploration of the multifaceted aspects of digital life and its impact. This course aims to provide students with a strong foundation as they begin their journey in the university. Satisfies Digital Life pathway.

CAL 1140. Sustaining a Life in the Arts. Units: 3

An introductory course designed to equip students for lifelong understanding and development of themselves as integrated physiological, social, and psychological beings who live and work in the arts (music, theater, visual arts, design, film/video, and dance). Topics addressed in this course are grouped into three areas: academic success, personal success, and career success.

CAL 1500. Digital Humanities and Arts. Units: 3

A close look at the evolution of the connections between technology and humanities through historical, cultural and socio-political lenses, reflecting the diverse perspectives of race, gender, class through the arts, media, and culture. It addresses the extent to which digital humanities affects our consumption of written and visual information, our sense of "self" and the society. Satisfies GE C1/3A, DI designation.

CAL 1804. Rock and Roll: Justice and Society. Units: 3

Exploration of the evolution of rock and roll through a historical and socio-political context. The history of rock and roll and its emergence from Post World War II and its development through the second half of the 20th century through the present day are intertwined with the problematic issues of economics, race, gender, equality, politics, sexual orientation, class and culture. Satisfies GE C1/3A, DI designation. Course offered as CAL 1804 and MUS 1804, students may not receive credit for both.

CAL 2500. Islamic Studies. Units: 3

Variable topics in Islamic studies, which includes art, architecture, calligraphy, culture, histiography, literature, Islamophobia, contemporary thoughts and intellectual movements, Qur'anic exegesis (tafseer), Hadeeth science, law, etc. that reflect interests of students. May be taken 10 times for 30 units repeated as topics change. Graded A through C-/NC.

CAL 3000. Foundations and Theoretical Concepts of Immersive Storytelling and Emerging Technologies. Units: 3

This course serves as a foundation for the Certificate Program and Minor in Immersive Storytelling, Design, and Innovative Marketing Communication. In CAL 3000, students are introduced to narrative, including its structures, concepts, and methods. The first module investigates the formats and schemas of storytelling; the second explores narratives from communication and strategic communication perspectives (including empirical research approaches); and the third specifically covers story in immersive media.

CAL 3010. Extended Reality, Storytelling, and World Building. Units: 3

How do individual experiences create collective meaning-making? Can digital mediation technologies transform space into place? What sort of power structures and visual lexicons informs our spatial understanding? Will my app work today? We will explore these questions and more through the foundational effort of world-building commingled with augmented reality tech and the centuries-old craft of storytelling. You will consider how you will "hack" or re-imagine spaces around you. Our gestures will be writing, sketching, storyboarding, and digital imaging, culminating in interactive projects that share our experiments, create engagement, and stimulate new curiosities. One hour lecture and six hours lab per week.

CAL 3020. Story-driven Game Design. Units: 3

This course introduces the practices of designing and creating interactive 3D game experiences to support fiction and non-fiction storytelling. Students will ideate, design, and prototype using the practices of creative concepting, interaction design, level design, and sound design. Students will also learn to interpret story-driven game experiences and playtest their creations. Two hours lecture and three hours lab per week.

CAL 3030. Immersive Storytelling, Product Design, and Integrated Marketing Communication. Units: 3

This course explores how to use immersive storytelling theories and technologies, such as virtual reality, augmented reality, and mixed reality, to design and implement engaging and memorable product and/or service experiences that connect with customers on a deeper level. Students will also learn how to integrate immersive storytelling campaigns into their overall marketing strategy, as well as the fundamental principles of marketing: including market segmentation, targeting, positioning, and the marketing mix. Course equivalent to CAL 3030; credit may not be awarded for both.

CAL 3250. Perspectives on Gender. Units: 3

This interdisciplinary course uses scientific, humanistic, and social science perspectives to foster an understanding of how gender functions in individual lives, societies, and cultures. (Offered as CAL 3250, SSCI 3250 and NSCI 3250. Students may receive credit for only one of these courses.) Satisfies GE C4/UD-3, DI designation.

CAL 3300. Arts and Ideas in A Changing Global World. Units: 3

An interdisciplinary exploration of the interaction between fundamental ideas (truth, goodness, beauty, freedom, equality, justice) and the arts (music, literature, visual arts, dance, cinema, theater) in a changing global world, as seen from philosophical, cultural and historical perspectives. Satisfies GE C4/UD-3, DI, G designations.

CAL 3350. Latinx Border Identity: A Transmedia Perspective. Units: 3

Analysis of the way in which Xicanx/Latinx Border identity has been represented, shaped, fixated, and contested throughout various art and media formats. Examination of the imagined Latinx border identity through the analysis of short-form media samples (i.e. postcards, songs, films, short stories). Satisfies GE C4/UD-3, DI, G designations.

CAL 3400. Enduring Questions in Literature, Culture, and Society. Units: 3

A variable topics class that probes global questions of enduring interest by reading literature in an interdisciplinary context (unlimited by periods and national literatures). Satisfies GE C4/UD-3, G designation.

CAL 3440. Ideas in American Literature and Culture. Units: 3

A close examination of recurring key ideas in American culture, from Colonial times to the present, as seen in literature, poetry, and thought. Satisfies GE C4/UD-3.

CAL 3550. LGBTQ+ Issues in the Humanities. Units: 3

Explores the diversity of LGBTQ+ communities and issues through the various ways the community processes and documents experiences in the contexts of culture, expression, and identity. Examination of how LGBTQ+ identity intersects with other forms of difference, including ethnicity and socioeconomic status. The course will weave together, through discussion, critique, and research, a variety of texts, published personal narratives, popular media, fiction and students' own observed and lived experiences. Satisfies GE C4/UD-3, DI, G designations.

CAL 3700. African Arts Heritage. Units: 3

The various threads of arts and culture (visual arts, theatre, music, dance, and literature) are traced from their origins on the African continent through their cultural retention and presentation in the Americas from the 16th century to the present. Satisfies GE C4/UD-3, DI, G designations.

CAL 3750. Exploring the World of Islam. Units: 3

Semester Prerequisite: junior or senior standing
Exploration of classical and contemporary literary works from and about the Muslim World. Interpretation of different genres from scriptural, biographical, legal, socio-cultural, political, and multiple other sources. Formerly offered as HUM 375. Satisfies GE category C4; DI designation; G designation.

CAL 3888. Asian Humanities in a Globalized World. Units: 3

A close examination of various aspects of Asian humanities. Explores meanings, applications, and misconceptions of Asian thought, characteristics, practices and cultural traditions. Topics also include historical experiences and cultural contributions of Asian Americans to American society. Satisfies GE C4/UD-3, DI, G designations, Diversity and Social Justice, Global Connections minors, Diversity and Social Justice, Global Connections, World Cultures and Diversity pathways.

CAL 4000. The Artist Entrepreneur: Innovation and Leadership in the Arts. Units: 3

Answers the question what and who is an entrepreneur? Examines the creative intersection between entrepreneurship and the arts, and specifically addresses the basics of creativity, ideation, and the freedom mindset.

CAL 4100. The Artist Entrepreneur's Toolkit. Units: 3

Explores the nuts and bolts of small business management skills necessary for an entrepreneurial venture in the arts. Topics surveyed will include, but are not limited to, the basics of finance, accounting, taxation, and legal considerations such as copyright, in addition to marketing and advertising.

CAL 4200. Venture Ideation, Analysis, and Development in the Arts. Units: 3

Reviews the concept of ideation and examines the intersection between ideas and opportunities in the arts. Topics include, but are not limited to, pattern recognition, rapid opportunity analysis, resources, and the development of sustainable business models.

CAL 4300. The Artist Entrepreneur Launch. Units: 3

Semester Prerequisite: CAL 4000, CAL 4100, and CAL 4200
Examines the process and methods necessary for launching an entrepreneurial enterprise in the arts. Discusses the entrepreneurial and artistic qualities that are key to establishing a successful enterprise and career in the arts. Culminates in a practicum project for the minor Entrepreneurship in the Arts.

CAL 5751. Internship in Humanities. Unit: 1

Semester Prerequisite: One upper-division course in the humanities in the field in which the student will be working or equivalent or consent of instructor. Quarter Prerequisite: one upper-division course in the humanities in the field in which the student will be working or equivalent or consent of instructor
Supervised intensive work that requires advanced skills in the humanities in private or public organizations. Generally assumes 45 hours of work/study per unit of credit. A total of eight units may be applied toward graduation. Formerly HUM 575A.

CAL 5752. Internship in Humanities. Units: 2

Semester Prerequisite: One upper-division course in the humanities in the field in which the student will be working or equivalent or consent of instructor. Quarter Prerequisite: One upper-division course in the humanities in the field in which the student will be working or equivalent or consent of instructor
Supervised intensive work that requires advanced skills in the humanities in private or public organizations. Generally assumes 45 hours of work/study per unit of credit. A total of eight units may be applied toward graduation. Formerly HUM 575B.

CAL 5753. Internship in Humanities. Units: 3

Semester Prerequisite: One upper-division course in the humanities in the field in which the student will be working or equivalent or consent of instructor. Quarter Prerequisite: One upper-division course in the humanities in the field in which the student will be working or equivalent or consent of instructor
Supervised intensive work that requires advanced skills in the humanities in private or public organizations. Generally assumes 45 hours of work/study per unit of credit. A total of eight units may be applied toward graduation. Formerly HUM 575C.

CAL 5754. Internship in Humanities. Units: 4

Semester Prerequisite: One upper-division course in the humanities in the field in which the student will be working or equivalent or consent of instructor. Quarter Prerequisite: One upper-division course in the humanities in the field in which the student will be working or equivalent or consent of instructor

Supervised intensive work that requires advanced skills in the humanities in private or public organizations. Generally assumes 45 hours of work/study per unit of credit. A total of eight units may be applied toward graduation. Formerly HUM 575D.

CAL 5755. Internship in Humanities. Units: 5

Semester Prerequisite: One upper-division course in the humanities in the field in which the student will be working or equivalent or consent of instructor. Quarter Prerequisite: One upper-division course in the humanities in the field in which the student will be working or equivalent or consent of instructor

Supervised intensive work that requires advanced skills in the humanities in private or public organizations. Generally assumes 45 hours of work/study per unit of credit. A total of eight units may be applied toward graduation. Formerly HUM 575E.

CAL 5763. International Experience: Latin American Studies. Units: 3

Written research project based on traveling or living in a Spanish- or Portuguese-speaking country or community in Latin America. Research for the project will be completed in the country or community of choice. Project-based learning with service and exposure to international communities. Satisfies G designation.

CAL 5783. International Experience: Asian Studies. Units: 3

Written research project based on student's international experience. Research for the project will be completed in the Asian country or community of choice. Project-based learning with service and exposure to Asian communities. Satisfies G designation.

CAL 5823. International Experience: European Studies. Units: 3

Written research project based on traveling or living in a European country or community. Research for the project will be completed in the country or community of choice. Project-based learning with service and exposure to international communities. Graded Credit/No credit. Satisfies G designation.

CAL 5843. International Experience: African Studies. Units: 3

Written research project based on traveling or living in an African country or community. Research for the project will be completed in the country or community of choice. Project-based learning with service and exposure to international communities. Graded Credit/No credit. Satisfies G designation.

CAL 5951. Independent Study in the Humanities. Unit: 1

Semester Prerequisite: A minimum overall grade point average of 3.0 and consent of instructor. Quarter Prerequisite: A minimum overall grade point average of 3.0 and consent of instructor

Advanced study in the Humanities. Students must receive approval of a written proposal of a project submitted on a standard application filed in advance of the semester in which the course is to be taken. A total of ten units may be applied toward graduation. Formerly HUM 595A.

CAL 5952. Independent Study in the Humanities. Units: 2

Semester Prerequisite: A minimum overall grade point average of 3 and consent of instructor. Quarter Prerequisite: a minimum overall grade point average of 3 and consent of instructor

Advanced study in the Humanities. Students must receive approval of a written proposal of a project submitted on a standard application filed in advance of the semester in which the course is to be taken. A total of ten units may be applied toward graduation. Formerly HUM 595B.

CAL 5953. Independent Study in the Humanities. Units: 3

Advanced study in the Humanities. Students must receive approval of a written proposal of a project submitted on a standard application filed in advance of the semester in which the course is to be taken. A total of ten units may be applied toward graduation. Satisfies WI designation.

CAL 5954. Independent Study in the Humanities. Units: 4

Semester Prerequisite: A minimum overall grade point average of 3 and consent of instructor. Quarter Prerequisite: a minimum overall grade point average of 3 and consent of instructor

Advanced study in the Humanities. Students must receive approval of a written proposal of a project submitted on a standard application filed in advance of the semester in which the course is to be taken. A total of ten units may be applied toward graduation. Formerly HUM 595D.

CAL 5955. Independent Study in the Humanities. Units: 5

Semester Prerequisite: A minimum overall grade point average of 3 and consent of instructor. Quarter Prerequisite: a minimum overall grade point average of 3 and consent of instructor

Advanced study in the Humanities. Students must receive approval of a written proposal of a project submitted on a standard application filed in advance of the semester in which the course is to be taken. A total of ten units may be applied toward graduation. Formerly HUM 595E.

Chemistry (CHEM)

Courses

CHEM 1000. Introduction to Chemistry. Units: 3

Examination of chemistry and its value to contemporary society. Includes an introduction to important chemical principles, nomenclature, and molecular structure. Designed for those with little or no chemistry background desiring a broad overview of chemistry including liberal studies majors. Satisfies GE B1/5A.

CHEM 1000L. Introduction to Chemistry Laboratory. Unit: 1

Laboratory component that complements CHEM 1000. Introductory chemistry experiments and demonstrations. Common household materials utilized. Experiments designed to practice the scientific method including recording observations and measurements and drawing conclusions. Satisfies GE B3/5C. Materials fee required.

CHEM 1090L. Structures and Properties of Matter Laboratory. Unit: 1

Introduces basic chemical principles in an experimental setting in sufficient breadth and depth to meet the "Structures and Properties of Matter" area of the K-8 California Next Generation Science Standards. Lab periods will include one or more fundamental chemical concepts demonstrated using household chemicals. Safety in handling materials is an important aspect of the course. It is highly recommended that students in this course are currently enrolled in, or have already completed their GE Mathematics course. Materials fee required.

CHEM 1500. Succeeding in Chemistry and STEM. Units: 2

This course is intended to provide tools for new STEM students, particularly those with majors in the Department of Chemistry and Biochemistry, to ensure a successful academic and co-curricular experience. Topics include college success, expectations, resources, careers available for Chemistry & Biochemistry majors, how to navigate the majors, and tips/tools for success in STEM courses. Students will have the opportunity to meet and work with peers, and to meet upper class students and departmental faculty. Graded ABC/No Credit.

CHEM 2050. Survey of General Chemistry. Units: 3

Introduction to the fundamental concepts and basic calculations of chemistry, including the composition of matter, physical and chemical changes, nomenclature and formulas, stoichiometry, gases, solutions, acids and bases. Designed primarily for the student with little or no chemistry background who plans to take additional chemistry or other science courses. Satisfies GE B1/5A.

CHEM 2050L. Survey of General Chemistry Laboratory. Unit: 1

Semester Corequisite: CHEM 2050

Laboratory to accompany CHEM 2050. Experiments demonstrating general chemical principles, reactivity, physical and chemical properties, qualitative and quantitative analysis, and synthesis. Satisfies GE B3/5C. Materials fee required.

CHEM 2060. Survey of Organic and Biochemistry. Units: 4

Semester Prerequisite: CHEM 2050 or CHEM 2100. Quarter Prerequisite: CHEM 205 or CHEM 215

A survey of organic and biochemistry for those interested in understanding the role of chemistry in human health and nutrition, ecosystems and the physical environment. CHEM 2060 and CHEM 2060L are equivalent to CHEM 206 and CHEM 207; students may not earn credit for CHEM 2060 if they have earned credit for CHEM 206 and 207.

CHEM 2060L. Survey of Organic and Biochemistry Lab. Unit: 1

Semester Prerequisite: CHEM 2050 and CHEM 2050L; or CHEM 2100 and CHEM 2100L; and CHEM 2060 as a pre- or co-requisite; or consent of department. Quarter Prerequisite: CHEM 205 or CHEM 215

Laboratory experiments supporting topics in CHEM 2060. Materials fee required. CHEM 2060 and CHEM 2060L are equivalent to CHEM 206 and CHEM 207. Students may not earn credit for CHEM 2060L if they have earned credit for CHEM 206 and 207.

CHEM 2070. Fundamentals of General, Organic, and Biochemistry. Units: 5

Semester Prerequisite: One year of high school algebra

An introduction to the principles of general, organic and biochemistry for the nursing major. The course and laboratory covers the basic principles of general chemistry, organic functional groups, the properties and reactivities of the important biological molecules of carbohydrates, proteins, fats and nucleic acids, and their relationship to principles of biochemistry metabolism. Four hours lecture, three hours lab. Satisfies GE B1/5A and B3/5C. Materials fee required.

CHEM 2100. General Chemistry I. Units: 4

Semester Prerequisite: One year of high school chemistry and three years of high school mathematics or their equivalents and completion of the following MATH 1401 and MATH 1403, or MATH 1601, MATH 2210 as either a pre- or co-requisite. Quarter Prerequisite: one year of high school chemistry and three years of high school mathematics, or their equivalents; completion of, or concurrent enrollment in one of the following: MATH 110, MATH 120, MATH 192, MATH 211, or MATH 212

Systematic study of fundamental chemical and physical principles and their application to the properties of matter, including atomic structure, molecular structure and bonding, periodic trends in the properties of the elements, gas laws, solution properties, and quantitative relationships involving chemical reactions. Satisfies GE B1/5A.

CHEM 2100L. General Chemistry I Laboratory. Unit: 1

Experiments supporting, demonstrating, and investigating CHEM 2100 course material including density, chemical reactivity, chemical analysis, stoichiometry, and emission. Satisfies GE B3/5C.

CHEM 2200. General Chemistry II. Units: 4

Semester Prerequisite: CHEM 2100 with grade of C or better and one of the following: MATH 1301, MATH 1401, MATH 1601, MATH 2210, or MATH 2220. Quarter Prerequisite: CHEM 215 with a grade of C or better and MATH 111B or 112C. Quarter Prerequisite: CHEM 215 with a grade of C or better and MATH 111B or 112C

This course deals with the spontaneity, extent, and rate of chemical processes. Covers chemical thermodynamics, kinetics, equilibria, including acid-base and solubility equilibria, and electrochemistry. CHEM 2200 and 2200L are equivalent to Chem 216. Students may not earn credit for CHEM 2200 if they have earned credit for CHEM 216.

CHEM 2200L. General Chemistry II Laboratory. Unit: 1

Semester Prerequisite: CHEM 2100L, and CHEM 2200 as a pre- or co-requisite. Quarter Prerequisite: CHEM 215

Experiments supporting, demonstrating, and investigating CHEM 2200 course material including thermochemistry, kinetics, equilibria, solubility, acid-base reactions and electrochemistry. CHEM 2200 and 2200L are equivalent to Chem 216; students may not earn credit for CHEM 2200L if they have earned credit for CHEM 216. Materials fee required.

CHEM 2300. Organic Chemistry for Life Sciences. Units: 4

Semester Prerequisite: CHEM 2200 with a grade of C or better, and CHEM 2200L. Quarter Prerequisite: CHEM 216 with a grade of C or better

A one semester essential organic chemistry course for bio-STEM majors, with adequate rigor to prepare students for upper division biochemistry. Course topics include organic structure and nomenclature, isomerism, and reactivity with an emphasis on structure and reactions foundational for biochemistry. Pre-health professions students please check with your graduate program to determine if this course will be accepted. Students may not earn credit for CHEM 2300 if they have completed CHEM 2500 or CHEM 3500, or equivalent coursework.

CHEM 2400. Organic Chemistry I Lecture. Units: 3

Semester Prerequisite: CHEM 2200 with a C or better, and CHEM 2200L. Quarter Prerequisite: CHEM 215 with a grade of C or better and CHEM 216 with a grade of C or better

The chemistry of carbon compounds, including modern concepts of structure, mechanism, and reactivity. Emphasis is placed on compounds and reactions of biological interest; and includes an introduction to selected topics in biochemistry. Taking the lecture sequence (CHEM 2400 and CHEM 2500) without the lab sequence (CHEM 2400L and 2500L) is inappropriate for pre-medical, pre-dental and other pre-health professions students. Chemistry majors are expected to take the Principles of Organic Chemistry sequence (CHEM 3400 and CHEM 3500). Formerly part of the CHEM 221A, 222A, 223A sequence; students may not earn credit for CHEM 2400 if they have earned credit for CHEM 221A and 222A.

CHEM 2400L. Organic Chemistry I Laboratory. Unit: 1

Semester Prerequisite: CHEM 2200 with a C or better, and CHEM 2200L, CHEM 2300 or CHEM 2400 as pre or corequisites. Quarter Prerequisite: CHEM 215, CHEM 216, CHEM 221A, and CHEM 222A

An introduction to experimental techniques in organic chemistry including organic extraction, recrystallization, distillation, IR spectroscopy, and one step organic transformations. Part of the year-long organic chemistry lab series. Formerly part of the CHEM 221B, 222B, 223B sequence. Students earning credit for CHEM 221B and 222B may not earn credit for CHEM 2400L. Materials fee required.

CHEM 2500. Organic Chemistry II. Units: 3

Semester Prerequisite: CHEM 2400 with a grade of C or better. Quarter Prerequisite: CHEM 221A & 222A with a grade of C or better

A continuation of CHEM 2400. Topics may include carbonyl chemistry, mechanisms, synthesis, and bio-molecules. Formerly part of the CHEM 221A, 222A, 223A sequence; students may not earn credit for CHEM 2500 if they have earned credit for CHEM 222A and 223A.

CHEM 2500L. Organic Chemistry II Laboratory. Unit: 1

Semester Prerequisite: CHEM 2400 with a C or better, and CHEM 2400L, CHEM 2500 as a pre or corequisite. Quarter Prerequisite: CHEM 221B and 222B with a C

Part of the year-long organic chemistry lab series (CHEM 2400L and 2500L). An introduction to performing organic transformations as well as techniques (such as IR and NMR spectroscopy) used to characterize organic small molecules. Formerly part of the CHEM 221B, 222B, 223B sequence. Students may not earn credit for CHEM 2500L if they have earned credit for CHEM 222B and CHEM 223B. Materials fee required.

CHEM 2901. Special Projects in Chemistry. Unit: 1

Quarter Prerequisite: Consent of instructor

Individual investigation, research, study or survey of selected problems. May be repeated for credit. Consent of instructor required. Formerly CHEM 295A. Materials fee required.

CHEM 2902. Special Projects in Chemistry. Units: 2

Quarter Prerequisite: consent of instructor

Individual investigation, research, study or survey of selected problems. May be repeated for credit. Consent of instructor required. Formerly CHEM 295B. Materials fee required.

CHEM 2903. Special Projects in Chemistry. Units: 3

Individual investigation, research, study or survey of selected problems. May be repeated for credit. Consent of instructor required. Materials fee required.

CHEM 3000. History of Science and Technology. Units: 3

A survey of the historical relationship between science, technology, and human civilization; society and culture - past, present, and future. Emphasis on the people, significant scientific discoveries, and technologies that have influenced societal development from early humans to the present day. Case studies on the often non-linear way scientific discoveries and technological developments cause changes to human civilization and culture. A discussion of likely future scientific and technical challenges facing humankind. Satisfies GE B5/UD-5.

CHEM 3100. Chemistry and the Environment. Units: 3

Semester Prerequisite: B1/5A and 52/5B

Examination of current issues related to environmental chemistry including climate change, environmental justice, and soil, water, and air pollution. A primary focus will be on linkages between the environment, human activities, and socioeconomic factors. Satisfies GE B5/UD-5.

CHEM 3200. Quantitative Analysis. Units: 4

Semester Prerequisite: CHEM 2100 and CHEM 2200 with grades of C (2.0) or better, both CHEM 2100L and 2200L with a C- (1.7) or better. Quarter Prerequisite: CHEM 216 with a grade of C (2.0) or better

Volumetric, stoichiometric, and equilibrium calculations of acid-base, oxidation-reduction, complexation, and solubility systems. Laboratory measurements, data and error analysis. Introduction to spectrometric, electrochemical, and chromatographic methods. Three hours lecture and three hours laboratory. Formerly CHEM 345; students may not earn credit for CHEM 3200 if they have earned credit for CHEM 345. Materials fee required.

CHEM 3400. Principles of Organic Chemistry I. Units: 5

Semester Prerequisite: CHEM 2200 with a grade of C or better and CHEM 2200L with a grade of C- or better. Quarter Prerequisite: CHEM 215 and CHEM 216 with grades of C or better in each course
Detailed study of organic molecules and their structures, properties, stereochemistry, reaction mechanisms, and synthesis. Three hours lecture, one hour discussion, three hours laboratory. Formerly part of the CHEM 321, 322, 323 sequence; students may not earn credit for CHEM 3400 if they have earned credit for CHEM 321 and 322. Course is intended for Chemistry and Biochemistry majors. Department consent required. Materials fee required.

CHEM 3500. Principles of Organic Chemistry II. Units: 5

Semester Prerequisite: CHEM 3400 with a grade of C or better. Quarter Prerequisite: CHEM 322 with a grade of C or better
Continuation of CHEM 3400. Includes a discussion of topics such as: carbonyl chemistry, synthesis, and biological molecules. Three hours lecture and six hours laboratory. Formerly part of the CHEM 321, 322, 323 sequence; students earning credit for CHEM 322 and 323 may not earn credit for CHEM 3500. Course is intended for Chemistry and Biochemistry majors. Department consent required. Materials fee required.

CHEM 3600. Intermediate Organic Chemistry. Units: 5

Semester Prerequisite: CHEM 2500 and 2500L or equivalent course work. Quarter Prerequisite: CHEM 223A/B or equivalent course work
Organic reaction mechanisms, quantitative identification of organic compounds, and instrumental organic analysis. Three hours lecture and six hours laboratory. Formerly CHEM 421; students may not earn credit for CHEM 3600 if they have earned credit for CHEM 421. Departmental consent is required. Materials fee required.

CHEM 3900. Service Learning in Chemistry. Unit: 1

Semester Prerequisite: Course work pertinent to the service learning activity. Quarter Prerequisite: consent of instructor and pertinent course work
Supervised activities in chemistry or chemical education providing service to campus or community constituents. Department consent required. At least 45 hours required for credit. May be repeated for credit. Formerly CHEM 301. Graded Credit/No Credit.

CHEM 4100. Biochemistry I. Units: 3

Semester Prerequisite: Either CHEM 2300, CHEM 2500, or CHEM 3500 with a grade of C or better, and BIOL 2010. Quarter Prerequisite: CHEM 223A or CHEM 323 with a grade of C or better and BIOL 200
Structure and function of proteins, carbohydrates, and lipids. Membrane transport, enzyme mechanism and kinetics. Metabolism of biomolecules, including carbohydrate metabolism, fatty acid catabolism, and amino acid catabolism, as well as the citric acid cycle and oxidative phosphorylation. Formerly part of the CHEM 436A, 437A, 438A sequence; students may not earn credit for CHEM 4100 if they have earned credit for CHEM 436A and 437A.

CHEM 4100L. Biochemistry I Laboratory. Unit: 1

Semester Prerequisite: CHEM 2400L with a grade of C- (1.7) or better. CHEM 4100 as pre- or co-requisite
Introduction to experimental techniques in biochemistry, including determination of protein concentration, gel filtration chromatography, affinity chromatography, and enzyme kinetics. Department consent required. Materials fee required.

CHEM 4200. Biochemistry II. Units: 3

Semester Prerequisite: CHEM 4100 with a grade of C- or better. Quarter Prerequisite: CHEM 437A with a grade of C- or better
Fatty acid biosynthesis, amino acid biosynthesis, and nitrogen fixation. Nucleotide metabolism, DNA replication, DNA repair, transcription, protein synthesis, and gene regulation. Formerly part of the CHEM 436A, 437A, and 438A sequence; students may not earn credit for CHEM 4200 if they have earned credit for CHEM 437A and CHEM 438A.

CHEM 4200L. Biochemistry II Laboratory. Unit: 1

Semester Prerequisite: CHEM 4100L with a grade of C or better, CHEM 4200 is a pre or corequisite. Quarter Prerequisite: CHEM 436B and CHEM 437A
Protein purification techniques (ammonium sulfate precipitation, dialysis, and DEAE chromatography), enzyme kinetics and inhibition assays, DNA purification, and PCR. Formerly CHEM 437B. Students may not earn credit CHEM 4200L if they have earned credit for CHEM 437B. Materials fee required.

CHEM 4300. Inorganic Chemistry. Units: 4

Semester Prerequisite: CHEM 2500 or 3500, and CHEM 3200 with grades of C or better. Quarter Prerequisite: CHEM 223 or 323
Topics in inorganic chemistry, including molecular structure and bonding, symmetry, ionic structure and bonding, inorganic reactions, including acid base and oxidation-reduction reactions, coordination chemistry and bioinorganic chemistry. Three hours lecture and three hours laboratory. Laboratory component reinforces lecture material. Formerly Chem 475; students may not earn credit for CHEM 4300 if they have earned credit for CHEM 475. Materials fee required.

CHEM 4350. Bioinorganic Chemistry. Units: 3

Semester Prerequisite: CHEM 2500 or 3500 and CHEM 3200 with a grade of C (2.0) or better. Quarter Prerequisite: CHEM 223 or CHEM 323
Principles of inorganic chemistry emphasizing metals in biological systems. The first part of this course covers fundamentals of inorganic chemistry, including trends in chemical and physical properties of elements and compounds, molecular and ionic bonding, oxidation-reduction, acid-base chemistry, and coordination chemistry. The second part of this course covers physical techniques used to probe structure and activity, followed by a survey of the types of metalloproteins and their biological functions. Detailed case studies of selected metalloproteins. Formerly CHEM 470; students may not earn credit for CHEM 4350 if they have earned credit for CHEM 470.

CHEM 4400. Physical Chemistry I. Units: 3

Semester Prerequisite: CHEM 3200 with a grade of C (2.0) or better; MATH 2220 with a grade of C (2.0) or better; Pre- or Co-requisites: PHYS 2010 and 2010L, or PHYS 2510 and 2510L. Quarter Corequisite: PHYS 223. Quarter Prerequisite: CHEM 345 with a grade of C (2.0) or better; MATH 213 with a grade of C (2.0) or better; and must have completed PHYS 123 or may take PHYS 223

Semester Corequisite: PHYS 2010 and 2010L or PHYS 2510 and 2510L

Non-ideal gases, thermodynamics, properties of solutions, phase equilibria, chemical equilibria, electrochemistry, gas kinetics, chemical kinetics and molecular reaction dynamics. Formerly part of the CHEM 455 and CHEM 456 sequence; students may not earn credit for CHEM 4400 if they have earned credit for CHEM 455.

CHEM 4500. Physical Chemistry II. Units: 3

Semester Prerequisite: CHEM 4400. Quarter Prerequisite: CHEM 455

Molecular energies, quantum mechanics, application of quantum theory to molecular energy levels, atomic structure, molecular orbital theory, statistical thermodynamics, complex reactions. Formerly part of the CHEM 455 and CHEM 456 sequence; students may not earn credit for CHEM 4500 if they have earn credit for CHEM 456. Students are recommended to take MATH 2310.

CHEM 4550. Physical Chemistry Laboratory. Unit: 1

Semester Prerequisite: CHEM 4400, and CHEM 4500 as a pre- or co-requisite

Heat of combustion, Joule-Thomson effect, enthalpy of evaporation, ionic strength, UV-vis spectrum of conjugate dye, FTIR spectrum of HCl/DCl gases, kinetics of hydrolysis of sucrose, NMR study of paramagnetic susceptibility. Formerly part of the CHEM 455 and CHEM 456 sequence; students may not earn credit for CHEM 4550 if they have earned credit for CHEM 455 and 456. Materials fee required.

CHEM 4600. Physical Chemistry for Biochemists I. Units: 3

Semester Prerequisite: CHEM 3200 with a grade of C (2.0) or better and MATH 2220; Pre- or Co-requisites: CHEM 4100 and 4100L, and either PHYS 2010 and 2010L, or PHYS 2510 and 2510L. Quarter Prerequisite: CHEM 345, CHEM 436A, and CHEM 436B with grades of C (2.0) or better; MATH 213; and PHYS 123 or PHYS 223

Thermodynamics of single and multi-component systems, electrochemistry, properties of non-electrolyte and electrolyte solutions, phase equilibria, molecular motion and transport properties, with an emphasis on biomolecular systems. Formerly part of the CHEM 451 and CHEM 452 sequence. Students may not earn credit for CHEM 4600 if they have earned credit for CHEM 451.

CHEM 4700. Physical Chemistry for Biochemists II. Units: 3

Semester Prerequisite: CHEM 4600. Quarter Prerequisite: CHEM 451

Kinetics with an emphasis on biomolecular systems. Quantum mechanical and physical principles as applied to molecular structure and spectroscopy. Formerly part of the CHEM 451 and CHEM 452 sequence. Students may not earn credit for CHEM 4700 if they have earned credit for CHEM 452. Students are recommended to take MATH 2310.

CHEM 4750. Physical Chemistry for Biochemists Laboratory. Unit: 1

Semester Prerequisite: CHEM 4600 as either a pre-or co-requisite

Physical chemical experiments illustrating principles of thermodynamics, kinetics, quantum chemistry, and spectroscopy, with an emphasis on biomolecular systems. Formerly part of the CHEM 451 and CHEM 452 sequence. Students may not earn credit for CHEM 4750 if they have earned credit for CHEM 451 and 452. Materials fee required.

CHEM 4800. Chemistry Foundations for Material Science. Units: 3

Semester Prerequisite: Admission to MS Materials Science program or permission of instructor

Foundational concepts in chemistry needed for materials science. Concepts to be addressed include atomic structure, periodic trends, stochiometry, thermodynamics and kinetics, bonding, intermolecular forces, molecular orbital theory, functional groups, common chemical transformations, structure and synthesis of polymers, bonding in inorganic chemistry, solid state, coordination chemistry, and organometallic chemistry. This course may not be taken as an elective in the BA or BS Chemistry Major, or for the Chemistry minor. Department consent required. Course graded ABC/No credit.

CHEM 5001. Topics in Chemistry. Unit: 1

Quarter Prerequisite: Consent of instructor

Lecture course on an advanced or contemporary chemistry topic. Consent of instructor required. May be repeated for credit as topics change. Formerly CHEM 500.

CHEM 5001L. Topics in Chemistry Laboratory. Unit: 1

Quarter Prerequisite: Vary with topic, consent of instructor

Laboratory course on an advanced or contemporary chemistry topic. Course designed to supplement either CHEM 5001 or CHEM 5002 lecture courses. Consent of instructor required. May be repeated for credit as topics change. Materials fee required.

CHEM 5002. Topics in Chemistry. Units: 2

Quarter Prerequisite: Varies by topic; consent of instructor

Lecture course on an advanced or contemporary chemistry topic. Consent of instructor required. May be repeated for credit as topics change.

CHEM 5100. Polymer Science. Units: 2

Semester Prerequisite: CHEM 2500 or 3500 with grades of C- (1.7) or better; PHYS 2010 or 2510 with grades of C- (1.7) or better; Math 2210 with a grade of C- (1.7) or better. Quarter Prerequisite: CHEM 223 or 323; PHYS 122 or 222; Math 212

This course will broadly cover polymer science and technology, including the synthesis, solid-state properties, degradation, processing of polymers, and advanced polymers. It will introduce the fundamentals of the chemistry, physics and engineering of polymers, encompassing both theoretical background and experimental techniques. Formerly a topic under CHEM 500; students may not earn credit for CHEM 5100 if they have earned credit for this topic under CHEM 500.

CHEM 5150. Materials Chemistry. Units: 2

Semester Prerequisite: CHEM 2500 or CHEM 3500 with a grade of C or better. Prerequisite: CHEM 223A or CHEM 323 with a grade of C or better

An introduction to the chemistry of materials. A qualitative overview of the role of chemistry in the broader discipline of materials science. The relationship between composition, structure and bonding at the atomic and molecular level and macroscopic properties. An overview of common materials characterization techniques. Coverage of the basic classes of materials, metals and alloys, ceramics and glasses, small molecular solids, polymers, semiconductors, and composite materials. Introduction to Crystal Systems and Bravais lattices. Materials manufacturing methods. As time permits, advanced topics such as superconductors, band gap theory, optical and photonic materials, biomedical applications and nanotechnology may also be covered. Formerly a topic under CHEM 500; students may not earn credit for CHEM 5150 if they have earned credit for this topic under CHEM 500.

CHEM 5200. Instrumental Analysis. Units: 5

Semester Prerequisite: CHEM 3200 with a C or better, and either CHEM 2500 or CHEM 3500 with grades of C or better; PHYS 2010 and 2010L, or PHYS 2510 and 2510L. Quarter Prerequisite: CHEM 345 with a C or better and either CHEM 223 or CHEM 323 with grades of C or better; PHYS 123 or PHYS 223

Principles and techniques of instrumental chemical analysis. Methods include molecular UV-VIS absorption, fluorescence, infrared, and NMR spectroscopy; electrothermal atomic absorption spectrometry; high performance liquid chromatography; gas chromatography/mass spectrometry; capillary electrophoresis; potentiometry and voltammetry. Three hours lecture and six hours laboratory. Formerly CHEM 545; students may not earn credit for CHEM 5200 if they have earned credit for CHEM 545. Materials fee required.

CHEM 5300. Environmental Chemistry. Units: 3

Semester Prerequisite: CHEM 3200, and either CHEM 2300, 2500, or 3500. Prerequisite: CHEM 345 and either CHEM 223 or CHEM 323

Chemical principles governing the natural composition and pollution of the atmosphere, hydrosphere, soils and sediment. Includes energy use and its environmental consequences, toxic chemicals, purification/remediation schemes, waste and soil management. Formerly a topic under CHEM 500; students may not earn credit for CHEM 5300 if they have earned credit for Environmental Chemistry taught as a topic under CHEM 500.

CHEM 5320. Atmospheric Chemistry. Units: 3

Semester Prerequisite: One year of general chemistry and one course in organic chemistry, Recommended, one course in quantitative analysis

An overview of the sources, sinks, chemistry and measurements of atmospheric species and their application to the natural atmosphere, climate change, air pollution, air quality management, and stratospheric ozone depletion. Projects will focus on understanding the connections between chemistry, meteorology, geography and socioeconomic factors that affect California and global air quality.

CHEM 5400. Chemistry of the Elements. Units: 3

Semester Prerequisite: CHEM 3200 with a C or better, and either CHEM 2500 or 3500 with a grade of C or better. Quarter Prerequisite: CHEM 345 with a C or better, and either CHEM 223 or 323 with a grade of C or better

Survey of the chemistry of the main group elements, including the sources, production, and properties of the elements and their compounds. Particular attention is given to the periodic trends in physical and chemical properties. Other topics include inorganic polymers and materials, and organometallic chemistry. Formerly CHEM 576; students may not earn credit for CHEM 5400 if they have earned credit for CHEM 576.

CHEM 5410. Solid State Chemistry. Units: 3

Semester Prerequisite: Required: One year of general chemistry (CHEM 2100 and 2200) and one course in quantitative analysis (CHEM 3200). Recommended Prerequisite or Corequisite: Inorganic Chemistry (CHEM 4300 or 4350) and Physical Chemistry (CHEM 4400 or 4600) or permission of the instructor

This course covers various topics in the field of Solid State Chemistry. Areas of emphasis include structural principles, synthetic strategies and approaches, important characterization methods, and concepts of chemical bonding and electronic structure theory. Structural principles involving point groups, space groups, and the International Tables of Crystallography; synthetic strategies including phase diagrams and chemical vapor transport/equilibria; characterization methods utilizing photoelectron spectroscopy and X-ray diffraction; and chemical bonding via Density Functional Theory will be discussed in detail. Additional subtopics may rely on current literature. Throughout the course, various physical properties may be mentioned as they relate to structural-electronic structural features. Some exposure to inorganic/physical chemistry along with a background in quantum mechanics may be useful.

CHEM 5420. Pyrotechnics. Unit: 1

Semester Prerequisite: CHEM 3200 with a C or better. Prerequisite: CHEM 345 with a C or better

The history of pyrotechnics from the discovery of gunpowder in China, and its development and use in the west as propellent and explosive in fireworks, to the chemistry, theory and practice of other high energy compositions used in fireworks today. Formerly a topic under CHEM 500; students may not earn credit for CHEM 5420 if they have earned credit for Pyrotechnics taught as a topic under CHEM 500.

CHEM 5500. Medicinal Chemistry. Units: 2

Semester Prerequisite: Chem 2400 or Chem 3400 with grade of C or better; Pre- or Co-Requisite of Chem 2500 or 3500, or consent of instructor. Prerequisite: CHEM 222 or CHEM 322 with a grade of C or better; Pre- or Co-requisite of CHEM 223 or CHEM 323, or consent of instructor

Examines the interplay between organic chemistry and biochemistry. Topics will include: drug absorption, distribution, and elimination; drug metabolism; theories of drug receptor interactions; and structure-activity relationships for a number of drug classes. Departmental consent required. Formerly a topic under Chem 500; students may not earn credit for CHEM 5500 if they have earned credit for Medicinal Chemistry taught as a topic under CHEM 500.

CHEM 5550. Computational Chemistry. Units: 2

Semester Prerequisite: Chem 2400 or 3400. Prerequisite: Chem 321 or Chem 221A/B

Application of computational approximations to model chemical structure, reactivity, and properties. Survey of commonly used computational methods: semi-empirical, ab initio, and density functional theory, including a qualitative understanding of the strengths and weaknesses of each, and how to choose the appropriate computational technique to solve a problem at hand. Significant hands-on practice using modern software. Formerly a topic under CHEM 500; students may not earn credit for CHEM 5550 if they have earned credit Computational Chemistry taught as a topic under CHEM 500.

CHEM 5700. Biochemistry III Laboratory. Units: 2

Semester Prerequisite: CHEM 4200L with a grade of C or better, Must be a BS Biochemistry Concentration major. Quarter Prerequisite: CHEM 437B with a grade of C or better, Must be a BS Biochemistry Concentration major

Continuation of CHEM 4200L. This is a research-based course where students will learn how to use sequence and structure analysis tools. Students will also perform site-directed mutagenesis and cell culture-based assays. Formerly 438B. Students may not earn credit for CHEM 5700 if they have earned credit for CHEM 438B. Materials fee required.

CHEM 5751. Internship in Chemistry. Unit: 1

Quarter Prerequisite: course work appropriate to the specific internship and consent of department

Supervised work and study in applied chemistry in an on- or off-campus setting. Final written report may be required. Department consent required. A maximum of 3 units may be applied toward the degree. Graded credit/no credit. Formerly offered as CHEM 575A.

CHEM 5752. Internship in Chemistry. Units: 2

Quarter Prerequisite: course work appropriate to the specific internship and consent of department

Supervised work and study in applied chemistry in an on- or off-campus setting. Final written report may be required. Department consent required. A total of three units of Internship may be applied towards obtaining a bachelors degree and a total of five units may be applied towards obtaining a masters degree. Graded credit/no credit. Formerly offered as CHEM 575B.

CHEM 5753. Internship in Chemistry. Units: 3

Quarter Prerequisite: course work appropriate to the specific internship and consent of department

Supervised work and study in applied chemistry in an on or off campus setting. Final written report may be required. Department consent required. A maximum of 3 units may be applied toward the degree. Graded credit/no credit. Graded credit/no credit. Formerly offered as CHEM 575C.

CHEM 5800. Chemistry Seminar. Unit: 1

Semester Prerequisite: Both CHEM 3200 and either CHEM 2500 or 3500 with grades of C or better, Must have completed 90 units towards degree. Quarter Prerequisite: Twelve upper-division units in chemistry, and NSCI 306 or equivalent

Discussion of selected journal articles and the primary chemical literature. Oral student presentations; faculty and guest speakers; students reflect on previous coursework. BS Chemistry Concentration students propose projects for CHEM 5850 or CHEM 5860. BA and BS Biochemistry Concentration students present topics of their own choosing. Formerly CHEM 590B. Students may not earn credit for CHEM 5800 if they have earned credit for CHEM 590B.

CHEM 5850. Chemistry Senior Project. Unit: 1

Semester Prerequisite: CHEM 5800; student must be a BS Chemistry Concentration major. Prerequisite: CHEM 590A

Students conduct projects proposed in CHEM 5800 and present results at end of course. Consent of instructor required. Materials fee required.

CHEM 5860. Chemistry Senior Research. Unit: 1

Semester Prerequisite: CHEM 5800

Students conduct research with a faculty member and present results at the end for the purpose of meeting the final requirements for the B.S. Chemistry Concentration degree. Consent of instructor required. Materials fee required.

CHEM 5901. Directed Laboratory Research. Unit: 1

Study and practice of an advanced laboratory technique or directed research in chemistry. May be repeated for credit. Formerly CHEM 501A. Consent of instructor required. Materials fee required.

CHEM 5902. Directed Laboratory Research. Units: 2

Quarter Prerequisite: the basic course covering the subject of the Advanced Laboratory Techniques course and consent of instructor

Study and practice of an advanced laboratory technique or directed research in chemistry. May be repeated for credit. Consent of instructor required. Formerly CHEM 501B. Materials fee required.

CHEM 5903. Directed Laboratory Research. Units: 3

Study and practice of an advanced laboratory technique or directed research in chemistry. May be repeated for credit. Consent of instructor required. Materials fee required.

CHEM 5951. Independent Study. Unit: 1

Semester Prerequisite: Appropriate coursework as determined by the instructor, Submission and approval of a project proposal, filed one semester in advance of when the course is taken. Quarter Prerequisite: A minimum overall grade point average of 2

Laboratory, field, or computational research, data analysis, and/or literature research conducted under the direction of a faculty member. Department consent and final written report required. Consent of instructor required. Formerly 595A. Materials fee required.

CHEM 5952. Independent Study. Units: 2

Semester Prerequisite: Appropriate coursework as determined by the instructor, Submission and approval of a project proposal, filed one semester in advance of when the course is taken. Quarter Prerequisite: A minimum overall grade point average of 2

Laboratory, field, or computational research, data analysis, and/or literature research conducted under the direction of a faculty member. Department consent and final written report required. Consent of instructor required. Formerly CHEM 595B. Materials fee required.

CHEM 5953. Independent Study. Units: 3

Semester Prerequisite: Appropriate coursework as determined by the instructor, Submission and approval of a project proposal, filed one semester in advance of when the course is taken. Quarter Prerequisite: A minimum overall grade point average of 2

Laboratory, field, or computational research, data analysis, and/or literature research conducted under the direction of a faculty member. Department consent and final written report required. Consent of instructor required. Formerly CHEM 595C. Materials fee required.

CHEM 5971. Directed Study in Science Education. Unit: 1

Readings, internet, library research in chemical education; or a directed project on pedagogical approaches applied to teaching chemistry; and/or exploration of content knowledge in a specific area of chemistry for delivery to a specific audience. Conducted under the direction of a faculty member. Department consent required. Formerly CHEM 597. May be repeated for credit. Graded Credit/No Credit.

CHEM 5972. Directed Study in Science Education. Units: 2

Readings, internet, library research in chemical education; or a directed project on pedagogical approaches applied to teaching chemistry; and/or exploration of content knowledge in a specific area of chemistry for delivery to a specific audience. Conducted under the direction of a faculty member. Department consent required. May be repeated for credit. Graded Credit/No Credit.

CHEM 5973. Directed Study in Science Education. Units: 3

Readings, internet, library research in chemical education; or a directed project on pedagogical approaches applied to teaching chemistry; and/or exploration of content knowledge in a specific area of chemistry for delivery to a specific audience. Conducted under the direction of a faculty member. Department consent required. May be repeated for credit. Graded Credit/No Credit.

CHEM 5990. Undergraduate Comprehensive Examination. Units: 0

Semester Prerequisite: Student must be a BS chemistry major within two semesters of graduation. Quarter Prerequisite: Student must be a chemistry major within three quarters of graduation

Assessment of the student's mastery of four of the five content areas of chemistry depending on the major concentration area; and/or an overall assessment of integrated undergraduate chemistry knowledge; demonstration of critical and independent thinking in chemistry. Department consent required. Formerly CHEM 599. Graded Credit/No Credit.

CHEM 6000. Advanced Environmental Chemistry and Geosciences. Units: 4

Semester Prerequisite: classified standing in either the Master of Science in Geology or Master of Science in Environmental Sciences program, or consent of instructor

Application of earth science principles to the properties of the natural environment and the effects of human and biological activities thereon. Topics include geohazards, erosion, geochemistry, sources and treatment of water, climate change, and the chemistry of environmental pollutants in air, water, and soil. Labs will feature hands-on studies of common methods used in environmental and geological analyses. Materials fee required. Formerly CHEM 610 and GEOL 610; students may not receive credit for both the quarter versions and this version.

CHEM 6752. Advanced Internship. Units: 2

Semester Prerequisite: CHEM 575, CHEM 5751, CHEM 5752, CHEM 5753, GEOL 575, GEOL 5751, GEOL 5752 or GEOL 5753. Prerequisite: CHEM 575 or GEOL 575 and consent of advisor

Supervised work or study in private or public organizations. Department consent required. Graded Credit/No Credit. Formerly CHEM 697. Students may not receive credit for both courses.

CHEM 6753. Advanced Internship. Units: 3

Semester Prerequisite: CHEM 575, CHEM 5751, CHEM 5752, CHEM 5753, GEOL 575, GEOL 5751, GEOL 5752 or GEOL 5753. Quarter Prerequisite: CHEM 575 or GEOL 575 and consent of advisor

Supervised work or study in private or public organizations. Departmental consent required. Graded Credit/No Credit. Formerly CHEM 697. Students may not receive credit for both courses.

CHEM 6900. Graduate Seminar. Units: 2

Current and past student project investigations in the M.S. Environmental Science and Geology programs, including presentation of project implications for the general public and professional non-scientific constituents such as business, law, policy, and public health. Formerly offered as CHEM/GEOL 690, students may not receive credit for both courses. Two hours seminar.

CHEM 6940. Graduate Research Methods and Design. Units: 3

Quarter Prerequisite: Classified standing in the master of science program in geology or environmental sciences, and consent of instructor

Critical literature review and preparation of a master's thesis or project research proposal following program guidelines. Supervised by the student's thesis/project adviser. Graded credit/no credit upon approval of the student's thesis/project committee.

CHEM 6950. Directed Graduate Research in Chemistry. Units: 3

Semester Prerequisite: classified standing in masters program and consent of advisor. Quarter Prerequisite: classified standing in masters program and consent of advisor

Original individual research in environmental chemistry; to be conducted under the direct supervision of a faculty member of the students committee, and if desired in collaboration with other members of the students masters committee. Materials fee required. Formerly offered as Chem 695D.

CHEM 6960. Graduate Project in Chemistry. Units: 3

Semester Prerequisite: Classified standing. Quarter Prerequisite: Classified standing and consent of instructor

Original individual research in chemistry, to be conducted under the guidance of the student's graduate advisor, and if desired, in collaboration with other members of the student's master's committee. Department consent required. Graded credit/no credit. Formerly CHEM 696.

CHEM 6970. Graduate Thesis. Units: 3

Semester Prerequisite: CHEM 6950. Quarter Prerequisite: CHEM 695 or GEOL 695

Independent graduate research conducted under guidance of the major advisor culminating in a written thesis. Formerly offered as CHEM 699.

CHEM 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CHEM 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CHEM 6992. Continuous Enrollment for Graduate Candidacy Standing. Units: 2

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CHEM 6993. Continuous Enrollment for Graduate Candidacy Standing. Units: 3

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CHEM 6994. Continuous Enrollment for Graduate Candidacy Standing. Units: 4

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CHEM 6995. Continuous Enrollment for Graduate Candidacy Standing. Units: 5

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CHEM 6996. Continuous Enrollment for Graduate Candidacy Standing. Units: 6

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

Chinese (CHIN)

Courses

CHIN 1101. Introduction to Chinese Activity Lab. Unit: 1

Guided conversation and listening practice. Activities correspond with CHIN 1110. Graded CR/NC.

CHIN 1102. College Chinese II Activity Lab. Unit: 1

Semester Corequisite: CHIN 1112: College Chinese II or consent of department

Guided conversation and listening practice. Activities correspond with CHIN 1112.

CHIN 1111. College Chinese I. Units: 3

Introduction to beginning level Mandarin Chinese, including the basic structures of the written language: the sound system of modern Chinese; oral comprehension, oral expression, basic patterns practice, and the writing system. Develop cultural awareness to communicate on a basic level. Formerly CHIN 101. Materials fee required.

CHIN 1112. College Chinese II. Units: 3

Semester Prerequisite: 2 years high school language study, placement exam, equivalent college-level course (eg CHIN 1111) or consent of department

Develops listening and speaking skills in Mandarin Chinese with emphasis on reading and writing skills. Emphasis on negotiating routine social situations and more complex tasks. Satisfies GE C2/3B, DI, G designations. Materials fee required.

CHIN 2000. Introduction to Chinese Civilization. Units: 3

Introductory survey of various aspects of Chinese civilization with an emphasis on its unique cultural qualities. Satisfies GE C2/3B, DI, G designations. Taught in English.

CHIN 2100. Chinese Culture Through Film. Units: 3

Understanding the culture, values, literature, society and history of China, Taiwan and Hong Kong through films. Compare and contrast cultures and increase cross-cultural awareness. Films will be appreciated, analyzed and discussed for their aesthetic forms, customs, and religions in an historical context. Materials fee required.

CHIN 2111. College Chinese III. Units: 4

Semester Prerequisite: CHIN 1112. Quarter Prerequisite: CHIN 103

Further study of the Mandarin Chinese language to attain proficiency in four language skills: listening, speaking, reading and writing. Students will improve fluency from class discussion on a variety of topics including social issues and aspects of Chinese culture. Formerly CHIN 201. Materials fee required.

CHIN 2112. College Chinese IV. Units: 4

Semester Prerequisite: CHIN 2111. Quarter Prerequisite: CHIN 201 or consent of department

Further study of the Mandarin Chinese language to attain proficiency in four languages skills: listening, speaking, reading and writing. Students will improve fluency from class discussion on a variety of topics including social issues and aspects of Chinese culture. Formerly CHIN 202. Materials fee required.

CHIN 2113. Chinese Calligraphy. Units: 3

This course introduces students to the origin of the basic Chinese scripts and the basic principles and styles of calligraphy. Students will learn the seven brush strokes for writers and the evolution of Mandarin Chinese characters from ancient ideograms to modern written characters. Formerly CHIN 210. Materials fee required.

CHIN 2114. Conversation in Chinese. Units: 3

Semester Prerequisite: CHIN 1112. Quarter Prerequisite: CHIN 103 or equivalent

Practice of oral Chinese including current topics, panel discussions, debates, and oral presentations. Students will become familiar with day-to-day social and business expressions. Formerly CHIN 214. Materials fee required.

CHIN 2900. Chinese Literature in Translation. Units: 3

Introduction to Chinese literature read in English translation, including the classical styles, selections from classical style writings, contrastive analysis of modern and classical Chinese, translation and writing practice. Satisfies GE C2/3B, DI, G, designations. Materials fee required.

CHIN 4409. Business Chinese. Units: 3

Introduction to business vocabulary, practices, and socioeconomic issues in Chinese-speaking contexts. Formerly CHIN 409. Materials fee required.

Criminal Justice (CJUS)

Courses

CJUS 1101. Introduction to the Criminal Justice System. Units: 3

Semester Prerequisite: Must be a declared major or minor in Criminal Justice, Intelligence and Crime Analysis, or Social Work

A descriptive overview of the adult and juvenile justice system, from the commission of crimes and offenses through sentencing and appeal procedures. Criminal justice standards and goals and the relationship of the social and behavioral sciences to criminal justice will be emphasized.

CJUS 1102. Criminal Law. Units: 3

Historical development of criminal law and its contemporary application. Focus on the interrelationship between criminal law and the criminal justice system. Formerly offered as CJUS 102.

CJUS 1106. Criminal Investigations. Units: 3

Semester Prerequisite: Must be a declared major or minor in Criminal Justice or Intelligence and Crime Analysis

Examination of crime, evidence, and police procedures in investigating crimes such as conventional street crime, organized crime, and white collar crime.

CJUS 3311. Research Methods in Criminal Justice. Units: 3

Semester Prerequisite: CJUS 1101, CJUS 1102, and CJUS 3320, with grades of "C" or better

Introduction to scientific methodology and research designs used to conduct basic and applied research in the criminal justice field. Emphasis on scientific operationalization, survey methodology, and concepts of evaluation design.

CJUS 3312. Statistics in Criminal Justice. Units: 3

Semester Prerequisite: MATH 1201 and CJUS 3311, and CJUS 3320 with grade of "C" or better

Introduction to statistical reasoning and social science statistics commonly used in criminal justice. Includes descriptive, inferential, and predictive statistics, with emphasis on calculation and interpretation.

CJUS 3320. Theories of Crime and Delinquency. Units: 3

Semester Prerequisite: Must be a declared major or minor in Criminal Justice or major in Intelligence and Crime Analysis. CJUS 1101 and CJUS 1102, with grades of "C" or better

Traces the evolution of theoretical criminology as a scientific discipline with focus on measurement, patterns, causes, and social explanations of criminal and deviant behaviors.

CJUS 3330. Correctional Theory and Institutions. Units: 3

Semester Prerequisite: Must be a declared major or minor in Criminal Justice. CJUS 1101, CJUS 1102, and CJUS 3320, with grades of "C" or better

History and theory of punishment; overview of history of correctional institutions; analysis and evaluation of contemporary institutional corrections; consideration of research concerning correctional institutions.

CJUS 3340. Police and Police Systems. Units: 3

Semester Prerequisite: Must be a declared major or minor in Criminal Justice or Intelligence and Crime Analysis. CJUS 1101, CJUS 1102, and CJUS 3320, with grades of "C" or better

Analysis of: police, police systems, and the police role; limitations imposed on law enforcement in a democratic society in accordance with the Constitution; problems affecting crime control: and the interdependence of police and community.

CJUS 3350. Intelligence & Crime Analysis 1. Units: 3

Semester Prerequisite: Must be a declared major in Intelligence and Crime Analysis. CJUS 1101 and CJUS 1102, with grades of "C" or better

Overview of current analytical tools and techniques used by law enforcement to investigate and prevent crime. Topics will include collection, management, communications, and analysis of information. Through class activities and homework assignments, students will receive basic training in data management, network analysis, and spatial analysis, as well as the practical use of Microsoft Excel and Access.

CJUS 3354. Victimology. Units: 3

Semester Prerequisite: CJUS 3320 with a grade of C- or better. Quarter Prerequisite: CJUS 320

Victim role, criminal-victim relationships, and societal reaction to victimization, including crisis-intervention centers, court related victim/witness services, restitution and compensation. Formerly offered as CJUS 354.

CJUS 3370. Law and the Courts. Units: 3

Nature, functions, limitations and objectives of law, criminal courts, civil courts, the grand jury and petit jury, family law, and civil liability for police and correctional officers. Emphasis on practical legal problems confronting criminal justice system workers and administrators. Formerly offered as CJUS 370.

CJUS 3470. Crime Prevention. Units: 3

Semester Prerequisite: Must be a declared major in Intelligence and Crime Analysis or Criminal Justice. CJUS 1101 and CJUS 1102, with grades of "C" or better

Analysis of criminal acts as events, focusing on their patterns and how they can be prevented. This course examines topics such as problem oriented policing, situational crime prevention, crime analysis, environmental criminology, crime risks, and crime prevention through environmental design.

CJUS 4430. Correctional Administration. Units: 3

Semester Prerequisite: CJUS 3330 or equivalent. Quarter Prerequisite: CJUS 330 or equivalent

In-depth study of the administration and management of correctional agencies. Emphasis on organizational structure, functions and behavioral processes. Formerly offered as CJUS 430.

CJUS 4431. Community Corrections. Units: 3

Semester Prerequisite: CJUS 3320 with grade of "C" or better
Issues and trends in community based corrections; alternatives to incarceration including diversion, restitution, community treatment facilities, halfway houses, probation and parole. Developments such as house arrest, electronic monitoring, boot camps, and monetary sanctions. Examines risk assessment, case management and probation and parole officer roles. Special emphasis on the functions, strengths, and problems of community based programs.

CJUS 4435. Correctional Counseling. Units: 3

Semester Prerequisite: CJUS 3320 with grade of "C" or better
Examination of the history, theory, and practice of counseling services within the correctional setting. Topics include rehabilitation (research and application of findings), limitations of counseling, legal liabilities of counselors, and the integration of treatment with other correctional goals.

CJUS 4440. Police Administration. Units: 3

Semester Prerequisite: CJUS 3340 or equivalent. Quarter Prerequisite: CJUS 340 or equivalent
In-depth study of the administration and management of law enforcement agencies. Emphasis on organizational structure, functions, and behavioral processes. Formerly offered as CJUS 440.

CJUS 4441. Community Policing. Units: 3

Semester Prerequisite: CJUS 3320 with grade of "C" or better
Analysis of law enforcement strategies to secure cooperative police-community ventures aimed at enhancing community order and suppressing crime. Consideration of strategies designed to improve public relations.

CJUS 4451. Women and Crime. Units: 3

A critical study of women as offenders, victims, and workers within the criminal justice system. Satisfies GE D4/UD-4, DI designation.

CJUS 4452. White Collar Crime. Units: 3

Definition, history, extent, causes, consequences, and enforcement methods regarding white-collar, occupational, corporate, and governmental crime. Formerly offered as CJUS 452.

CJUS 4453. Gangs. Units: 3

Focus on gangs and the effects they have on society, including: historical development, recent trends, and review and evaluation of programs that attempt to prevent, intervene, and suppress gang activity. Formerly offered as CJUS 453.

CJUS 4460. Drugs and the Criminal Justice System. Units: 3

Study of the history and development of criminal justice policy concerning alcohol and illegal drugs; consideration of the manufacture, importation, distribution of illegal drugs; particular emphasis placed on the impact of alcohol and illegal drug use on communities and the criminal justice system. Formerly offered as CJUS 460.

CJUS 4462. Domestic Violence. Units: 3

Examination of violence in the family setting, including intimate partner violence, child abuse, and elder abuse. Topics include legal issues, criminal justice system response, and consequences for individuals, families, and the community. Formerly offered as CJUS 462.

CJUS 4465. Hate Crime, Law, and Policy. Units: 3

Analysis of the characteristics, prevalence, causes, and types of hate crimes in the United States. In addition, case law and statutes relating to hate crimes will be examined. Formerly offered as CJUS 465.

CJUS 4466. Justice and the Media. Units: 3

Examination of the relationship between criminal justice and the media, including consideration of the impact of the media on attitudes and perceptions of crime and criminals, the relationship of the media and crime control, and the impact of the media on the operations of the agencies in the criminal justice system. Formerly offered as CJUS 466.

CJUS 5504. Criminal Procedure. Units: 3

Semester Prerequisite: CJUS 3370
Examination of the rules governing criminal procedure. Impact of statutes and case law on criminal justice practitioners including the 4th, 5th, 6th, 8th, and 14th Amendments as they affect the accused, the convicted, and the employees working in the criminal justice system. Formerly offered as CJUS 3304.

CJUS 5506. Wildlife Crime. Units: 3

Crimes against wildlife are widespread, numerous and varied. They range from illegal trade, trapping and snaring, to poaching, injuring and killing. This course will provide an overview of the crimes committed against wildlife, with a special emphasis on the illegal trade of protected animals. Formally offered as a Topics course, CJUS 590D.

CJUS 5508. Preventing Crime in Transportation Systems. Units: 3

Semester Prerequisite: Must be a declared major in Intelligence and Crime Analysis or Criminal Justice. CJUS 3470
Transportation systems are critical to the movement of people and goods. This course will address safety and security challenges of transit settings, as well as ways to prevent crime in those environments.

CJUS 5550. Intelligence & Crime Analysis 2. Units: 3

Semester Prerequisite: CJUS 3470 and CJUS 3350 and CJUS 3311
Analysis of crime and intelligence data with current computer applications in order to assist criminal investigations, examine crime patterns, and resolve community crime problems. Analytical techniques include centrality and key player metrics, crime hotspots, telephone toll analysis, crime series investigation, forecasting, temporal analysis, and workload analysis.

CJUS 5554. Terrorism. Units: 3

Semester Prerequisite: Junior standing or higher
Characteristics and causes of terrorism emerging in the 21st century. An analysis from a criminal justice perspective of terror movements affecting the United States covering legal issues, investigations, and criminal profile.

CJUS 5555. Homeland Security. Units: 3

Semester Prerequisite: Junior standing or higher
Examination of homeland security events including radiological, biological, and chemical events. Emphasis will be given to prevention, preparedness, and response. The roles of local, state, and federal agencies are examined.

CJUS 5556. Transnational Organized Crime. Units: 3

Semester Prerequisite: Junior standing or higher
Overview of transnational crime, corruption and effects on the political, economic, and social development of countries around the world. Topics include international justice, drug trafficking, human trafficking, and war crimes.

CJUS 5560. Crime Pattern Detection. Units: 4

Semester Prerequisite: CJUS 3350 and CJUS 3470 and CJUS 3311
Concepts and applications of geographic information systems and other technologies to investigate and predict spatial-temporal clusters of crimes and high risk places, as well as forecasting emerging crime problems. Formerly offered as CJUS 560.

CJUS 5570. Crime in Public Spaces. Units: 3

Semester Prerequisite: CJUS 3350 and CJUS 3470 and CJUS 3311
Field research on the interrelationship between the built urban environment and crime. Involvement in a community project to study public places that generate and attract crime in order to develop creative solutions. Formerly offered as CJUS 570.

CJUS 5571. Social Network Analysis. Units: 3

Semester Prerequisite: CJUS 3350 and CJUS 3470 and CJUS 3311
Applied network analysis provides visual and statistical procedures for examining the structural integrity of criminal networks - transnational illicit markets, corporate interlock, terrorism, co-offending, and serial crime investigation. Analytic techniques covered include: centrality analysis, network fragmentation methods, egonets, affiliation networks, and advanced, multivariate modeling techniques. 2-hours lecture and 1-hour professional process activity. Formerly offered as CJUS 571.

CJUS 5580. Juvenile Justice. Units: 3

Semester Prerequisite: CJUS 3320 with grade of C or better, and Junior status or higher
History and development of the juvenile justice system. Includes review of current patterns and theories of juvenile crime and policy.

CJUS 5585. Life Course Criminality. Units: 3

Examination of factors influencing criminality across the life span from prenatal to elderly stages of life; emphasis on physiological, developmental, social and environmental factors. Formerly offered as CJUS 585.

CJUS 5591. Cyber Security. Units: 3

Semester Prerequisite: Junior, senior, or graduate standing
Cyber Security - This course provides an overview of Cybersecurity. This course examines the concept, framework, and applications of Cybersecurity, as well as analyzes the relevant historical background and current critical issues. The focus of the course will center on Cybersecurity and relevant security issues. Students will be exposed to a spectrum of activities, methods, and case studies with emphasis on practical aspects of Cybersecurity.

CJUS 5597. Senior Honors Project. Units: 3

Original research in an area of criminal justice studies, culminating in a major research report receiving approval of the criminal justice faculty. Enrollment limited to students whose formal application for departmental honors is approved. Formerly offered as CJUS 597.

CJUS 5598. Integrative Studies in Criminal Justice. Units: 3

Semester Prerequisite: CJUS 3311, CJUS 3320 with a grade of C- or better, Senior or Graduate standing required. Quarter Prerequisite: CJUS 311 and CJUS 320 and completion of Pre-Criminal Justice requirements must be fulfilled
Overview and integration of major issues in criminal justice. Cannot be counted toward the MA in Criminal Justice; however, it is a prerequisite for Criminal Justice graduate students who do not have a Bachelor's degree in Criminal Justice. Senior or Graduate standing required. Formerly offered as CJUS 598.

CJUS 5753. Internship in Criminal Justice. Units: 3

Semester Prerequisite: Consent of the Internship Coordinator. Quarter Prerequisite: consent of internship coordinator
Supervised Criminal Justice related work and study in private or public organizations. Open only to Criminal Justice majors. May be taken two times for six units. Graded credit/no credit. Formerly offered as CJUS 575.

CJUS 5901. Topics in Criminal Justice. Unit: 1

Semester Prerequisite: Junior, senior, or graduate standing. Quarter Prerequisite: junior, senior or graduate standing
Special topics in criminal justice. May be repeated for credit with consent of instructor as topics change. Formerly offered as CJUS 590A.

CJUS 5902. Topics in Criminal Justice. Units: 2

Semester Prerequisite: Junior, senior, or graduate standing. Quarter Prerequisite: junior, senior or graduate standing
Special topics in criminal justice. May be repeated for credit with consent of instructor as topics change. Formerly offered as CJUS 590B.

CJUS 5903. Topics in Criminal Justice. Units: 3

Semester Prerequisite: Junior, senior, or graduate standing
Special topics in criminal justice. May be repeated for credit with consent of instructor as topics change. Formerly offered as CJUS 590C.

CJUS 5951. Independent Study. Unit: 1

In-depth research into special topics concerned with the criminal justice system utilizing readings, library, and/or field research. Only three may be used in the major. May be taken six times for six units. Formerly offered as CJUS 595A.

CJUS 5952. Independent Study. Units: 2

In-depth research into special topics concerned with the criminal justice system utilizing readings, library, and/or field research. Only three may be used in the major. May be taken two times for six units. Formerly offered as CJUS 595B.

CJUS 5953. Independent Study. Units: 3

Semester Prerequisite: A minimum overall GPA of 3, consent of instructor and Department Chair approval. Quarter Prerequisite: a minimum overall grade point average of 3
In-depth research into special topics concerned with the criminal justice system utilizing readings, library, and/or field research. Only three may be used in the major. May be taken two times for six units. Formerly offered as CJUS 595C.

CJUS 6604. Advanced Techniques of Basic and Applied Research in Criminal Justice. Units: 3

Semester Prerequisite: CJUS 3311 or equivalent with a grade of B- or better. Quarter Prerequisite: CJUS 311 with a grade of B- or better or consent of instructor

Overview and application of the scientific method in the study of crime and criminal justice. Formerly offered as CJUS 604.

CJUS 6605. Proseminar in Criminal Justice. Units: 3

Overview of contemporary research and literature across the criminal justice field. Topics will include current writings and research on crime, police, courts, and corrections. Formerly offered as CJUS 605.

CJUS 6606. Statistical Analysis in Criminal Justice. Units: 3

Semester Prerequisite: CJUS 3312 or equivalent with a grade of B- or better. Quarter Prerequisite: CJUS 312 with a grade of B- or better or consent of instructor

Quantitative analytical techniques for criminal justice data. Emphasis will be placed on using and interpreting nonparametric and multivariate statistics. Formerly offered as CJUS 606.

CJUS 6607. Applying Criminological Theory to Criminal Justice. Units: 3

Analysis of social, behavioral, and biochemical theories of crime, delinquency and victimization as they apply to criminal justice policy decisions. Examination of pertinent theoretical research and critique of theory formation. Formerly offered as CJUS 607.

CJUS 6608. Crime, Criminals and Victims. Units: 3

Relationships between general crime trends and emerging patterns of criminal activity, and the composition of the offender and victim populations. Formerly offered as CJUS 608.

CJUS 6629. Race, Class, & Gender in the Criminal Justice System. Units: 3

Roles and treatment of minority populations within the criminal justice system, including historical background, offender issues, current problems, needs and future directions. Formerly offered as CJUS 629.

CJUS 6630. Legal Issues in Criminal Justice. Units: 3

Analysis of public policy relating to criminal justice and individual liberties along with an examination of case law in the areas of general civil liability, constitutional rights, and administrative and management practices. Formerly offered as CJUS 630.

CJUS 6631. Seminar in Corrections. Units: 3

Exploration of topics in correctional administration including: public opinion, civil rights, court intervention, system reform, and the management of correctional personnel. Formerly offered as CJUS 631.

CJUS 6632. Seminar in Policing. Units: 3

Exploration of policing topics with an emphasis on evidence-based policing research which evaluates the effectiveness of police practices in reducing crime, disorder, and maintaining citizen satisfaction. Formerly offered as CJUS 632.

CJUS 6640. Justice Policy and Administration. Units: 3

Legal, philosophical, political, and management influences that shape criminal justice policy. Focus on organization management principles and leadership and human resource development as they apply to the justice system. Formerly offered as CJUS 640.

CJUS 6641. Planning and Evaluation in Criminal Justice. Units: 3

Semester Prerequisite: CJUS 6604 and CJUS 6606. Quarter Prerequisite: CJUS 604 and CJUS 606

Focus on program planning and evaluation, as conducted by executives, managers, and planning oversight agencies. Course examines case studies and traditional evaluation designs including evaluating/assessing policies and programs, sampling techniques, and overviews of data collection techniques and statistical analysis. Formerly offered as CJUS 641.

CJUS 6651. Directed Area Studies in Criminal Justice. Unit: 1

Advanced study in a specific area selected by the student with the approval of the supervising faculty. May be taken six times for six units. Formerly offered as CJUS 650A.

CJUS 6652. Directed Area Studies in Criminal Justice. Units: 2

Advanced study in a specific area selected by the student with the approval of supervising faculty. May be taken three times for six units. Formerly offered as CJUS 650B.

CJUS 6653. Directed Area Studies in Criminal Justice. Units: 3

Semester Prerequisite: Consent of the instructor. Quarter Prerequisite: consent of instructor

Advanced study in a specific area selected by the student with the approval of the supervising faculty. May be taken two times for six units. Formerly offered as CJUS 650C.

CJUS 6686. Graduate Review in Criminal Justice. Unit: 1

Semester Prerequisite: Consent of the Graduate Coordinator. Quarter Prerequisite: advancement to candidacy

Assessment of graduate student knowledge and understanding of criminal justice theory and practice. Required of all graduate students in the Criminal Justice Master's Program. Department consent required. Graded credit/no credit. Formerly offered as CJUS 686.

CJUS 6971. Thesis I. Units: 3

Semester Prerequisite: Department Consent. Quarter Prerequisite: advancement to candidacy

Preparation of the thesis for the Master of Arts in Criminal Justice under the direction of a faculty member from the student's committee. CJUS 6972 must be completed before credit will be awarded for 6971. Department consent required. Graded credit/no credit. Formerly offered as CJUS 699A.

CJUS 6972. Thesis II. Units: 3

Preparation of the thesis for the Master of Arts in Criminal Justice under the direction of a faculty member from the student's committee. CJUS 6972 must be completed before credit will be awarded for 6971. Department consent required. Graded credit/no credit. Formerly offered as CJUS 699B.

CJUS 6980. Comprehensive Examination. Units: 0

An assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking, and demonstrate mastery of the subject matter. Department consent required. Graded Credit/no credit. Formerly offered as CJUS 999.

CJUS 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CJUS 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CJUS 6992. Continuous Enrollment for Graduate Candidacy Standing. Units: 2

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CJUS 6993. Continuous Enrollment for Graduate Candidacy Standing. Units: 3

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CJUS 6994. Continuous Enrollment for Graduate Candidacy Standing. Units: 4

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CJUS 6995. Continuous Enrollment for Graduate Candidacy Standing. Units: 5

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CJUS 6996. Continuous Enrollment for Graduate Candidacy Standing. Units: 6

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

Communication Studies (COMM)

Courses

COMM 1000. Critical Media Literacies: News, Entertainment, and Participatory Culture. Units: 3

Critical Media Literacies (CML) are crucial understandings, judgments, and skills for navigating our increasingly mediated social worlds. The course explores the consumption and creation of news, entertainment, and participatory culture, and their application to academic, professional, civic, and community life. Students also consider how different disciplines study media and media use in the context of a foundation seminar. Satisfies GE D3/4.

COMM 1006. Oral Communication. Units: 3

Introduction to effective speech communication with emphasis on informative and persuasive public speaking and presentation skills. Satisfies GE A1/1C.

COMM 1007. Critical Thinking Through Argumentation. Units: 3

Principles of oral argumentation and forensics: evidence, methods of logical analysis, reasoned discourse demonstrated through argumentative speeches and debates. Satisfies GE A3/1B.

COMM 1020. Looking at Movies. Units: 3

Students will use a formalist analytical framework to study film clips and entire movies to understand how the filmmakers use cinematic formal subsystems such as narrative structure, editing, and cinematography to create meaning. Emphasis is on films with diverse protagonists not typically found in mainstream Hollywood movies. Satisfies GE C1/3A, DI designation, World Cultures and Diversity pathway.

COMM 2101. Introduction to Communication Studies. Units: 3

An overview of how people communicate in various social contexts, and how those processes have been theorized and studied. Students also learn about the nature of work in communication careers, as well as pathways for pursuing those careers. Formerly COMM 200.

COMM 2105. Foundations for Leadership Communication. Units: 3

An introduction to the theoretical and applied dimensions of leadership. Emphasis is placed on examining leadership theories, exploring the relationship between leadership and ethics, dynamics of power, influence, and group development. The course is designed to provide a foundation for advanced study in leadership and related disciplines.

COMM 2201. Intercultural Communication. Units: 3

Description and analysis of cultural and gender factors in communication such as perception, value systems, language codes, and nonverbal communication. Overcoming the communication problems that can result when members of different cultures communicate. Satisfies DI designation.

COMM 2231. Small Group Communication. Units: 3

Theories of communication applied to small group situations emphasizing decision-making processes. Formerly offered as COMM 221.

COMM 2251. Fundamentals of Interpersonal Communication. Units: 3

Demonstration and practice of communicative techniques for establishing and cultivating interpersonal relationships including: building and maintaining communications climates, listening, perception, self-discolure, and verbal and non-verbal communication. Formerly COMM 225.

COMM 2291. Practicum in Relational and Organizational Communication. Units: 2

An applied introduction to relational and organizational communication in a particular area of communication practice. May be taken for up to 4 units as topics change. No more than 6 Experiential Learning units may be applied toward the BA in Communication; however, students may apply additional Experiential Learning units toward general graduation requirements. Graded credit/no credit. Formerly COMM 243E.

COMM 2292. Practicum in Mentoring. Units: 2

An applied introduction to mentoring. May be taken for up to 4 units of credit. No more than 6 Experiential Learning units may be applied toward the BA in Communication; however, students may apply additional Experiential Learning units toward general graduation requirements. Graded credit/no credit. Consent of instructor required to register. Formerly COMM 444D.

COMM 2293. Practicum in Intercollegiate Forensics: Coyote Debate. Units: 2

An applied introduction to debate strategy and skills for intercollegiate forensics competition. Students prepare for and compete in individual and team debate events as part of CSUSB's Coyote Debate Team. Additional hours of supervised practice and performance required. May be taken for up to 4 units of credit. No more than 6 Experiential Learning units may be applied toward the BA in Communication; however, students may apply additional Experiential Learning units toward general graduation requirements. Graded credit/no credit. Formerly COMM 382.

COMM 2301. Newswriting and Reporting. Units: 3

An introduction to basic news writing and reporting practices. Students gain experience gathering information through journalistic research and interviewing, and they write stories following the inverted pyramid structure and Associated Press style. Students also get acquainted with investigative reporting, journalistic visual production, and multimedia storytelling elements. Satisfies WI designation.

COMM 2351. Television Studio Production. Units: 4

Introduction to television studio production and multicamera control-room directing. Introduces applied media aesthetics and the roles of above-the-line and below-the-line personnel. Three hours lecture and two hours activity laboratory per week. Materials fee required. Formerly COMM 245.

COMM 2391. Practicum in Multimedia Journalism: Coyote Chronicle. Units: 2

An applied introduction to news writing, reporting, editing, and production resulting in regular publication of the Coyote Chronicle (CSUSB's student newspaper) and its associated multimedia platforms. May be taken for up to 4 units of credit. No more than 6 Experiential Learning units may be applied toward the BA in Communication; however, students may apply additional Experiential Learning units toward general graduation requirements. Graded credit/no credit. Formerly COMM 243A.

COMM 2392. Practicum in Digital Audio and Radio. Units: 2

An applied introduction to digital audio and radio at one of CSUSB's student radio stations: Coyote Radio or PAWS Radio. Students gain hands-on experience in audio production, on-air performance, promotions, social media, and station management. May be taken for up to 4 units of credit. No more than 6 Experiential Learning units may be applied toward the BA in Communication; however, students may apply additional Experiential Learning units toward general graduation requirements. May be taken two times for four units. Graded credit/no credit. Formerly 243B.

COMM 2393. Practicum in Television Journalism Production: Local Matters. Units: 2

Quarter Prerequisite: COMM 243A

An applied introduction to television journalism production. Working under real-world deadlines and airdates, students create, write, produce, shoot, and edit the news-format style television show, Local Matters, which is broadcast on local cable systems. May be taken for up to 4 units of credit. No more than 6 Experiential Learning units may be applied toward the BA in Communication; however, students may apply additional Experiential Learning units toward general graduation requirements. Graded credit/no credit. Formerly 243C.

COMM 2451. Communicating Disability Studies. Units: 3

This course provides an introduction to Disability Studies using the social model of disability in the context of communication, media and representation. Topics include communication of the knowledge, contributions, experiences, histories, and cultures of disabled people.

COMM 2491. Practicum in Strategic Communication: Coyote PR. Units: 2

An applied introduction to strategic communication and public relations. Students serve as Public Relations Assistants for Coyote PR, CSUSB's student-run public relations firm. May be taken for up to 4 units of credit. No more than 6 Experiential Learning units may be applied toward the BA in Communication; however, students may apply additional Experiential Learning units toward general graduation requirements. Graded credit/no credit. Formerly COMM 243D.

COMM 2492. Practicum in Advertising: Coyote Advertising. Units: 2

An applied introduction to advertising and marketing campaigns. As Coyote Advertising team members, students are presented with a real-world advertising challenge facing a company or organization, and they develop and present integrated marketing proposals. May be taken for up to 4 units of credit. No more than six Experiential Learning units may be applied toward the BA in Communication; however, students may apply additional Experiential Learning units toward general graduation requirements. Graded credit/no credit.

COMM 2592. Practicum in Communication Research. Units: 2

Introduction to applied communication research methods. May be taken for up to 4 units of credit. No more than 6 Experiential Learning units may be applied toward the BA in Communication; however, students may apply additional Experiential Learning units toward general graduation requirements. Graded credit/no credit. Consent of instructor required to register.

COMM 2593. Service Learning in Communication. Units: 2

Application of communication understandings and skills in meaningful and planned service experiences in the community. Through reflective activities, students enhance their understanding of communication and other general knowledge, as well as their sense of civic responsibility, self-awareness, and commitment to the community. May be taken for up to 4 units. No more than 6 Experiential Learning units may be applied toward the BA in Communication; however, students may apply additional Experiential Learning units toward general graduation requirements. Graded credit/no credit. Consent of instructor required to register.

COMM 3101. Communication, Self, and Others. Units: 3

Semester Prerequisite: COMM 2101, which may be taken concurrently with COMM 3101

This course explores the role of communication in the construction of self, interpersonal and intercultural relations, and groups & organizations. Key theories are considered and applied to practical communication processes. Theory development is also examined.

COMM 3102. Media, Culture, and Society. Units: 3

Semester Prerequisite: COMM 2101, which may be taken concurrently with COMM 3102. Quarter Prerequisite: completion of COMM 320 or consent of instructor

This course explores the role of media and other mass communication in political, economic, and socio-cultural life. Key theories are considered and applied to practical communication processes. The evolution of media scholarship -- from mass society to convergence culture -- is also examined. Formerly COMM 321.

COMM 3211. Business and Professional Communication. Units: 3

Quarter Prerequisite: COMM 120 or equivalent
Presentation skills and techniques used in sales, business, professional and technical fields for the communication of information. Special emphasis on technological resources for corporate communication. Formerly COMM 311.

COMM 3212. Persuasion. Units: 3

Study and application of rhetorical, social-psychological, and mass behavioral theories of persuasion from the the perspectives of the message consumer and producer. Formerly COMM 312.

COMM 3227. Topics in Relational and Organizational Communication. Units: 3

Special topics in relational and organizational communication. May be repeated for credit as topics change. Formerly COMM 364.

COMM 3230. Nonverbal Communication. Units: 3

Theoretical and applied study of nonverbal communication in the shaping of human communication interactions. Emphasis on the major functions, purposes, and uses of nonverbal communication in a socio-culturally diverse society. Formerly COMM 330.

COMM 3231. Communication for Training Programs. Units: 3

Techniques and functions of training programs in professional and technical settings. Formerly COMM 331.

COMM 3236. Health Communication. Units: 3

Overview and examination of the theories and concepts of health communication. Primary focus on identifying the various approaches for translating research on health behaviors and perceptions, maintaining health, and coping with illness in a variety of health contexts. Specifically, the sociohistorical, social, political, and cultural factors affecting health communication and healthcare. Satisfies GE D4/UD-4.

COMM 3301. Media Institutions in Context. Units: 3

A historical examination of how media institutions have shaped and been shaped by broader political, economic, socio-cultural, and technological processes. Particular attention paid to the role of media in a democracy, the development of commercial journalism and entertainment industries, the policies created to regulate those industries, and their impacts on media production, texts, and uses -- both past and present.

COMM 3305. Digital Media and Society. Units: 3

Theory, research, and history concerning the role of digital media in socio-cultural, political, and economic life. Students consider key issues around digital media use, such as identity construction, democratic participation, online privacy, industry disruptions, community formation, and digital distractions. Satisfies GE D4/UD-4, Digital Life pathway.

COMM 3319. Topics in Media Studies. Units: 3

Special topics in media studies. May be repeated for credit as topics change. Formerly COMM 365.

COMM 3331. The Development of Motion Pictures. Units: 3

Survey of the historical background, commercial development, and social influences of motion pictures. Course follows the medium from its earliest origins through the rise and decline of the studio system to the influences of television. Emphasis on key directors and styles of film communication. Formerly COMM 381.

COMM 3332. Movies in the Digital Age. Units: 3

In this course, students will explore and analyze aesthetic experiences related to the impact of digital technologies and cultures on the art of motion pictures, including those of the computer-generated imagery (CGI) revolution and the portrayal of digital culture in movies and TV. Satisfies GE C4/UD-3, Digital Life pathway.

COMM 3333. Film Analysis. Units: 3

Analysis of films using various theoretical frames. Emphasis on understanding and interpreting filmmakers' uses of form and style in picture and sound, including within-frame composition, editing, and sound design. Formerly COMM 424.

COMM 3334. Global Cinema. Units: 3

The course will survey contemporary world cinema while situating it within the larger history and theories of film. The course will help students to think critically about the role cinema plays in society through its ability to illustrate and create empathy for an international range of human experiences; as a result, the course will allow students to develop an understanding between the self and the creative arts in a variety of world cultures. Satisfies GE C4/UD-3, DI, G designations, Global Connections, World Cultures and Diversity pathways.

COMM 3335. Visual Communication. Units: 3

Introduction to the principles and theory of visual literacy for understanding the social, cultural, and ethical layers of meaning in visual communication. Emphasis on the method of applied media aesthetics. Formerly COMM 380.

COMM 3336. Queer Cinema. Units: 3

This course explores the representation of LGBT and other queer identities in U.S. and world cinema, and how those representations have evolved with and shaped discourse about queer people over the history of the film medium. Satisfies GE C4/UD-3, DI designation.

COMM 3339. Topics in Film Studies. Units: 3

Special topics in film studies. May be repeated for credit as topics change.

COMM 3351. Introduction to Digital Video Editing. Units: 3

Theory and practice of digital video editing. Developing the narrative language of live action material, whether fictional, documentary, or musical; composing effective visual/sound design; and establishing pace and rhythm in editing. Training in software applications for moving image editing, program titling, and visual effects. Materials fee required. Formerly COMM 335.

COMM 3353. Digital Video Field Production. Units: 4

Semester Prerequisite: COMM 2351. Quarter Prerequisite: COMM 245 with a grade of B or better
Introduction to portable video equipment and the single-camera/video field production process. Three hours seminar and two hours laboratory. Materials fee required. Formerly COMM 345.

COMM 3354. Fundamentals of Screenwriting. Units: 3

Writing for fictional motion pictures, including structure, characters, dialogue, scene development, conflict and theme. Attention will be given to narrative structure and storytelling for film. Formerly COMM 347.

COMM 3359. Topics in Digital Production. Units: 3

Special topics in digital production. May be taken again for credit as topics change.

COMM 3361. Digital Audio and Radio Production. Units: 3

Quarter Prerequisite: COMM 243B or consent of instructor
Techniques and principles of digital audio recording, editing, and mixing for radio programming such as newscasts, commercials, public service announcements, and promotional announcements. Two hours seminar and two hours laboratory per week. Materials fee required. Formerly COMM 387.

COMM 3371. Multimedia Journalism. Units: 3

Theory and practice in multimedia journalism, including videography, photography, audio, written and social media journalism. Students create and edit interactive multimedia packages. Preparation for careers in journalism, public relations, and related fields. Materials fee required.

COMM 3372. Publication Design. Units: 3

Quarter Prerequisite: COMM 240
Application of design principles through the design of print, web, and digital publications. Includes concept development, planning and composition, typography, infographics, mastheads, illustrations, coding, user experience, and desktop publishing. Ethical considerations discussed. Formerly COMM 342.

COMM 3379. Topics in Multimedia Journalism. Units: 3

Special topics in multimedia journalism. May be taken again for credit as topics change.

COMM 3401. Introduction to Strategic Communication. Units: 3

Introduction to theoretical perspectives and professional principles in strategic communication. Historical perspectives, current and future trends, and career opportunities explored. Formerly COMM 341.

COMM 3402. Writing for Public Relations. Units: 3

Quarter Prerequisite: COMM 240 or consent of instructor
Semester Corequisite: COMM 2301
Application of public relations theory and principles through the development of public relations writing. Formerly COMM 344.

COMM 3403. Business Literacy for Strategic Communication. Units: 3

Provides foundational business knowledge important to strategic communication professionals, including key intersections between business objectives and strategic communication such as corporate governance, social responsibility, and reputation.

COMM 3419. Topics in Strategic Communication. Units: 3

Special topics in strategic communication. May be repeated for credit as topics change. Formerly COMM 367.

COMM 4101. Communication Research Methodology. Units: 3

Study and application of basic historical, descriptive, critical, and experimental research skills unique to communication. Includes data analysis, interpretation, and ethical considerations of communication research. Satisfies WI designation.

COMM 4102. Ethical Aspects of Communication. Units: 3

Semester Prerequisite: COMM 3101 or COMM 3102 or COMM 2105
Focuses on exploring and assessing issues of responsibility and ethical standards of communication in areas such as interpersonal, political, print, TV/film, organizational, and digital communication contexts. Goals of the course include stimulation of the moral imagination; recognition of ethical issues; and development of critical/analytical skills.

COMM 4107. Leadership Communication Capstone. Units: 3

Semester Prerequisite: COMM2105 and Senior Standing
This capstone course brings together prior learning in a culminating experience that bridges theory and practice. Through advanced analysis, reflection, and experiential learning, students synthesize leadership theories, ethical frameworks, and organizational contexts to address complex challenges.

COMM 4202. Relational Communication. Units: 3

An overview and examination of current concepts, issues, and research in the study of human relationships. Primary focus on relational development, maintenance, and disengagement in a variety of contexts. Formerly COMM 403.

COMM 4203. Organizational Communication. Units: 3

Study of current organizational communication theory and application to the management of communication within the organization.

COMM 4211. Communication and Gender. Units: 3

A critical and sociological examination of how gender is socialized, constructed, communicated, and performed in various communicative contexts. Satisfies DI designation.

COMM 4222. Communication and Conflict. Units: 3

Communication theories and models relevant to analyzing and understanding the causes, functions, styles, and effects of conflict. The skills of negotiation and third party intervention in conflict resolution. Formerly COMM 422.

COMM 4231. Classroom Communication. Units: 3

Quarter Prerequisite: COMM 120 or equivalent
Communication skills in instructional settings, including strategies to facilitate understanding and analysis of classroom behavioral models. Formerly COMM 431.

COMM 4241. Interviewing. Units: 3

Quarter Prerequisite: COMM 120 or equivalent
Interviewing in formal and informal settings. Understanding of employment, journalistic, informative and persuasive interviews. Formerly COMM 441.

COMM 4291. Advanced Practicum in Relational and Organizational Communication. Units: 2

Semester Prerequisite: COMM 2291
Advanced application of relational and organizational communication skills in particular areas of communication practice. May repeated for credit 2 times for a total of 4 units. No more than 6 Experiential Learning units may be applied toward the BA in Communication; however, students may apply additional Experiential Learning units toward general graduation requirements. Graded credit/no credit. Consent of instructor required to register.

COMM 4292. Advanced Practicum in Mentoring. Units: 2

Semester Prerequisite: COMM 2292
Advanced applied mentoring. No more than 6 Experiential Learning units may be applied toward the BA in Communication; however, students may apply additional Experiential Learning units toward general graduation requirements. May be taken two times for four units. Graded credit/no credit.

COMM 4293. Advanced Practicum in Intercollegiate Forensics: Coyote Debate. Units: 2

Semester Prerequisite: COMM 2293
Advanced application of debate strategy and skills for intercollegiate forensics competition. Students prepare for and compete in individual and team debate events as part of CSUSB's Coyote Debate Team. Additional hours of supervised practice and performance required. May be repeated for credit 2 times for a total of 4 units. No more than 6 Experiential Learning units may be applied toward the BA in Communication; however, students may apply additional Experiential Learning units toward general graduation requirements. Graded credit/no credit. Consent of instructor required to register.

COMM 4301. Gender, Race, and Class in Media. Units: 3

Engages students with contemporary critical scholarship on the construction of gender, race, and class in the media, particularly popular media. The course focuses primarily on film, television, advertising, and journalism. Satisfies DI designation.

COMM 4302. Latinx, Media, and Cultures. Units: 3

Examines mass media representations of and by Latinx in both Latin America and the United States as they relate to historical and contemporary colonialism, and how they enable or resist homogeneous perceptions of culture and society. Effects on ideology, nation, law, and policy are analyzed. Satisfies DI designation.

COMM 4303. Global Communication. Units: 3

Political, economic, and cultural analysis of the structure, context, and impact of communication across national boundaries, including news, entertainment, advertising, corporate communication, transborder data flows, and the Internet. Satisfies G designation.

COMM 4304. Media Effects. Units: 3

History of research in understanding the effects of the media on individuals and society. Students develop critical and informed views on media effects in such areas as politics, group perception, prosocial/antisocial practices, health, sports, music, religion, leisure, and commerce. Formerly COMM 405.

COMM 4305. Advertising as Social Communication. Units: 3

A critical-historical examination of the role of advertising and promotional culture in political, economic, and socio-cultural life. Particular attention paid to the development of corporate advertising, its relationship to and influence on commercial media, and advertising's representations of race, class, gender, and sexuality. Formerly COMM 415.

COMM 4355. Digital Filmmaking I. Units: 3

Semester Prerequisite: COMM 2351 and COMM 3353
Digital video production course with emphasis on pre-production planning, shooting, and editing through lectures, workshops, screenings, and field production. Working in crews, students plan, shoot, and finish short video projects. Formerly COMM 448.

COMM 4356. Digital Filmmaking II. Units: 3

Semester Prerequisite: COMM 2351, COMM 3353, and COMM 4355
Advanced digital video production course with emphasis on producing, directing, videography, lighting, and sound recording through lectures, workshops, screenings, and field production. Working in crews, students plan, shoot, and edit video projects. Formerly COMM 449.

COMM 4378. Media and Journalism Ethics. Units: 3

Examines ethical issues and questions of responsibility in media and journalism across diverse contexts and practices.

COMM 4391. Advanced Practicum in Multimedia Journalism: Coyote Chronicle. Units: 2

Semester Prerequisite: COMM 2391
Advanced application of news writing, reporting, editing, and production skills resulting in regular publication of the Coyote Chronicle (CSUSB's student newspaper) and its associated multimedia platforms. May be repeated for credit 2 times for a total of 4 units. No more than 6 Experiential Learning units may be applied toward the BA in Communication; however, students may apply additional Experiential Learning units toward general graduation requirements. Graded credit/no credit. Consent of instructor required to register.

COMM 4392. Advanced Practicum in Digital Audio and Radio: Coyote Radio. Units: 2

Semester Prerequisite: COMM 2392
Advanced application of digital audio and radio skills. At Coyote Radio (CSUSB's student radio station), students gain hands-on experience in audio production, on-air performance, promotions, social media, and station management. May be repeated 2 times for a total of 4 units. No more than 6 Experiential Learning units may be applied toward the BA in Communication; however, students may apply additional Experiential Learning units toward general graduation requirements. Graded credit/no credit. Consent of instructor required to register.

COMM 4393. Advanced Practicum in Television Journalism Production: Local Matters. Units: 2

Semester Prerequisite: COMM 2393
Advanced application of television journalism production skills. Working under real-world deadlines and airdates, students create, write, produce, shoot, and edit the news-format style television show, Local Matters, which is broadcast on local cable systems. May be repeated for credit 2 times for a total of 4 units. No more than 6 Experiential Learning may be applied toward the BA in Communication; however, students may apply additional Experiential Learning units toward general graduation requirements. Graded credit/no credit. Materials fee required. Consent of instructor required to register. Formerly 444A.

COMM 4401. Strategic Communication Campaigns. Units: 3

Semester Prerequisite: COMM 2301, COMM 3401, COMM 3402. Quarter Prerequisite: COMM 344
Advanced study of strategic communication campaigns to achieve commercial, political, and social goals. Emphasis on case analysis, campaign development, and implementation. Formerly COMM 442.

COMM 4491. Advanced Practicum in Strategic Communication: Coyote PR. Units: 2

Semester Prerequisite: COMM 2491
Advanced application of strategic communication and public relations skills. Students serve as Public Relations Assistants for Coyote PR, CSUSB's student-run public relations firm. May be repeated for credit 2 times for a total of 4 units. No more than 6 Experiential Learning units may be applied toward the BA in Communication; however, students may apply additional Experiential Learning units toward general graduation requirements. Consent of instructor required to register. Graded credit/no credit.

COMM 4492. Advanced Practicum in Advertising: National Student Advertising Competition team. Units: 2

Semester Prerequisite: COMM 2492
Advanced application of strategy and skills in advertising and marketing campaigns. Students compete as members of CSUSB's National Student Advertising Competition (NSAC) team. They are presented with a real-world advertising challenge facing a national brand, and they work as a team to develop an integrated marketing proposal for the client and competitively present that plan to a panel of judges. May be repeated for credit 2 times for a total of 4 units. No more than 6 Experiential Learning units may be applied toward the BA in Communication; however, students may apply additional Experiential Learning units toward General Graduation Requirements. Graded credit/no credit. Consent of instructor required to register.

COMM 4535. Organizational Listening. Units: 3

Organizational listening is a vital leadership skill that shapes how groups build trust, foster engagement, and spark innovation. This course introduces theories and practices of listening in complex organizational settings, with attention to how leaders and institutions gather, interpret, and act on stakeholder voices.

COMM 4543. Environmental Communication. Units: 3

Examination of communication involving environmental issues in national and international contexts. Emphasis is placed on the relationship between communication and environmental problems and issues.

COMM 4592. Advanced Practicum in Communication Research. Units: 2

Semester Prerequisite: COMM 2592 and consent of instructor
Advanced applied communication research methods. May be repeated for credit 2 times for a total of 4 units. No more than 6 Experiential Learning units may be applied toward the BA in Communication; however, students may apply additional Experiential Learning units toward general graduation requirements. Graded credit/no credit. Consent of instructor required to register. Formerly COMM 444B.

COMM 5222. Mediation Theory and Practice. Units: 3

Semester Prerequisite: COMM 4222 or permission of instructor. Quarter Prerequisite: COMM 422 or permission of instructor
Exploration of the theories, methods, and techniques of mediation as a collaborative process of resolving conflicts among individuals, groups, organizations, and nations. Through simulation exercises and role plays, students develop neutral third party intervention skills needed to serve as a mediator. Formerly COMM 522.

COMM 5267. Advanced Topics in Relational and Organizational Communication. Units: 3

Quarter Prerequisite: junior, senior, or graduate standing
Advanced special topics in relational and organizational communication. May be repeated for credit as topics change. Formerly COMM 564.

COMM 5280. Culture and Ethnicity in Language. Units: 3

Semester Prerequisite: COMM 2201 or equivalent
Critical examination of the way language shapes perceptions, behaviors, and attitudes about culture and ethnicity. Formerly COMM 580.

COMM 5301. Media Sex and Violence. Units: 3

Critical and empirical examination of the practices and consequences of portraying human aggression and sexuality in the media including television, movies, music recordings, print materials, video games, and the Internet. Formerly COMM 506.

COMM 5302. Communication Law and Policy. Units: 3

An overview of the laws, rules, and policies that govern various media sectors, with a particular emphasis on how these regulations shape the practice of media professionals. Topics include: freedom of speech; libel; intellectual property; broadcast regulations; digital media law and policy; privacy. Formerly COMM 502.

COMM 5303. Muslim Women in Media and Society. Units: 3

A cross-disciplinary and case study-based approach to the subject of Muslim women across several different regions and contexts, focusing particularly on their position in society and their representation in media. Formerly COMM 550.

COMM 5311. Fundamentals of Social Media Management. Units: 3

Explores how organizations use social media to shape conversations about their products, services, actions, and positions. Examines issues of social media planning, campaign management and strategic communication on social media. Formerly COMM 507.

COMM 5312. Political Economy of Social Media Communication. Units: 3

Explores how ownership, market strategy and financing considerations on social media platforms intersect with policy and legal issues. Formerly COMM 508.

COMM 5313. Audience Analysis in Social Media. Units: 3

An overview of current tools for quantitative and qualitative audience analysis in social media. Explores how the strategic priorities of organizations and their social media strategies relate to campaign performance. Formerly COMM 509.

COMM 5314. Social Media for Social Good. Units: 3

Students learn theories, methods, and strategies for using social media to grow personal capabilities and civic involvement and to enact change for the social good. Explores issues of ethics and social justice in social media communication. Formerly COMM 510.

COMM 5319. Advanced Topics in Media Studies. Units: 3

Quarter Prerequisite: junior, senior, or graduate standing
Advanced special topics in media studies. May be repeated for credit as topics change. Formerly COMM 565.

COMM 5339. Advanced Topics in Film Studies. Units: 3

Special advanced topics in film studies. May be taken again for credit as topics change.

COMM 5359. Advanced Topics in Digital Production. Units: 3

Semester Prerequisite: COMM 3359
Advanced special topics in digital production. May be repeated for credit as topics change.

COMM 5376. Data Journalism. Units: 3

Students learn to use data to find and tell stories, with emphasis on analysis, visualization, and clear communication. Preparation for careers in journalism, public relations, and related fields.

COMM 5377. AI in Journalism and Media. Units: 3

Students explore how artificial intelligence is shaping journalism, from reporting and storytelling to ethics and public understanding. Preparation for careers in journalism, public relations, and related fields.

COMM 5378. Community & Investigative Journalism. Units: 3

A hands-on course merging traditional civic and investigative reporting with multimedia and community journalism elements. Students gain transferable multimedia and journalism skills by collaboratively gathering and crafting impactful stories with and about local communities. May be taken twice for six units; only three units may count toward the BA in Communication. However, students may apply additional units toward general graduation requirements.

COMM 5379. Advanced Topics in Multimedia Journalism. Units: 3

Advanced special topics in multimedia journalism. May be taken again for credit as topics change.

COMM 5391. Advanced Practicum in Journalism. Units: 2

Intensely hands-on utilization of news-gathering, reporting, and editing competencies, leading to consistent creation of journalistic content. May be taken 2 times for a total of 4 units. No more than 6 Experiential Learning units may be applied toward the BA in Communication; however, students may apply additional Experiential Learning units toward general graduation requirements. Graded credit/no credit.

COMM 5401. Crisis Communication. Units: 3

Semester Prerequisite: COMM 2301, COMM 3401, COMM 3402. Quarter Prerequisite: COMM 344 or equivalent or consent of instructor
Principles and methods of issue evaluation and crisis management in strategic communication, including issue monitoring and analysis, policy options, and program design and evaluation. Formerly COMM 542.

COMM 5419. Advanced Topics in Strategic Communication. Units: 3

Advanced special topics in strategic communication. May be repeated for credit as topics change. Formerly COMM 567.

COMM 5532. Political Communication. Units: 3

Study of role and impact of communication in political campaigns including historical and contemporary study of influence by communication.

COMM 5536. The Dark Side of Communication. Units: 3

Explores the "dark side" of interpersonal communication, where behaviors typically seen as competent or ethical may become harmful, and those viewed as destructive or immoral may sometimes yield productive outcomes. Students develop a critical lens for evaluating the complexities of human interaction.

COMM 5537. Dangerous Liaisons. Units: 3

Examines the communicative dynamics of risky and morally ambiguous relationships in both interpersonal and organizational contexts, where power, persuasion, and desire create connections that can be as destructive as they are compelling.

COMM 5542. Policy Communication: Contexts, Processes, & Consequences. Units: 3

Examines the theory and practice of policy communication across diverse publics and institutions, with emphasis on how ideas are framed, debated, and disseminated. Students explore the role of narrative, framing, advocacy, and ethics in negotiating multiple perspectives, cultural contexts, and stakeholder interests that shape policy discourse.

COMM 5792. Internship in Communication. Units: 2

Semester Prerequisite: Junior or senior status with a minimum of 12 units of Communication course work completed at CSUSB; minimum overall grade point average of C+; departmental approval of a written contract between the student intern and the intern's site supervisor at the host organization required; contract to be filed the term prior to that in which the internship is to take place

Practical application and development of communication understandings and skills in a professional setting and under the supervision of a communication professional. Through reflection exercises, students draw connections between their internship and their Communication course work, and they crystallize their career plans. Minimum 80 hours of internship experience with the host organization required over the course of the term. Internship in Communication (COMM 5792, 5793, or 5794) may be taken again for credit; however, no more than 6 Experiential Learning units may be applied toward the BA in Communication. Students may apply additional Experiential Learning units toward general graduation requirements. Graded credit/no credit. Departmental approval of a written contract between the student intern and the site supervisor at the host organization required; contract to be filed the term prior to that in which the internship is to take place. Formerly COMM 591B.

COMM 5793. Internship in Communication. Units: 3

Semester Prerequisite: Junior or senior status with 12 units of Communication course work completed on this campus; minimum overall grade point average of C+; departmental approval of a written contract between the student intern and the site supervisor at the host organization required; contract to be filed the term prior to that in which the internship is to take place

Practical application and development of communication understandings and skills in a professional setting and under the supervision of a communication professional. Through reflection exercises, students draw connections between their internship and their Communication course work, and they crystallize their career plans. Minimum 120 hours of internship experience with the host organization required over the course of the term. Internship in Communication (COMM 5792, 5793, or 5794) may be taken again for credit; however, no more than 6 Experiential Learning units may be applied toward the BA in Communication. Students may apply additional Experiential Learning units toward general graduation requirements. Graded credit/no credit. Departmental approval of a written contract between the student intern and the site supervisor at the host organization required; contract to be filed the term prior to that in which the internship is to take place. Formerly COMM 591C.

COMM 5794. Internship in Communication. Units: 4

Semester Prerequisite: Junior or senior status with 12 units of Communication course work completed on this campus; minimum overall grade point average of C+; departmental approval of a written contract between the student intern and the site supervisor at the host organization required; contract to be filed the term prior to that in which the internship is to take place

Practical application and development of communication understandings and skills in a professional setting and under the supervision of a communication professional. Through reflection exercises, students draw connections between their internship and their Communication course work, and they crystallize their career plans. Minimum 160 hours of internship experience with the host organization required over the course of the term. Internship in Communication (COMM 5792, 5793 or 5794) may be taken again for credit; however, no more than 6 Experiential Learning units may be applied toward the BA in Communication. Students may apply additional Experiential Learning units toward general graduation requirements. Graded credit/no credit. Departmental approval of a written contract between the student intern and the site supervisor at the host organization required; contract to be filed the term prior to that in which the internship is to take place. Formerly COMM 591D.

COMM 5892. Communication Teaching Shadowship. Units: 2

Shadow an instructor teaching Oral Communication (or equivalent) at CSUSB or a nearby college/university as preparation for various communication teaching roles. Responsibilities include: Observing teaching and learning; Reflect on pedagogical approaches and connecting to Communication Studies theories and concepts; Deliver lectures; Developing course syllabus; Shadow grade student speeches (for learning purposes only); Meet regularly with the shadowed instructor. A minimum of 80 hours of teaching shadowship experience is required over the course of the term. May be repeated for credit by BA students. However, no more than 6 Experiential Learning units may be applied to the BA in Communication. BA students may apply additional Experiential Learning units toward general graduation requirements. May only be taken once by MA students. Graded credit/no credit. Departmental approval of a written contract between the student shadow and the site supervisor (shadowed instructor) at the host organization is required; the contract is to be filed the term prior to that in which the shadowship is to take place.

COMM 5952. Independent Study. Units: 2

Semester Prerequisite: Junior or senior standing AND a minimum overall grade point average of 3. Quarter Prerequisite: A minimum overall grade point average of 3

Special topics involving library research, experimental or field research, or media production. No more than 2 Independent Study courses (COMM 5952, 5953, or 5954) may be taken as part of the BA in Communication, and no more than 6 Independent Study units may be applied toward the BA in Communication. Department approval of Independent Study proposal, filed in advance of the semester in which the course is to be taken, is required. Formerly COMM 595B.

COMM 5953. Independent Study. Units: 3

Semester Prerequisite: Junior or senior standing AND a minimum overall grade point average of 3. Quarter Prerequisite: Junior or senior standing AND a minimum overall grade point average of 3

Special topics involving library research, experimental or field research, or media production. No more than 2 Independent Study courses (COMM 5952, 5953, or 5954) may be taken as part of the BA in Communication, and no more than 6 Independent Study units may be applied toward the BA in Communication. Department approval of Independent Study proposal, filed in advance of the term in which the course is to be taken, is required. Formerly COMM 595C.

COMM 5954. Independent Study. Units: 4

Semester Prerequisite: Junior or senior standing AND a minimum overall grade point average of 3. Quarter Prerequisite: a minimum overall grade point average of 3

Special topics involving library research, experimental or field research, or media production. No more than 2 Independent Study courses (COMM 5952, 5953, or 5954) may be taken as part of the BA in Communication, and no more than 6 Independent Study units may be applied toward the BA in Communication. Department approval of Independent Study proposal, filed in advance of the term in which the course is to be taken, is required. Formerly COMM 595D.

COMM 6000. Introduction to Graduate Study. Units: 3

An introduction to the means of success in the graduate program and communication studies, including important tools for success such as in-depth knowledge of the policies of the graduate program, library services, research software, APA style of writing, and IRB. Must be taken during the first semester of the graduate program. Two hours lecture and two hours lab activity. Enrollment in the class requires approval by the graduate coordinator. Formerly offered as COMM 600.

COMM 6001. Theoretical Perspectives in Communication Studies. Units: 3

Survey of the major paradigms and theories in communication studies. This class explores the relationships among theoretical perspectives, research questions, methods, and practice. Must be taken within the first year of graduate study (except for part-time students).

COMM 6002. Quantitative Research Methods in Communication Studies. Units: 3

Semester Prerequisite: COMM 6000, and COMM 6001; or consent of the department. Quarter Prerequisite: Prerequisites: COMM 400 and COMM 600, or consent of department

Introduction to quantitative social science research methods, including design (survey, experiment, and content analysis); key topics such as research ethics, validity, reliability, sampling, data collection, and hypothesis testing; and basic statistical analysis procedures for descriptive and inferential statistics using relevant software. Two hours lecture and two hours lab activity. Formerly offered as COMM 602.

COMM 6003. Qualitative Research Methods in Communication Studies. Units: 3

Semester Prerequisite: COMM 6000; or consent of the department

Survey of study design, data collection and appropriate procedures for research through qualitative and interpretive approaches. Advanced study in such methods includes ethnography, interviewing, discourse analysis, and rhetorical and cultural criticism. Two hours lecture and two hours lab activity. Formerly offered as COMM 603.

COMM 6009. Digital Cultures. Units: 3

Examination of the interactions among communication technology, new media, and culture with particular focus on intercultural and global communication. Formerly offered as COMM 609.

COMM 6010. Digital Methods in Communication Research. Units: 3

Overview of methodologies that use web-native objects and techniques to study communication phenomena and social change.

COMM 6011. Political Economy of Communication. Units: 3

A close examination of the structure and organization of media and communication systems (e.g., ownership, financing, and regulation). The course explores the development of those systems, their impact on media and cultural fare, and how they embody and constitute broader social power relations, particularly class and capital.

COMM 6012. Special Topics in Film/Cinema Studies. Units: 3

Intensive study of selected topics in film and cinema studies. May be taken for up to 6 units as topics change.

COMM 6013. Special Topics in Gender and Communication. Units: 3

Intensive study of selected topics in gender studies and communication. May be taken for up to 6 units as topics change.

COMM 6014. Special Topics in Applied Communication. Units: 3

Intensive study of selected topics in applied communication. May be taken for up to six units as topics change.

COMM 6030. Instructional Communication. Units: 3

An examination of the relationship between learning theories and communication studies and research. Research in instructional communication, instructional strategies, and techniques for applying these concepts in educational and training settings. Includes course development, teaching presentation, and active learning strategies. May not be taken in lieu of EDUC 6603. Formerly offered as COMM 630.

COMM 6070. Special Topics in Conflict and Conflict Resolution. Units: 3

Survey course on the origins, history, models, and theories of conflict and conflict resolution. Includes cultural issues, nonviolent social movements, and the developing field of online conflict resolution. May be taken for up to 6 units as topics change. Formerly offered as COMM 670.

COMM 6071. Global Communication. Units: 3

Advanced study of issues in international communication in the context of globalization. Examination of the political, economic and cultural impact of communication across national boundaries, including news, entertainment, advertising, corporate communication, transborder data flows, and social media or digital media. Formerly offered as COMM 671.

COMM 6075. Strategic Communication. Units: 3

Semester Prerequisite: COMM 6002 and COMM 6003; or, approval of the Graduate Coordinator. Quarter Prerequisite: COMM 602 and COMM 603; or, approval of the Graduate Coordinator

Applied research in communication. Involves conducting research within and for organizations to help them achieve their communication goals. The course takes a strategic management perspective that is goal-oriented and requires planning and research. Two hours lecture and two hours lab activity. Formerly offered as COMM 675.

COMM 6084. Comprehensive Examination Preparation. Units: 3

Semester Prerequisite: Completion of 15 units in the program, advancement to candidacy, and consent of the Graduate Coordinator. Prerequisite: Completion of 15 units in the program, advancement to candidacy, and consent of the Graduate Coordinator

Preparation for comprehensive examination using a guided curriculum personalized to the needs of the students. Formerly offered as COMM 685.

COMM 6085. Thesis or Project Proposal. Units: 3

Semester Prerequisite: Completion of 15 units in the program, advancement to candidacy, and consent of the Graduate Coordinator. Quarter Prerequisite: Completion of 15 units in the program, advancement to candidacy, and consent of the Graduate Coordinator

Preparation of the thesis or project proposal resulting in a thesis or project prospectus. Formerly offered as COMM 685.

COMM 6090. Special Topics in Organizational Communication. Units: 3

Semester Prerequisite: COMM 4203 or consent of the department. Quarter Prerequisite: COMM 421 or consent of department

Intensive study of selected topics in organizational communication. May be taken for up to 6 units as topics change. Formerly offered as COMM 690.

COMM 6091. Special Topics in Public Relations. Units: 3

Semester Prerequisite: COMM 3401 or equivalent; OR, consent of the instructor. Quarter Prerequisite: COMM 341, or equivalent, or consent of instructor

Intensive study of selected topics in public relations. May be taken for up to 6 units as topics change. Formerly offered as COMM 691.

COMM 6092. Special Topics in Interpersonal Communication. Units: 3

Intensive study of selected topics in interpersonal communication. May be taken for up to 6 units as topics change. Formerly offered as COMM 692.

COMM 6093. Special Topics in Media Studies. Units: 3

Intensive study of selected topics in media studies. May be taken for up to 6 units as topics change. Formerly offered as COMM 693.

COMM 6094. Special Topics in Intercultural Communication. Units: 3

Intensive study of selected topics in intercultural communication. A student may take up to six units as topics change.

COMM 6752. Graduate Internship in Communication. Units: 2

Semester Prerequisite: approval of student's committee; graduate level status with a minimum overall grade point average of 3

Development and application of communication competencies in a supervised, professional setting. Requirements: minimum 90 on-site hours; regular reflections on communication theory and practice; and a graduate-level final paper or project. Written contract between the student intern and the site supervisor to be filed the term prior to the internship. Department consent required. Graded credit/no credit. Up to 6 total units of Graduate Internship in Communication (COMM 6752/6753/6754) may be applied toward the MA in Communication Studies. May be taken 3 times for 6 units. Formerly offered as COMM 697 C.

COMM 6753. Graduate Internship in Communication. Units: 3

Semester Prerequisite: Prerequisites: approval of student's committee; graduate level status with a minimum overall grade point average of 3

Development and application of communication competencies in a supervised, professional setting. Requirements: minimum 135 on-site hours; regular reflections on communication theory and practice; and a graduate-level final paper or project. Written contract between the student intern and the site supervisor to be filed the term prior to the internship. Department consent required. Graded credit/no credit. Up to 6 total units of Graduate Internship in Communication (COMM 6752/ 6753/6754) may be applied toward the MA in Communication Studies. May be taken 2 times for 6 units. Formerly offered as COMM 697D.

COMM 6754. Graduate Internship in Communication. Units: 4

Semester Prerequisite: approval of student's committee; graduate level status with a minimum overall grade point average of 3

Development and application of communication competencies in a supervised, professional setting. Requirements: minimum 180 on-site hours; regular reflections on communication theory and practice; and a graduate-level final paper or project. Written contract between the student intern and the site supervisor to be filed the term prior to the internship. Department consent required. Graded credit/no credit. Up to 6 total units of Graduate Internship in Communication (COMM 6752/ 6753/6754) may be applied toward the MA in Communication Studies. Formerly offered as COMM 697E.

COMM 6951. Graduate Independent Study. Unit: 1

Semester Prerequisite: approval by the student's committee. Quarter Prerequisite: approval by the student's committee

Advanced reading/research on a specific topic relevant to the student's program of study. May be taken for up to 6 units of independent study credit. Formerly offered as COMM 695B.

COMM 6952. Graduate Independent Study. Units: 2

Semester Prerequisite: approval by the student's committee. Quarter Prerequisite: approval by the students committee

Advanced reading/research on a specific topic relevant to the student's program of study. May be taken for up to 6 units of independent study credit. Formerly offered as COMM 695C.

COMM 6953. Graduate Independent Study. Units: 3

Semester Prerequisite: approval by the student's committee. Quarter Prerequisite: approval by the students committee
Advanced reading/research on a specific topic relevant to the student's program of study. May be taken for up to 6 units of independent study credit. Formerly offered as COMM 695D.

COMM 6954. Graduate Independent Study. Units: 4

Semester Prerequisite: approval by the student's committee. Quarter Prerequisite: approval by the students committee
Advanced reading/research on a specific topic relevant to the student's program of study. May be taken for up to 6 units of independent study credit. Formerly offered as COMM 695E.

COMM 6963. Graduate Project. Units: 3

Semester Prerequisite: advancement to candidacy, approval of prospectus by the student's advisory committee, completion of all other required courses for the MA; or, consent of Graduate Coordinator
Preparation of a graduate project under the direction of a faculty member. Formerly offered as COMM 686.

COMM 6973. Thesis. Units: 3

Semester Prerequisite: Advancement to candidacy, COMM 6085 (Thesis or Project Prep), approval of the prospectus by the student's advisory committee, completion of all other required courses for the MA; or, consent of Graduate Coordinator
Independent graduate research culminating in a written thesis. Formerly offered as COMM 699.

COMM 6980. Comprehensive Examination. Units: 0

Semester Prerequisite: Advancement to candidacy, COMM 6084 (comps preparation), completion of all other required courses for the MA; or, consent of Graduate Coordinator
An assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of subject matter. Formerly COMM 999.

COMM 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

COMM 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

COMM 6992. Continuous Enrollment for Graduate Candidacy Standing. Units: 2

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

COMM 6993. Continuous Enrollment for Graduate Candidacy Standing. Units: 3

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

COMM 6994. Continuous Enrollment for Graduate Candidacy Standing. Units: 4

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

COMM 6995. Continuous Enrollment for Graduate Candidacy Standing. Units: 5

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

COMM 6996. Continuous Enrollment for Graduate Candidacy Standing. Units: 6

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

Counseling-Educational Counseling (COUN)

Courses

COUN 3101. Introduction to the Counseling & Helping Professions. Units: 3

This is an introduction to the Counseling & Social Change minor and a prerequisite for COUN 3103. Students are exposed to themes that cut across counseling and helping professions, including listening skills, the experience and value of compassion and compassionate action, the ethics of caring, and the effects of power relations in the helping profession. Professional pathways will be explored including, degree requirements, nature of the work, types of clientele served, theoretical modalities, work sites, ethical dimensions, and desirable personal characteristics.

COUN 3102. The Social Construction Of Relationships. Units: 3

This course emphasizes how the construction of identity is shaped through experiences that are tied to social, political, cultural and environmental processes that intersect with various forms of institutionalized power, privilege and oppression.

COUN 3103. Introduction To Counseling Skills & Practices. Units: 3

Semester Prerequisite: COUN 3101

Counseling is an interpersonal process with culturally-based ideas and practices that has effects on social interaction, interpersonal communication, and social change. This is an introductory course to counseling and compassionate listening skills with a particular focus on understanding how stories are constructed and shape identities utilizing an active and participatory learning experience. May be taken twice for a total of 6 units. THIS COURSE DOES NOT PROVIDE PROFESSIONAL COUNSELOR PREPARATION STATUS.

COUN 3104. Counseling & Social Change. Units: 3

This course provides a critical analysis of issues and actions needed to advance social justice in counseling practice. It attends to the contemporary social, cultural, and economic issues that often negatively affect the lives of clients. The emphasis is on promoting social change within the counseling context among client groups that have historically been marginalized or oppressed in some fashion.

COUN 5953. Independent study in counseling. Units: 3

Independent study in counseling as needed to fulfill graduation requirements. Individualized course requirements will be specified in each course syllabi to meet necessary standards and evaluative measures.

COUN 6220. Introduction to Counseling. Units: 3

Quarter Prerequisite: approval of admission portfolio

Introduction to basic and intermediate counseling practice, theories, and techniques. In order to ensure that students continue in the program, it is necessary to achieve a B or better in this course.

COUN 6221. Introduction to Research & Evaluation. Units: 3

Introduction to the vocabulary, design, and sources of quantitative, qualitative, and evaluation methodologies. Ethical strategies are examined for the collection of data and how data is reported. Research reports, including the identifying and development of trends, are studied. Students will be expected to critique trends in research and understand how professional practices of power influence such trends. May be taken two times for six units. This course meets the graduate writing requirement.

COUN 6222. Law & Ethics in Counseling. Units: 3

Discussion of ethical and legal constraints and considerations in the delivery of counseling services. May be taken two times for six units.

COUN 6223. Learning Theories. Units: 3

This course focuses on the developmental theories of learning and how this impacts a child's educational experiences. Emphasis on learning theories that covers both general and special education, the impact of individual differences and development of learners, and evaluation of learning and instructional models. This knowledge is geared towards the development of counselors as allies to both children, teachers, and administrators in a school system. Special attention will be paid to positive behavior interventions and the awareness of how classroom management techniques may support or discourage learning. May be taken two times for six units.

COUN 6224. Advanced Counseling. Units: 3

Semester Prerequisite: COUN 6220

Supervised practice in counseling in a classroom setting and with clients. Includes 30 hours of practice. This course requires a B or better for students to remain in good standing in the program and progress to placement courses.

COUN 6225. Systems Consultation. Units: 3

Systems theory as it applies to families, schools, and larger systems of care. Theory and methods of consultation with families regarding students' success. Inclusion of the family system in consultations with teachers and other professionals. May be taken two times for six units.

COUN 6226. Conflict Resolution. Units: 3

Understanding and responding to conflict in relationships, schools, and communities. Includes conflict coaching, mediation, and conferencing practices. May be taken two times for six units.

COUN 6227. Counseling Theories. Units: 3

Theories and practices of counseling; applications to educational and community settings.

COUN 6228. Addictions Counseling. Units: 3

Diagnosis of addictions and counseling of persons affected by addiction to legal and illegal substances.

COUN 6229. Socio-Cultural Counseling. Units: 3

Theory of and practical applications of counseling to serve diverse groups of people in school and community settings. How counseling can contribute to social justice for people from various gender, ethnicities, races, social class, sexual orientations, and religious backgrounds. May be taken two times for six units.

COUN 6230. Human Development in Counseling. Units: 3

This course will cover the history of human development through the lifespan, with particular attention paid to the political and historical forces that influenced ideas and practices. May be taken two times for six units.

COUN 6231. Group Counseling. Units: 3

Theory and practice of group counseling in schools or community and mental health settings. Includes 30 hours of practice. May be taken two times for six units.

COUN 6232. Career Counseling. Units: 3

This course provides an overview of career counseling, career education and application of career counseling and guidance to schools, educationally related agencies and special settings. May be taken two times for six units.

COUN 6233. Practice Based Placement. Units: 3

Semester Prerequisite: COUN 6220, COUN 6222, COUN 6244 Quarter Prerequisite: COUN 6220, 6222, 6224, 6229 & 6231; Certificate of clearance from the CTC, Valid and current TB skin test (within the last three years)

Advanced practice-based placement in either a school/educational setting OR a community or mental health setting under the supervision of certificated and/or licensed personnel. May be taken five times for 15 units.

COUN 6234. Diagnosis. Units: 3

Principles of the diagnostic process. Use of diagnostic tools. The impact of co-occurring substance abuse and medical disorders. Diagnostic interviewing skills. Planning for treatment and documentation.

COUN 6235. Crisis and Trauma Counseling. Units: 3

This course surveys the theoretical foundations and approaches to crisis intervention and the treatment of the effects of trauma. Emphasis is given to understanding the concepts of crises and trauma through a poststructural lens, focusing on incident debriefing techniques and narrative strength inquiries when responding to crisis situations in clients lives.

COUN 6236. Psychopharmacology. Units: 3

Understanding the purposes and effects of the main pharmaceuticals used in mental health settings.

COUN 6237. Appraisal. Units: 3

Individual and group measurement with emphasis on behavior observation skills, test interpretation in counseling, and an introduction to personality, intelligence, vocational, achievement and projective measurements.

COUN 6238. Aging, Death & Grief in Couples & Families. Units: 3

Theories and research about aging and dying, counseling the dying and the bereaved, and how it impacts couples and families. This includes an understanding of working with older adults, relevant pharmacology, elder abuse, APS reporting, caregiving, and the impact on families using a family systems approach. May be taken two times for six units.

COUN 6239. Family Counseling. Units: 3
This course explores family therapy theories, along with core concepts of general systems theory. Both foundational family therapy theories and postmodern approaches are covered with a focus on application to counseling. A critical contextual perspective is privileged throughout. May be taken two times for six units.

COUN 6240. Professional School Counseling. Units: 3
Theory and practical applications of comprehensive school counseling programs at the elementary, middle and high school levels including guidance curriculum development and program management.

COUN 6241. Gender & Sexuality. Units: 3
Human sexuality and gender across the lifespan and counseling interventions addressing gender identity and sexual relationship issues. May be taken two times for six units.

COUN 6265. Family Violence. Units: 3
Child abuse assessment and reporting. Spousal/partner abuse assessment, and intervention strategies. This course replaces ECLG 665.

COUN 6960. Master's Degree Project. Units: 0
Research project related to counseling conducted under the direction of two program faculty members. Formerly ECLG 697.

COUN 6980. Comprehensive Examination. Units: 0
Quarter Prerequisite: advancement to candidacy, approval of department, completion of course work in the masters program, and in good academic standing
An assessment of the students ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter.

Computer Science & Engineering (CSE)

Courses

CSE 1100. Critical Thinking Through Computer Programming. Units: 3
Introduction to computational thinking and computer programming with the easy-to-learn Python programming language. Development of critical thinking and logical reasoning through collaborative problem solving with computer programming. An introductory programming course suitable for liberal arts and sciences students. Two hours lecture and two hours activity laboratory. Materials fee required. Satisfies GE A3/1B, Digital Life pathway.

CSE 1110L. Data Analysis Laboratory Using Spreadsheets. Unit: 1
Introductory laboratory course to data analysis using spreadsheet software. Data Analysis is a fundamental methodology for studying physical and life sciences. Spreadsheets such as Microsoft Excel are widely used for data analysis in living and non-living systems. This course help students understand the core concepts of data analysis, learn to apply data analysis techniques, and become proficient in data analysis in the software environment. Suitable for anyone who seeks a working knowledge of data analysis, and for learners who want to consolidate their skills in spreadsheets. Satisfies GE B3/5C. Materials fee required.

CSE 1120L. Scientific Simulation. Unit: 1
Introductory course using computer simulation to enhance learning and understanding of real-world process operations, scientific principles, and theories. Learning of basic concepts, methods, and procedures of computer simulation to imitate, explore, and understand theories and processes in the physical and life sciences. Satisfies GE B3/5C. Materials fee required.

CSE 1250. Programming Basics. Units: 4
Programming techniques in an event-driven and object-oriented environment. Graphical user interfaces, controls, properties, procedures, and functions. Multiple forms, menus, file access, and applications. Three hours lecture and two hours activity laboratory. Materials fee required. Formerly CSE 125.

CSE 1290. College Learning for Lives and Careers in the Information Age. Units: 3
Reflection on the role of computer technology, digital devices, and smart electronics for living and learning in the information age. Examination of impact of technology on quality of life, appreciation of technological progress, understanding of responsibilities and awareness of drawbacks and dangers to interpersonal relationships. Topics include distance vs. face-to- face learning; communicating and socializing across distance vs. loss of human contact and social isolation; internet and smart technologies as causes for information overload and stress, and declining vs. newly emerging careers due to artificial intelligence. Formerly CSE 129.

CSE 1300. Introduction to Data Science. Units: 3
Introduction to data acquisition, data manipulation, data modeling, data mining, data analysis, data visualization, and data processing. Sampling and applications of basic techniques of data science. Satisfies GE B4/2.

CSE 1300L. Introduction to Data Science Lab. Unit: 1
Semester Corequisite: CSE 1300
Additional instruction and practice for students registered in CSE 1300. Targeted activities and exercises to enhance understanding of concepts from the companion class. Topics include: understanding data as means to describe phenomena, learning about different types of data, data collection through processes of data discovery and data mining, computer-aided exploration of data and data visualization, drawing conclusions from data to make diagnoses and predictions. Placement determined by campus placement standards and consultation with an adviser. Graded Credit/ No credit.

CSE 2000Q2S. Computer Science II Semester Bridge. Units: 2
Semester Prerequisite: CSE 201 with a grade of C or better
This bridge course is a continuation of CSE 201 and will include content from CSE 202. Topics will include analysis of problems and the formulation, documentation and implementation of their solutions; an introduction to data structures with abstract data types; software engineering principles for both individual and group projects. The sequence CSE 201 and CSE 2000Q2S is equivalent to CSE 2010; students may not earn credit for both the sequence CSE 201 - CSE 2000Q2S and the semester course CSE 2010. Students who have completed CSE 202 may not earn credit for CSE 2000Q2S. One and half hours lecture and one hour lab per week for the duration of the semester. Department consent required.

CSE 2010. Computer Science I. Units: 4

Semester Prerequisite: CSE 1250 or Instructor consent. Quarter Prerequisite: satisfactory score on the Entry Level Mathematics examination, and either some prior computer programming experience or CSE 125

Computer software design, implementation, methods, and environments using a current high-level programming language. Survey of computers, applications, and other areas of computer science. Materials fee required. Formerly CSE 201 and CSE 202.

CSE 2020. Computer Science II. Units: 4

Semester Prerequisite: CSE 2010 with a grade of C or better and MATH 2372. Quarter Prerequisite: CSE 201 with a grade of C or better and MATH 272

Abstract data structures, including list, stack, queue, tree, and map, and their implementation, storage allocation, and associated applications; analysis of problems and formulation, documentation, and implementation of their solutions; software engineering principles. Materials fee required. Three hours lecture and two hours activity. Formerly CSE 330.

CSE 2130. Machine Organization. Units: 3

Semester Prerequisite: CSE 2010. Quarter Prerequisite: CSE 202

Number systems and data encoding, von Neumann computer architecture, instruction set architecture, addressing modes, arrays and records, subroutines and interrupts, I/O, assembly programming. Formerly CSE 313.

CSE 3100. Digital Logic. Units: 4

Semester Prerequisite: CSE 2010 and MATH 2372. Quarter Prerequisite: CSE 202 and MATH 272

Diodes and transistors, Boolean algebra and logic simplification, design and analysis of combinational and sequential circuits, memory elements, counters, introduction to hardware description language and FPGA programming. Three hours lecture and three hours laboratory. Materials fee required. Formerly CSE 310.

CSE 3350. Signals and Systems. Units: 3

Semester Prerequisite: MATH 2220 Calculus II and MATH 2310 Linear Algebra. Quarter Prerequisite: MATH 213 and MATH 331

Fundamentals of signal and system analysis; representations of discrete-time and continuous-time signals; linear, time-invariant systems; complex arithmetic and geometries; differential equations; Fourier, Laplace and Z transforms; frequency response. Formerly CSE 335.

CSE 3650. Systems Administration I. Units: 3

Semester Prerequisite: CSE 2010. Quarter Prerequisite: CSE 201

Responsibilities and skills of the systems administrator; managing accounts, file systems, system services, and email; security, reliability, and backups; emergencies; monitoring; automation and scripting; ethics and usability. Formerly CSE 365. Two hours lecture and two hours laboratory. Materials fee required.

CSE 3660. Systems Administration II. Units: 3

Semester Prerequisite: CSE 3650. Quarter Prerequisite: CSE 365

Planning and configuration of networks; network topologies; networking standards and OSI Model; TCP/IP protocol suite; network services; switches and routers; network security. Formerly CSE 366. Two hours lecture and two hours laboratory. Materials fee required.

CSE 3900. Computational Thinking and Block-based / Visual Programming for Educators. Units: 3

Involves solving problems and designing systems, using fundamental computing concepts such as decomposition, data representation, generalization/abstraction, and algorithms. Introduction to at least one block-based, visual (drag-and-drop) programming language. Cannot be counted towards fulfilling requirements in the following programs: BS in Computer Science, BS in Computer Engineering, BS in Bioinformatics, BA in Computer Systems, MS in Computer Science. Departmental consent required.

CSE 3901. Computer Programming for Educators. Units: 3

Semester Prerequisite: CSE 3900

Problem-solving techniques and algorithms. Basic control structures and data types. File I/O and exception handling. Program documentation and testing. Object-oriented concepts including classes, inheritance, and polymorphism. This course will cover a current high-level programming language such as Java and/or Python. Cannot be counted towards fulfilling requirements in the BA in Computer Systems.

CSE 3902. Data Structures and Algorithms for Educators. Units: 3

Semester Prerequisite: CSE 3901

Abstract data structures, including list, stack, queue, tree, and map, and their implementation, storage allocation, and associated applications; analysis of problems and formulation, documentation, and implementation of their solutions. Techniques in algorithm design. Cannot be counted towards fulfilling requirements in the following programs: BS in Computer Science, BS in Computer Engineering, BS in Bioinformatics, BA in Computer Systems, MS in Computer Science.

CSE 3903. Software Development for Educators. Units: 3

Semester Prerequisite: CSE 3901

Covers the process of planning, engineering and implementing a software system to solve a problem. Introduction to database systems. Use of software tools, such as authoring and database tools, for the development of educational software. Cannot be counted towards fulfilling requirements in the following programs: BS in Computer Science, BS in Computer Engineering, BS in Bioinformatics, BA in Computer Systems, MS in Computer Science.

CSE 3904. Information and Communication Technologies and Social Implications. Units: 3

Covers computer and communication devices and the systems they compose, including the concepts and abstractions that enable standalone, networked, and mobile digital devices to operate and communicate. Includes the social, ethical, and legal issues and impacts of computing, as well as the contributions of computer science to current and future innovations in the arts, business, humanities, medicine, and science. Cannot be counted towards fulfilling requirements in the following programs: BS in Computer Science, BS in Computer Engineering, BS in Bioinformatics, BA in Computer Systems, MS in Computer Science. Departmental consent required.

CSE 4010. Contemporary Computer Architecture. Units: 4

Semester Prerequisite: CSE 3100 and CSE 2130. Quarter Corequisite: Q2S conversion. Quarter Prerequisite: CSE 310 and CSE 313
Instruction set architecture; design methodology; performance measurement; computer arithmetic; memory hierarchy; RISC architectures, including pipelining and parallel-processing; distributed system architectures. Three hours lecture and three hours laboratory. Materials fee required. Formerly CSE 401.

CSE 4030. Analog Circuit Design and Analysis. Units: 4

Semester Prerequisite: CSE 3100 and CSE 3350. Quarter Prerequisite: CSE 310, MATH 251, and PHYS 150
Design and analysis of analog circuits: circuit elements, mesh and node analysis, op-amps, circuit analysis in frequency domain and S domain, and transfer function. Three hours lecture and three hours laboratory. Materials fee required. Formerly CSE 403.

CSE 4050. Web Application Development. Units: 3

Semester Prerequisite: CSE 2020. Quarter Prerequisite: CSE 330
Web application protocols (IP, TCP, DNS, TLS, HTTP), Web standards (HTTP, CSS, Javascript), database backends, Web server execution environments, client-side frameworks, developer tools, application security. Formerly CSE 405.

CSE 4100. Computer Networking and Security. Units: 3

Semester Prerequisite: CSE 2020. Quarter Prerequisite: CSE 330
Computer networks, network security, OSI model, TCP/IP, LAN and WAN, network principles and protocols, wireless networks, network management, network and web security.

CSE 4160. Generative AI and Applications. Units: 3

Semester Prerequisite: CSE 2010 and MATH 2210
Introduction to Generative Artificial Intelligence (GenAI) and its applications across multiple domains. Topics include: the foundational concepts behind generative models, large language models (LLMs), real-world use cases, hands-on experience with generative AI tools, and discussions on ethical and social implications of GenAI.

CSE 4200. Computer Graphics. Units: 3

Semester Prerequisite: CSE 2020 and Math 2310. Quarter Prerequisite: CSE 330 and MATH 331
Survey of computer graphics hardware. Basic principles of creating computer graphics, opengl programming, animation, two-dimensional and three-dimensional transformations, hidden surface removal algorithms, and applications. Formerly CSE 420.

CSE 4310. Algorithm Analysis. Units: 3

Semester Prerequisite: CSE 2020 and MATH 2310. Quarter Prerequisite: CSE 330 and MATH 372
Analysis and design of algorithms, including time and space complexity, design methodologies, and taxonomic classification of problems. Formerly CSE 431.

CSE 4400. Game Design. Units: 3

Semester Prerequisite: CSE 2020. Quarter Prerequisite: CSE 330
Study of game design concepts and game design specification. Principles of user interface layout, game design techniques, game design methodologies, artificial intelligence in gaming, and game design tools. Formerly CSE 440.

CSE 4410. Game Programming. Units: 3

Semester Prerequisite: CSE 2020. Quarter Prerequisite: CSE 330
Techniques and technology used to produce games, game engines and their APIs, art asset creation, level design tools, game project development environments, and version control. Formerly CSE 441.

CSE 4500. Platform Computing. Units: 3

Semester Prerequisite: CSE 2020. Quarter Prerequisite: CSE 330
Mobile, cloud-based, or web-based app design and development. Also includes cross and multi-platform issues, and virtual reality and social network concepts.

CSE 4550. Software Engineering. Units: 3

Semester Prerequisite: CSE 2020. Quarter Prerequisite: CSE 330
Software life-cycle, software processes, practice of software engineering for software design and development, and team collaboration in a culminating software project is required. Formerly CSE 455.

CSE 4560. Embedded Systems. Units: 4

Semester Prerequisite: CSE 3100 and CSE 2130. Quarter Prerequisite: CSE 310 and CSE 313
Theory and practice of software and hardware co-design: microcontrollers and programming, data acquisition, real-time operating systems, and low-power design techniques. Three hours lecture and three hours laboratory. Materials fee required. Formerly CSE 456.

CSE 4600. Operating Systems. Units: 3

Semester Prerequisite: CSE 2020 and CSE 2130. Quarter Prerequisite: CSE 313 and CSE 330
Overview, design, implementation, and security of operating systems. Process management, memory management, file systems, multiprocessor systems, distributed systems. Formerly CSE 460.

CSE 4610. Advanced Operating Systems. Units: 3

Semester Prerequisite: CSE 4600. Quarter Prerequisite: CSE 460
File systems, I/O systems, security distributed systems. Formerly CSE 461.

CSE 4820. Senior Project. Units: 3

Semester Prerequisite: Consent of the school of CSE. Quarter Prerequisite: Consent of the department
Analysis, design and implementation of a software system that solves a problem related to the student's option. Presentation techniques and communication skills to support project planning and execution. Consent of the School of CSE required. Formerly CSE 482.

CSE 4880. Ethics Senior Seminar. Units: 3

Semester Prerequisite: Senior Standing
Seminars on a wide range of computer science topics especially as it pertains to professionalism, ethics, legal issues and the social impact and role of computer technology. Also includes presentations from industry and university personnel, and students regarding projects and research work. Satisfies WI designation.

CSE 5000. Introduction to Formal Languages and Automata Theory. Units: 3

Semester Prerequisite: CSE 2020. Quarter Prerequisite: CSE 431 or consent of instructor
Introduction to formal language theory. Finite state machines, regular grammars, context-free grammars, context-sensitive grammars, push-down automata, Turing machine, closure properties. Formerly CSE 500.

CSE 5010. Introduction to Theory of Computation. Units: 3

Semester Prerequisite: CSE 5000 or consent of instructor. Quarter Prerequisite: CSE 500 or consent of instructor
Theoretical foundations of computer science: deterministic and non-deterministic Turing machines, models of computation; recursive functions, Church's thesis and undecidable problems; complexity classes P, NP, CO-NP and PSPACE. May not be taken for graduate credit. Formerly CSE 501.

CSE 5100. Advanced Computer Architecture. Units: 3

Semester Prerequisite: CSE 4010. Quarter Prerequisite: CSE 401
High performance computer architectures and algorithms including pipeline, vector, array, multiprocessor computer designs, applications, and programming. Also covered are data flow and systolic machines, interconnection networks, and graph and parallel graph algorithms. May not be taken for graduate credit. Formerly CSE 510.

CSE 5120. Introduction to Artificial Intelligence. Units: 3

Semester Prerequisite: CSE 2020. Quarter Prerequisite: CSE 330
Foundations of artificial intelligence, current techniques and methods, problems, limitations and future prospects of machine intelligence. Formerly CSE 512.

CSE 5140. Computational Intelligence. Units: 3

Semester Prerequisite: Math 2210 and CSE 2020. Quarter Prerequisite: MATH 211 AND CSE 330
Recent developments in computational intelligence, a discipline which encompasses ideas from neural networks, fuzzy logic, evolutionary computation and in general from soft-computing areas. Solving real-world problems that are difficult to solve using traditional techniques. Includes optimization, pattern recognition, deep learning, decision making and prediction. Formerly CSE 514.

CSE 5150. Automated Reasoning. Units: 3

Semester Prerequisite: CSE 4310. Quarter Prerequisite: CSE 431
Study of logical deduction algorithms and their limitations, propositional and predicate calculus, completeness and incompleteness theorems, Herbrand-Gödel computability, the resolution principle, equality and inequality relations. Automation of theorem proving techniques. Formerly CSE 515. Similar to PHIL #400 or PHIL 400. Students may not receive credit for this course and any of the above courses.

CSE 5160. Machine Learning. Units: 3

Semester Prerequisite: CSE 2020 and Math 2265. Quarter Prerequisite: CSE 330
Theory and practice of machine learning: reinforced learning, supervised learning such as SVMs, data clustering, learning in multi-agent systems, applications in computer vision, and knowledge discovery in big data. Formerly CSE 516.

CSE 5200. Advanced Computer Graphics. Units: 3

Semester Prerequisite: CSE 4200. Quarter Prerequisite: CSE 420
Advanced computer graphics concepts, theory and implementation techniques. Shading models and languages, parametric curves and surfaces, hidden edge and surface removal, and anti-aliasing. Formerly CSE 520.

CSE 5208. Introduction to Computer Engineering Design. Units: 4

Introduction to the principles of engineering design. Requirements analysis, system specifications, project management and tools, human-computer interface, accessibility and inclusivity of products, engineering ethics, technical writing. Three hours lecture and three hours laboratory. Materials fee required. Satisfies WI designation. Department consent required.

CSE 5210. Digital System Design. Units: 4

Semester Prerequisite: CSE 4010. Quarter Prerequisite: CSE 401
Digital system design with FPGA, control and datapath, architecture and synthesis, design constraints, I/O peripherals. Three hours lecture and three hours laboratory. Materials fee required. Formerly CSE 521.

CSE 5250. Parallel Algorithms and Programming. Units: 3

Semester Prerequisite: CSE 4010. Quarter Prerequisite: CSE 401
Topics include algorithm design, analysis, and programming of high performance computers. Also covered are control-parallel versus data-parallel approaches, and selected parallel programming languages. Formerly CSE 525.

CSE 5300. Data Communications. Units: 3

Semester Prerequisite: CSE 2020 and CSE 3350. Quarter Prerequisite: CSE 313 or 598, and CSE 330
Principles of analog and digital communications. Signal modulation principles and schemes, digitization and synchronization, channel coding, communication protocols and conventions, base-band signal representation and transmission. Formerly CSE 530.

CSE 5350. Numerical Computation. Units: 3

Semester Prerequisite: CSE 2020 and MATH 2310. Quarter Prerequisite: MATH 331
Introduction to scientific computing. Algorithms related to approximations, zero findings, least squares, eigenvalue problems, numerical differentiation and integration, data fitting and interpolation, optimizations, nonlinear equations. Formerly CSE 535.

CSE 5360. Data Visualization. Units: 3

Semester Prerequisite: CSE 2010 or instructor consent
Theory and practical concepts in visual representations of data. Core topics in data visualization including human visual perception, data representation, visualization toolkits, scientific visualization, information visualization and visual analytics.

CSE 5408. Sustainable Engineering Design. Units: 4

Semester Prerequisite: CSE 5208. Quarter Prerequisite: CSE 308
Guided engineering design project on an ongoing real-world problem. System architectural design and evaluation; concurrent hardware and software design; system integration, testing and validation; maintainability; sustainability; safety and fault tolerance; project documentation. Three hours lecture and three hours laboratory. Materials fee required. Formerly CSE 408.

CSE 5410. Robotics and Control. Units: 4

Semester Prerequisite: CSE 3100 and Math 2310. Quarter Prerequisite: CSE 310 and CSE 313

Theory and practice of forward and reverse kinematics, PID control, robotic construction and programming. Three hours lecture and three hours laboratory. Materials fee required. Formerly CSE 541.

CSE 5420. Reinforcement Learning. Units: 3

Semester Prerequisite: CSE 2020 and MATH 2265

Foundational concepts in Reinforcement Learning (RL) emphasizing single-agent decision-making problems. Development of models of real-world scenarios using Markov Decision Processes. Practice of value- and policy-based methods (Q-learning, deep policy-gradient methods, deep RL techniques). Hands-on programming using the latest Python libraries for RL algorithms.

CSE 5430. Deep Learning. Units: 3

Semester Prerequisite: CSE 2020

Deep learning fundamentals with emphasis on neural network structures, training methods, and optimization techniques such as backpropagation and gradient descent techniques. Topics include fully connected and convolutional networks. Hands-on programming with industry-standard frameworks (e.g., PyTorch).

CSE 5460. Natural Language Processing. Units: 3

Semester Prerequisite: CSE 2020

Introduction to Natural Language Processing (NLP), focusing on both linguistic and deep learning approaches. Including fundamental concepts in NLP, classic NLP methods, modern transformer-based models, application of machine learning and deep learning techniques to NLP tasks, hands-on programming using NLP tools/libs to reinforce theoretical knowledge.

CSE 5500. Advanced Bioinformatics I: Sequence Analysis. Units: 3

Semester Prerequisite: Senior standing or consent of instructor. Quarter Prerequisite: CSE 431 and senior standing or consent of instructor

The course covers how application of computational techniques can help in solving real life problems, related to biology and biochemistry including the efficient use multiple genomics and bioinformatics tools for the analysis of DNA, RNA, and protein sequences. Formerly CSE 550.

CSE 5510. Advanced Bioinformatics II: Numerical Modeling. Units: 3

Semester Prerequisite: CSE 5350. Quarter Prerequisite: CSE 535

Numerical techniques for the modeling and simulation of biological and chemical systems using ordinary and partial differential equations, and stochastic variables. Formerly CSE 551.

CSE 5700. Compilers. Units: 3

Semester Prerequisite: CSE 2020 and CSE 2130. Quarter Prerequisite: CSE 313 and CSE 330

Interpreter and compiler structures. Topics include symbol tables, lexical and syntactic analyzers, and object code generation. Formerly CSE 570.

CSE 5720. Database Systems. Units: 3

Semester Prerequisite: CSE 2020. Quarter Prerequisite: CSE 330

Basic concepts of database design and theory, including underlying storage structures and alternative approaches to database models (relational, object-relational, network and hierarchical). Hands-on applications with one or more commercial database management systems. Formerly CSE 572.

CSE 5750. Internship in Computer Science and Engineering. Units: 3

Semester Prerequisite: A minimum overall grade point average of 3, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the semester in which the course is to be taken. Quarter Prerequisite: A minimum overall grade point average of 3, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken

Supervised work and study in private or public organizations. Graded credit/no credit. Formerly CSE 575.

CSE 5800. Advanced Database Systems. Units: 3

Semester Prerequisite: CSE 5720. Quarter Prerequisite: CSE 572

Advanced study of components of general database systems and other topics such as implementation methods, query language design, reliability, integrity, performance measures, distributed database systems and database machines. Formerly CSE 580.

CSE 5940. Topics in Computer Science and Engineering. Units: 3

Semester Prerequisite: CSE 2020 or consent of instructor. Quarter Prerequisite: CSE 330 or consent of instructor

An in-depth consideration of selected areas of computer science and engineering. May be repeated for credit as topics change, credit may not be received twice for the same topic. Formerly CSE 594.

CSE 5951. Independent Study. Unit: 1

Semester Prerequisite: A minimum overall grade point average of 3, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the semester in which the course is to be taken. Quarter Prerequisite: A minimum overall grade point average of 3

Laboratory and/or library research conducted under the direction of a faculty member. May be repeated three times. A total of three units of Independent Study may be applied toward the computer science, computer systems, computer engineering, and bioinformatics majors. Consent of the school required. Formerly CSE 595A.

CSE 5952. Independent Study. Units: 2

Semester Prerequisite: A minimum overall grade point average of 3, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the semester in which the course is to be taken. Quarter Prerequisite: A minimum overall grade point average of 3

Laboratory and/or library research conducted under the direction of a faculty member. A total of three units of Independent Study may be applied toward the computer science, computer systems, computer engineering, and bioinformatics majors. Formerly CSE 595B.

CSE 5953. Independent Study. Units: 3

Semester Prerequisite: A minimum overall grade point average of 3, consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the semester in which the course is to be taken. Quarter Prerequisite: a minimum overall grade point average of 3

Laboratory and/or library research conducted under the direction of a faculty member. A total of three units of Independent Study may be applied toward the computer science, computer systems, computer engineering, and bioinformatics majors. Formerly CSE 595C.

CSE 6010. Foundations of Data Science. Units: 3

Semester Prerequisite: Graduate standing
Introduction to fundamental concepts in probability, statistics, and linear algebra from the data science perspective. Topics include primary tools used for data science in Python, descriptive and inferential statistics, data representation, data cleaning and preprocessing, and feature selection methodologies.

CSE 6020. Computation and Complexity Theory. Units: 3

Semester Prerequisite: Graduate standing in computer science or consent of instructor. Quarter Prerequisite: CSE 500 or consent of instructor
Theoretical foundations of computer science: deterministic and non-deterministic Turing machines, models of computation; recursive functions, Church's thesis and undecidable problems; complexity classes P, NP, CO-NP and PSPACE. May not be taken for credit by students who have received credit for CSE 5010 or CSE 501. Formerly CSE 602.

CSE 6030. Advanced Computation and Complexity Theory. Units: 3

Semester Prerequisite: CSE 6020 or consent of instructor. Quarter Prerequisite: CSE 602 or consent of instructor
Advanced topics in theoretical foundations of computer science:Church's thesis and undecidable problems; time and space complexity classes and relation to time randomized computation, interactive proofs; circuit computational model and circuit complexity; crytography and quantum complexity. Formerly CSE 603.

CSE 6100. Modern Computer Architecture. Units: 3

Semester Prerequisite: Graduate standing in computer science or consent of instructor. Quarter Prerequisite: CSE 401 or consent of instructor
Study of the elements and construction of advanced computer systems, including parallel systems, vector processors, network scheduling, pipelining, array processors, and systolic arrays. May not be taken for credit by students who have received credit for CSE 5100 or CSE 510. Formerly CSE 610.

CSE 6110. VLSI Circuit Design. Units: 3

Semester Prerequisite: graduate standing in computer science or consent of instructor. Quarter Prerequisite: graduate standing in computer science or consent of instructor
Fundamental design techniques for Very Large Scale Integrated (VLSI) circuits; physics of semi-conductor devices; design rules and circuit layouts; use of computer-aided design tools for design, layout and testing. Formerly CSE 611.

CSE 6200. Programming Languages Theory. Units: 3

Semester Prerequisite: Graduate standing in Computer Science or consent of instructor. Quarter Prerequisite: graduate standing in computer science or consent of instructor
Theory of programming languages, including implementation details, the required machine and data structures needed for user interfaces, coded parallelism, distributed processing facilities, functional and object oriented programming languages. Formerly CSE 620.

CSE 6210. Contemporary Computer Graphics. Units: 3

Semester Prerequisite: Graduate standing in computer science or consent of instructor, and basic knowledge of computer graphics. Quarter Prerequisite: Graduate standing in computer science or consent of instructor, and basic knowledge of computer graphics
Theory and practice of modern computer graphics techniques. Topics include 3-D modeling, interaction, ray tracing, object representation, visualization, and animation techniques. Formerly CSE 621.

CSE 6220. Data Visualization. Units: 3

Semester Prerequisite: CSE 6010
Data visualization techniques to effectively communicate insights from complex datasets. Hands-on experience with a range of data visualization tools.

CSE 6240. Distributed Computer Systems. Units: 3

Semester Prerequisite: graduate standing in computer science or consent of instructor. Quarter Prerequisite: graduate standing in computer science or consent of instructor
Message passing; implementation of shared data over messaging; distributed control; access methods; reliability; heterogeneity; resilience; applications in operating systems, synchronization, and deadlock. Formerly CSE 624.

CSE 6250. Multiprocessor and Parallel Processing. Units: 3

Semester Prerequisite: Graduate standing in Computer Science or consent of instructor. Quarter Prerequisite: graduate standing in computer science or consent of instructor
Tightly and loosely coupled multiprocessors; interconnection network; parallel programming languages; scheduling; problem decomposition; performance; synchronization; communication; multiprocessor programming. May not be taken for credit by students who have received credit for CSE 525 or CSE 5250. Formerly CSE 625.

CSE 6300. Theory of Algorithms and Their Analysis. Units: 3

Semester Prerequisite: Graduate standing in computer science or consent of instructor. Quarter Prerequisite: CSE 431 or consent of instructor
Algorithmic techniques, construction, time and space complexities, properties of taxonomic classes; survey of processing algorithms for graphs, trees, sets, and sequences; algebraic, numeric and geometric analysis techniques; dynamic programming, randomized algorithms, parallel algorithms; NP. Formerly CSE 630.

CSE 6310. Advanced Data Communications. Units: 3

Semester Prerequisite: CSE 5300 or CSE 4100 or consent of instructor. Quarter Prerequisite: CSE 530 or consent of instructor
High bandwidth networks, formal models of network performance, traffic and congestion control, formal routing theory, quality of service, and internet protocol suite adaptations to high bandwidth networks. Formerly CSE 631.

CSE 6320. Big Data Management. Units: 3

Semester Prerequisite: CSE 6010
Architecture and design of big data management systems. Covers state-of-the-art big data management tools, specifically those in the Hadoop framework. Hands-on experience with popular programming models for big data including MapReduce and Spark.

CSE 6330. Data Mining. Units: 3

Semester Prerequisite: CSE 6010
Introduction to data mining principles for discovering patterns in large datasets. Methods for the knowledge discovery process including association rule mining, sequential pattern mining, cluster analysis, anomaly detection, and classification methods.

CSE 6340. Neural Networks. Units: 3

Semester Prerequisite: Graduate standing in computer science or consent of instructor. Quarter Prerequisite: Graduate standing in computer science or consent of instructor
Theory and applications of neural networks; current developments; perceptrons, recurrent networks, self-organizing maps, multi-layer networks, deep learning, content-addressable memories. Formerly CSE 634.

CSE 6350. Numerical Algorithms and Simulation. Units: 3

Semester Prerequisite: CSE 5350 or consent of instructor. Quarter Prerequisite: CSE 535 or consent of instructor
Scientific computing and simulation. Systems of liner equations, linear least squares, backward error analysis and numerical stability, stiff equations, simulation, sparse matrices. Formerly CSE 635.

CSE 6400. Artificial Intelligence. Units: 3

Quarter Prerequisite: Graduate standing in computer science or consent of instructor
Knowledge representations, heuristics, theory of problem solving; adaptive systems; natural language understanding; automatic theorem proving; machine learning and robotics systems. Formerly 640.

CSE 6550. Software Engineering Concepts. Units: 3

Semester Prerequisite: Graduate standing in computer science or consent of instructor. Quarter Prerequisite: CSE 455, 555, or 556 or consent of instructor
Analysis of software requirements definitions, software systems design, implementation issues, verification and validation, and software maintenance techniques; rapid prototyping procedures; operational and transformational paradigms of software development; software engineering models and applications in object-oriented programming languages. Formerly CSE 655.

CSE 6560. Formal Methods, Models and Languages. Units: 3

Semester Prerequisite: Consent of instructor. Quarter Prerequisite: Consent of instructor
Applications of logic and mathematics in documenting problems, requirements, specifications, designs, and software. Formal modeling languages. Diagrammatic, algebraic, and tabular models. Model checking. Students prepare, check, and present models using techniques in the literature for a research paper. Formerly CSE 656.

CSE 6600. Operating Systems Concepts and Theory. Units: 3

Semester Prerequisite: Graduate standing in computer science or consent of instructor. Quarter Prerequisite: CSE 460 or consent of instructor
Operating system concepts and scheduling practices, including security, real time, multiprocessing, resource sharing, distributed file systems and peripherals access scheduling; distributed processing environments and parallel processing facilities. Formerly CSE 660.

CSE 6700. Compiler Design Theory. Units: 3

Semester Prerequisite: graduate standing in computer science or consent of instructor. Quarter Prerequisite: graduate standing in computer science or consent of instructor
Compiler design for block structures, general purpose programming languages; automatic generation of lexical analyzers and parsers; error detection and correction; code optimization. Formerly CSE 670.

CSE 6710. Advanced Compilers. Units: 3

Semester Prerequisite: graduate standing in computer science or consent of instructor. Quarter Prerequisite: graduate standing in computer science or consent of instructor
Intermediate code generation, optimization, object code generation and architecture and optimized compiler co-design. An introductory course in compilers is recommended. Formerly CSE 671.

CSE 6800. Distributed Database Management Systems. Units: 3

Semester Prerequisite: graduate standing in computer science or consent of instructor. Quarter Prerequisite: graduate standing in computer science or consent of instructor
Distributed database issues including methods of data distribution, types of remote database access, concurrency management, extensions to Structured Query Language (SQL) for remote databases, cooperative processing, database machines and intelligent databases. May not be taken for credit by students who have received credit for CSE 5800. Fomerly CSE 680.

CSE 6880. Data Science Capstone Project. Units: 4

Semester Prerequisite: Advancement to candidacy in the MS in Applied Data Science program
Culmination of the MS in Applied Data Science program. Work on real-world projects that emphasize preparation for professional practice. Demonstration of proficiency in presenting and documenting work and preparing a formal data science project report. Requires departmental approval of a written project proposal submitted in advance of the semester in which the course is to be taken. May not be taken for credit in the MS in Computer Science program. Offered as CSE 6880 and MATH 6880. Students cannot receive credit for both.

CSE 6890. Graduate Seminar. Unit: 1

Semester Prerequisite: CSE 6020, CSE 6100, CSE 6300, CSE 6550, CSE 6600. Prerequisite: CSE 602, CSE 610, CSE 630, CSE 655, CSE 660
Presentations of current research areas and review of topics from the five required courses of the M.S. in Computer Science program. Graded credit/no credit.

CSE 6940. Graduate Research Methods in Computer Science. Units: 3

Semester Prerequisite: Classified standing in the MS program
Directed individual study of modern methods and techniques of conducting research in computer science, including performing literature review, under the supervision of the student's advisor. Graded credit/no credit. Consent of School required.

CSE 6950. Graduate Independent Study. Units: 3

Semester Prerequisite: graduate standing in computer science and approval of a written proposal of the research by the department graduate program coordinator. Quarter Prerequisite: graduate standing in computer science, consent of instructor, and approval of a written proposal of the research by the department graduate program coordinator
Independent graduate research in computer science. Consent of the School of CSE required. Formerly 695.

CSE 6962. Masters Project. Units: 2

Semester Prerequisite: advancement to candidacy. Quarter Prerequisite: advancement to candidacy and consent of department major advisor
Independent graduate project conducted under the guidance of a major advisor; a total of four units of Masters Project must be taken in contiguous semesters. Consent of the School of CSE required. Formerly CSE 690.

CSE 6964. Masters Project. Units: 4

Semester Prerequisite: advancement to candidacy. Quarter Prerequisite: advancement to candidacy and consent of department major advisor
Independent graduate project conducted under the guidance of a major advisor; four units of Masters Project may be counted to the MS in Computer Science. Formerly CSE 690. Consent of the School of CSE.

CSE 6972. Thesis. Units: 2

Semester Prerequisite: advancement to candidacy and consent of department major advisor. Quarter Prerequisite: advancement to candidacy and consent of department major advisor
Independent graduate research conducted under the guidance of a major advisor; a total of six units of Thesis may be applied to the MS in Computer Science and may be taken in one semester or in consecutive semesters. Consent of the School of CSE required. Formerly CSE 699B.

CSE 6973. Thesis. Units: 3

Semester Prerequisite: advancement to candidacy and consent of department major advisor. Quarter Prerequisite: advancement to candidacy and consent of department major advisor
Independent graduate research conducted under the guidance of a major advisor; a total of six units of Thesis may be applied to the MS in Computer Science and may be taken in one semester or in consecutive semesters. Consent of the School of CSE required. Formerly CSE 699C.

CSE 6974. Thesis. Units: 4

Semester Prerequisite: advancement to candidacy and consent of department major advisor. Quarter Prerequisite: advancement to candidacy and consent of department major advisor
Independent graduate research conducted under the guidance of a major advisor; a total of six units of Thesis may be applied to the MS in Computer Science and may be taken in one semester or in consecutive semesters. Consent of the School of CSE required. Formerly CSE 699D.

CSE 6976. Thesis. Units: 6

Semester Prerequisite: advancement to candidacy and consent of department major advisor. Quarter Prerequisite: advancement to candidacy and consent of department major advisor
Independent graduate research conducted under the guidance of a major advisor; a total of six units of Thesis may be applied to the MS in Computer Science and must be taken in or one semester or in consecutive semesters. Consent of the School of CSE required. Formerly CSE 699.

CSE 6980. Comprehensive Examination. Units: 0

Semester Prerequisite: CSE 6020, CSE 6100, CSE 6300, CSE 6550, CSE 6600 and consent of graduate coordinator. Quarter Prerequisite: CSE 602, CSE 610, CSE 630, CSE 655, CSE 660 and consent of graduate coordinator
Comprehensive examination. Topics include the material covered in the core courses: formal language and automata theory, computer architecture, algorithms, software engineering, and operating systems. May be repeated only once. Graded credit/no credit. Department consent required. Formerly CSE 689.

CSE 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CSE 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CSE 6992. Continuous Enrollment for Graduate Candidacy Standing. Units: 2

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CSE 6993. Continuous Enrollment for Graduate Candidacy Standing. Units: 3

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CSE 6994. Continuous Enrollment for Graduate Candidacy Standing. Units: 4

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CSE 6995. Continuous Enrollment for Graduate Candidacy Standing. Units: 5

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

CSE 6996. Continuous Enrollment for Graduate Candidacy Standing. Units: 6

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

Design (DES)

Courses

DES 1100. Digital Applications Basics. Units: 3

Fundamental use and introduction to the features and functions within current design software applications. Course taught from the perspective of using the application (software) to produce communication design including image-based communication solutions. Two hours of lecture/discussion and three hours of design studio activity per week. Materials fee required.

DES 1103. Social History of Design. Units: 3

An introduction to the social history of design movements. A critical survey of influential design forms, tendencies, and aesthetics from antiquity to the present from a broad range of cultures across the globe. This course will traverse and explore the development, influence, intertwining, and persistence of a range of important and noteworthy design styles, types, and systems to explore how they developed from their social context and the lasting effects they have had on societies around the world.

DES 1104. Design Theory in Context. Units: 3

An exploration of how design theories impact the practice of designers and how design practices develop theory. Students will study several influential design theories to understand their impact on the work of designers, deepening understanding of the social and political impact of key designers, design movements, and styles. These theories will be used as case studies to critically examine the work of notable designers in a range of design areas.

DES 1110. Fundamental Design Principles. Units: 3

Critical examination and theories on how to work with compositional space and interrelated basic principles, attributes, and elements of design. Students will learn the relationships between form and space, color fundamentals, image studies, and visual logic as it relates to design disciplines. Two hours of lecture/discussion and three hours of design studio activity per week. Materials fee required.

DES 1125. Design Thinking - Problem Solving & Critical Thinking in Visual Studies. Units: 3

Introduction to basic design and production techniques to transform initial concepts and ideas into various formats for concept presentation and user-experience testing. Principles of rapid prototyping, ideation processes, and materials determination will be discussed. Multiple approaches including 2D, 3D, motion, and video will be explored in an innovation lab environment and using the Design Thinking methodology. Two hours of discussion and three hours of activity. Materials fee required.

DES 2005. Typography and Layout. Units: 3

Semester Prerequisite: ART 1160, DES 1100, DES 1110

Introduction to the study of letterforms and fundamental typographic principles including an intensive practicum on the application of a typographic form to compositional strategies including grid formation and layout structures and an overview of the vocabulary of typography, type as image, and typography's relationship to message making and meaning. Emphasis on understanding current and historical typographic trends including the importance of technology in their development. Two hours of lecture/discussion and three hours of design studio activity per week. Materials fee required.

DES 2600. Digital 3D and Time-Based Media. Units: 3

Integration of digital 3D, immersive-video, 2D or 3D animation, virtual reality, and/or motion graphics for communication. Applied research, project planning, scripting, storyboarding, and storytelling techniques to create contemporary projects for the field. Appropriate and current industry-standard applications will be applied. Two hours of discussion and three hours of activity. Materials fee required.

DES 3001. Innovator's ToolBox - An Introduction to Creative Problem Solving and Design Thinking. Units: 3

Semester Prerequisite: Junior or senior standing

An introduction to problem-solving tools derived from the creative disciplines of design. The course's primary aim is to demonstrate to students that design and its methods of research, conceptualization, ideation, prototyping, production, and communication can be applied usefully to affect productive change in any circumstance. Satisfies GE C4/UD-3, G designation. Three hours of lecture/discussion per week.

DES 3020. Branding and Brand Identity Design. Units: 3

Semester Prerequisite: ART 1160, DES 1103, DES 1104, DES 1100, DES 1110, DES 1125, DES 2005, DES 2600

Application of design and aesthetic principles to the process of branding and brand identity design. The course will include the study of the brand mark and logo design, including historical trademark design, the study of symbols, and the relationship of design to the brands they serve. Students will conduct research, plan strategies, and apply brand identity elements to multiple touch points in physical and digital form. Two hours of discussion and three hours of activity. Materials fee required.

DES 3100. Junior Portfolio Review. Units: 0

Semester Prerequisite: DES 1100, DES 1110, DES 2005, and DES 2600

This course reviews students' design work to assess their design potential, abilities, and technical progress as they progress in their Design degree. Students will compose a design portfolio that will cover a wide variety of design topics with special focus on their design concentration. Graded Credit/No credit.

DES 3130. Junior Design Topics. Units: 3

Semester Prerequisite: DES 1100, DES 1110, DES 1125, DES 2005, DES 2600

Advanced exploration and application of contemporary topics in design. May be taken three times for up to nine units as topics change. Two hours of discussion and three hours of activity. Materials fee required.

DES 3205. Web and Application Design. Units: 3

Semester Prerequisite: DES 1100, DES 1110, DES 2005

Integration of research, analysis, and technical skills to design effective, compelling digital experiences across different mobile platforms, the web, and the Internet of Things. Appropriate and current industry-standard applications will be applied. Two hours of discussion and three hours of activity. Materials fee required.

DES 3300. Digital Illustration. Units: 3

Semester Prerequisite: DES 1100, ART 1160

This course teaches students how to translate design principles and illustrated imagery into a digital display format. Students will convert photo references and their own hand-drawn illustrations into stylized vector graphics. Through guided software demonstrations, pre-recorded tutorials, critiques, and image analyses, students will explore how branding OR narrative in their illustrations can enhance their portfolio. Students will be able to take their designs from ideation to conceptualization. The course will anticipate and reflect real world illustration projects. Students will initiate project proposals and be able to make variations to their work to satisfy different applications of their illustrations. Students will learn a variety of illustrative styles and techniques and become confident utilizing industry-standard illustration-based softwares. Two hours of discussion and three hours of activity per week. Materials fee required.

DES 3500. Business of Creativity. Units: 3

Semester Prerequisite: DES 1100, DES 1110, DES 1125

This course introduces the best practices and professional standards required to be successful in creative careers or in building a creative arts-related business. Topics include business processes and structures, intellectual property, ethical and legal issues, and the importance of fostering an entrepreneurial mindset as an overarching business philosophy. Two hours of discussion and three hours of activity. Materials fee required.

DES 3600. Digital Motion Graphics. Units: 3

Semester Prerequisite: DES 1100, DES 1110, DES 2005, DES 2405, DES 2600, DES 3300

Introduction to motion graphic design and composition, timing, storytelling, storyboarding and planning. Students design video effects and animated sequences, layer and composite video, add video effects to footage, and design motion graphics such as title sequences, lower thirds, and text animations. Appropriate and current industry-standard applications will be introduced and applied. Two hours of discussion and three hours of activity. Materials fee required.

DES 3615. Video Editing. Units: 3

Semester Prerequisite: ART 1160, DES 1100, DES 1110, DES 1125, DES 2600

Introduction to video post-production. Exploration of the theory and practice of various editing styles in order to gain a better understanding of how stories are constructed and how communication is achieved through editing. Through demonstrations and hands-on experience, students learn advanced editing techniques with appropriate and current industry-standard applications. Two hours of discussion and three hours of activity. Materials fee required.

DES 3650. Experimental Animation. Units: 3

Semester Prerequisite: DES 1100, DES 1110, and ART 1160

Students will create animations using a wide range of techniques and styles. Students will draw from tactile artmaking practices, such as collage, illustration, videography, and photography to create dynamic multimedia animations. Digital software skills such as photo editing, video assembly in post-production, digital illustration, animation, and rotoscoping will be learned. Students will understand keyframing, symbols, frame rate, instances, transitions, eases, tweening, and effects used within the industry-standard software platforms of Adobe Animate and After Effects. Students will be able to utilize the workflow between different Adobe software programs. Students will gain a deep understanding of animation concepts, including composition, timing, storytelling, storyboarding, and planning. Students will be able to set up illustrations for animation, learn how to layer and composite video and apply video effects to footage. Two hours of discussion and three hours of activity. Material fees required.

DES 3700. Infographic and Data Visualization Design. Units: 3

Semester Prerequisite: DES 1100, DES 1110, DES 1125, DES 2005

Exploration of data interpretation and data visualization and the differences between them. Students learn how to acquire data and structure it into graphic visualization formats using digital tools to create 2D, 3D, and 4D solutions for electronic, print, mobile and/or interactive purposes. Two hours of discussion and three hours of activity. Materials fee required.

DES 3715. User Interface and User Experience Design. Units: 3

Semester Prerequisite: ART 1160, DES 1100, DES 1110, DES 1125

Exploration of the principles and practices of user experience and user interface design concepts and processes utilizing user-research, personas, heuristic evaluation, information architecture, and usability assessment. Students will learn to model and test navigation design and information architecture for the purpose of optimal human-computer interaction. Two hours of discussion and three hours of activity. Materials fee required.

DES 3800. Advanced Modeling. Units: 3

Semester Prerequisite: ART 1160, DES 1100, DES 1110, DES 1125, DES 2600

This course advances student expertise in digital modeling with an emphasis on detailed topological refinement and the creation of complex, high-fidelity models and surfaces. Students will create models both from scratch and by refining geometry generated through scanning and photogrammetric sources. Instruction focuses on advanced topological modification techniques to sculpt intricate geometry, enhance surface flow, and optimize mesh structures for production contexts. Coursework emphasizes real-world workflows, professional constraints, and current industry practices in high-detail modeling. Two hours of discussion and three hours of hands-on activity. Materials fee required.

DES 3835. Character Design. Units: 3

Semester Prerequisite: ART 1160, DES 1100, DES 1110, DES 1125, DES 2600, DES 3800

Application of advanced 3D design principles to character design, props, and environments targeting specific parameters, needs, and audiences. Emphasis on development of technical and practical skills while applying traditional principles of animation; creating the illusion of thought, emotion, and personality; movement theory; and animation timing. Two hours of discussion and three hours of activity. Materials fee required.

DES 3840. 3D Rigging. Units: 3

Semester Prerequisite: ART 1160, DES 1100, DES 1110, DES 1125, DES 2600, DES 3800, DES 3835

This course explores the fundamentals of 3D rigging using Autodesk Maya. Students will learn how to build functional rigs for a wide range of 3D assets, from simple objects to articulated characters. Through hands-on exercises, the course covers joint creation, inverse and forward kinematics, constraints, controllers, and skin weighting. Emphasis will be placed on clean hierarchy, rig usability, and best practices for animation-ready assets. While Maya is the primary tool, supplementary 3D software may also be introduced to support broader rigging workflows. No prior rigging experience required. Two hours of lecture/discussion and three hours of design studio activity per week. Materials fee required.

DES 4015. Advertising and Promotion Design. Units: 3

Semester Prerequisite: DES 1100, DES 1103, DES 1104, DES 1110, DES 1125, DES 2005, DES 2600

Exploration of the history, theory, and processes involved in developing design solutions that relate to promotion and advertising. Students will engage in the design process that explores theories, strategies, and methodologies in promotion design such as the creation of marketing communication collateral, dimensional design projects, or the creation of digital design solutions. Emphasis on subject matter and processes involved in product creation that specifically address the needs of a creative brief, an intended audience, and a defined and intentional response. Two hours of discussion and three hours of activity. Materials fee required.

DES 4100. Design Center - Collaborative Project-Based Learning. Units: 3

Semester Prerequisite: ART 1160, DES 1100, DES 1103, DES 1104, DES 1110, DES 1125, DES 2005, DES 2600

Team-based engagement with real-world problem identification, analysis, and responsive design projects. Two hours of discussion and three hours of activity. Materials fee required.

DES 4130. Senior Design Topics. Units: 3

Semester Prerequisite: DES 1100, DES 1110, DES 1125, DES 2005, DES 2600

Advanced exploration and application of contemporary topics in design. May be taken three times for up to nine units. Individual topics cannot be repeated. Two hours of discussion and three hours of activity. Materials fee required.

DES 4195. Design Portfolio. Units: 3

Semester Prerequisite: DES 4100

Semester Corequisite: DES 4130

Design capstone course to prepare students for post-graduation. Survey of current state of the design industry and materials preparations to prepare students for post-graduation goals. Topics include portfolio preparation, resumes, professional promotion, and/or websites. Materials fee required. Satisfies WI designation.

DES 4300. Application Programming for Designers. Units: 3

Semester Prerequisite: ART 1160, DES 1100, DES 1110, DES 2005, DES 3205

Introduction to mobile app development. Script programming, application development, syntax, object-oriented principles, memory management, and functional concepts and will use storyboards and wireframes to design a user interface for apps with multiple views. Formerly DES 2405. Two hours of discussion and three hours of activity. Materials fee required.

DES 4600. Advanced 2D Animation and Motion Graphics. Units: 3

Semester Prerequisite: ART 1160, DES 1100, DES 1110, DES 1125, DES 2005, DES 2600, DES 3600

Expands upon topics of composition, timing, storytelling, storyboarding, and planning begun in DES 3600 Digital Motion Graphics. More attention will be placed on special effects, creative transitions, 2D rigging and warping, and principles of animation. Industry-standard 2D animation softwares will be utilized. Two hours of discussion and three hours of activity. Materials fee required.

DES 4625. Storyboarding. Units: 3

Semester Prerequisite: DES 1100, DES 1110, DES 1125, DES 2005, and DES 2600

Research, concept development, planning, and prototyping for design projects across applications, media, and platforms. Two hours of discussion and three hours of activity. Materials fee required.

DES 4800. Physical Product Design. Units: 3

Semester Prerequisite: ART 1160, DES 1100, DES 1110, DES 1125, DES 2005, DES 2600

Introduction to design techniques and capabilities of solid modeling using hands-on fabrication techniques and mechanical design software. A broad introduction to physical product development and 3D Computer-Aided Design (CAD) techniques with a focus on object and product applications, part drawings, assembly modeling, basic motion, and stress analysis. Projects include part modeling using sketches, constraints, and dimensions. Two hours of discussion and three hours of activity. Materials fee required.

DES 4815. Interaction Design Futures. Units: 3

Semester Prerequisite: ART 1160, DES 1100, DES 1110, DES 1125

This course explores the evolving landscape of interactive design through the lens of emerging technologies. Students will investigate how cutting-edge tools, such as voice interfaces, AI-driven systems, and spatial computing, are reshaping human experiences. Emphasis is placed on experimentation, speculative prototyping, and critical reflection on the societal impact of these technologies. Through hands-on projects and future-casting exercises, students will learn to design beyond the screen, imagining and shaping the next generation of user interactions. Two hours of lecture/discussion and three hours of design studio activity per week. Materials fee required.

DES 4825. 3D Animation. Units: 3

Semester Prerequisite: ART 1160, DES 1100, DES 1110, DES 1125, DES 2600, DES 3800

Introduction to theories, techniques, concepts, and professional practices of 3D computer animation from initial concept to final production. Application of traditional principles of animation to the 3D digital environment. Topics include rigging, motion capture, modeling, simulation, character/object animation, texturing, and rendering. Two hours of discussion and three hours of activity. Materials fee required.

DES 4855. Real-Time Rendering. Units: 3

Semester Prerequisite: ART 1160, DES 1100, DES 1110, DES 1125, DES 2600

This course introduces students to the core principles and practices of real-time rendering using Unreal Engine. The course explores how to achieve high-quality visual output for characters and environments in real time. Topics include lighting systems, material creation, level optimization, post-processing, and cinematic rendering techniques. While Unreal Engine is the primary platform, exploring additional 3D software may enhance interoperability and pipeline efficiency. Two hours of lecture/discussion and three hours of design studio activity per week. Materials fee required.

DES 5100. Design Capstone Thesis: Research. Units: 6

Semester Prerequisite: DES 3130, DES 3500 and DES 3715

Research for the culminating project demonstrating professional competence in area of concentration. Requires presentation and defense of the student's proposed project. Course focuses on research concerning current issues in design fields. Students will develop an individual design approach, process, and methodology for the application of design solutions for the thesis project. Materials fee required. Satisfies WI designation.

DES 5115. Design Capstone Thesis: Project. Units: 6

Semester Prerequisite: DES 5100 or department consent

Culminating project demonstrating professional competence in area of concentration. Requires presentation and defense of the student's project. Students will complete a culminating project concerning current issues in design fields. Satisfies WI designation. Materials fee required.

DES 5590. Design Internship. Units: 3

Semester Prerequisite: Must be of junior or senior standing or by consent of instructor

Supervised work that provides professional design experience. May be completed five times for a total of 15 units. Graded Credit/No Credit.

DES 5953. Independent Study in Design. Units: 3

Academic or community-based research in design or design studies conducted under the direction of a faculty member. Enrollment is dependent on the consent of the instructor and departmental approval of a written proposal of a project submitted by the student in advance of the course. May be taken for credit for up to 9 units. Department consent required.

Educational Administration (EADM)

Courses

EADM 5700. Introduction to Community & Family Engagement. Units: 3

This course helps educators and school leaders build strategies to improve teamwork and strengthen family engagement. Participants will learn about the certification process, effective team practices, and tools for community involvement. Participants will actively explore ways to engage families in the school community. Collaborative discussions and reflective activities will help participants identify and address challenges specific to their context, fostering a supportive, problem-solving culture in their schools. Graded credit/no credit.

EADM 5701. Community & Family Engagement Frameworks. Units: 3

In this course, participants will explore multiple frameworks in-depth, comparing them to current practices at their schools and identifying areas for improvement. Through this course, students will assess school alignment with the framework, examine types of Parent Involvement, and select a targeted strategy to enhance family and community engagement in line with school goals. This course will help educational leaders develop practical insights to build stronger school-community partnerships. Participants will deepen their understanding of Community and Parent engagement frameworks and analyze key components. Graded credit/no credit.

EADM 5702. Community & Family Engagement Plans. Units: 3

In this course, participants will put Community and Family Engagement frameworks into practice by identifying evidence from a school site and developing a plan of action. They will also analyze key components of community schools, conduct a self-assessment, and review available resources. They will develop an implementation plan that can be monitored for success. Graded credit/no credit.

EADM 6601. Educational Leadership and Ethics. Units: 3

Semester Prerequisite: Admission to Educational Administration Program or consent of program coordinator. Quarter Prerequisite: Admission to Educational Administration Program or consent of program coordinator
Introduction to administration including leadership, vision, and ethics. Explores the theory and practice of educational leadership in K-12 or community college/higher education. The leadership focus includes organizational, change, transformational, and culturally responsive educational leadership. Must be taken during the first quarter of the program. Formerly offered as EADM 601.

EADM 6602. Research Methods in Educational Administration. Units: 3

Semester Prerequisite: Students has completed or is enrolled in EADM 6601; Student is enrolled in Educational Administration Master's Program; Student must enroll in EADM 6602 first, then EADM 6603 in the subsequent semester; Or coordinator permission. Quarter Prerequisite: EADM 601 or consent of program coordinator
Introduction to qualitative, quantitative and action research for school administrators using APA guidelines. Students will complete a proposal and research paper. Formerly offered as EADM 602.

EADM 6607. Culture, Equity, and Communication in Diverse Society. Units: 3

Semester Prerequisite: Admission to the Educational Administration Program or consent of program coordinator. Quarter Prerequisite: Admission to the Educational Administration Program or consent of the program coordinator
Prerequisites: Admission to the Educational Administration Program or consent of program coordinator. Formerly offered as EADM 607
Focuses on theories and models for ethical decision-making, communication of policies to promote equity in schools and other educational institutions, legal and cultural context for social justice, equity analysis, school climate, and school reform to support the diverse needs of all stakeholders.

EADM 6610. Educational Supervision and Teacher Development. Units: 3

Semester Prerequisite: Admission to the Educational Administration Program or consent of the program coordinator. Quarter Prerequisite: Admission to the Educational Administration Program or consent of the program coordinator
Presents theories, models, and practices for educational supervision including developmental and clinical supervision, cognitive coaching techniques, communicating policies for improving student achievement, and promoting the school. This class will include a practicum for the Administrative Services Preliminary Credential. Formerly known as EADM 610.

EADM 6613. Organizational Management and Human Resources. Units: 3

Semester Prerequisite: EADM 6601, EADM 6607, or consent of program coordinator. Quarter Prerequisite: EADM 601, EADM 607, or consent of program coordinator
Legal and ethical procedures in human resources at all levels of employment to ensure effectiveness of organizational processes to meet organizational goals and equity for students. Analysis of laws and policy development in relationship to school districts and/or institutes of higher education, negotiations, collective bargaining, and career advancement. Formerly offered as EADM 613.

EADM 6619. Policy, Governance and Legal Aspects of Education. Units: 3

Semester Prerequisite: EADM 6601, EADM 6607, EADM 6610 or consent of program coordinator. Quarter Prerequisite: EADM 601 or consent of program coordinator
Examines how laws and court decisions influence public education. Analyzes governance and policy systems to understand the relationships of schools, districts, counties, and State of California and how to operate within the legal parameters. Influences of political, social, economic, legal and cultural issues on schools and districts will be addressed. Formerly offered as EADM 619.

EADM 6620. Fieldwork in Educational Administration I. Units: 3

Semester Prerequisite: EADM 6601, EADM 6610, or consent of program coordinator. Quarter Prerequisite: EADM 601, EADM 607, EADM 610, EADM 620 or consent of program coordinator

Administrative fieldwork at the elementary and the secondary school level, coordinated with the district. Consists of a minimum of 60 hours of administrative fieldwork experience at the elementary and repeated at the secondary level for 3 units and 60 hours at each level for a total of 6units and 120 hours. Formerly offered as 621A.

EADM 6621. Fieldwork in Educational Administration II. Units: 3

Semester Prerequisite: EADM 6601, EADM 6610, EADM 6620 or consent of program coordinator. Quarter Prerequisite: EADM 601, EADM 610, EADM 607, EADM 620, EADM 621A or consent of program coordinator

Administrative fieldwork at the elementary and the secondary school level, coordinated with the district. Consists of a minimum of 60 hours of administrative fieldwork experience at the elementary and repeated at the secondary level for 3 units and 60 hours at each level for a total of 6 units and 120 hours. Formerly offered as EADM 621B.

EADM 6622. Curriculum, Programs, and Assessment. Units: 4

Semester Prerequisite: EADM 6601 and EADM 6610 or consent of program coordinator. Quarter Prerequisite: EADM 601, EADM 607, EADM 610, EADM 620 or consent of program coordinator

Examines current curriculum and content standards, assessment of student achievement, data analysis, instructional decision-making school plans, and use of technology. Various programs including special education, English Learner, and STEM among others are explored. This course includes a practicum for the Administrative Services Preliminary Credential. Three hours seminar and two hours practicum.Formerly offered as EADM 622.

EADM 6625. Organizational Management and Fiscal Resources. Units: 3

Quarter Prerequisite: EADM 601 or consent of program coordinator

Fundamentals of fiscal resource management to provide a safe, clean, and positive learning environment for staff and students. Covers California School Finance Programs; fiscal relationship to county, state and federal agencies; school budget procedures; LCAP and LCFF; school accounting; financial management of categorical and special education funds; fiscal laws, and the planning, financing, and management of school facilities. This course also introduces topics related to the revenue and expenditure of funds for community college/higher education. Topics include revenue, budgets, cost analysis, facilities, and other topics related to revenue and fiscal resources management including laws, politics, and policies. Formerly offered as EADM 625.

EADM 6630. Internship Fieldwork in Educational Administration I. Units: 3

Semester Prerequisite: Admitted to the Educational Administration Program, currently an administrator, enrolled in Intern Option Preliminary Administrative Credential Program, Applied for the Administrative Services Intern Credential through CTC, and consent of program coordinator. Quarter Prerequisite: Admitted to the Educational Administration Program, currently an administrator, enrolled in Intern Option Preliminary Administrative Credential Program, Applied for the Administrative Services Intern Credential through CTC, and consent of program coordinator

Administrative field experiences for students enrolled in the Preliminary Administrative Services Credential Program, Internship Option. Students are currently in administrative positions. Formerly offered as EADM 630A.

EADM 6631. Internship Fieldwork in Educational Administration II. Units: 3

Semester Prerequisite: Admitted to the Educational Administration Program, currently an administrator, enrolled in Intern Option Preliminary Administrative Credential Program, Applied for the Administrative Services Intern Credential through CTC, and consent of program coordinator. Quarter Prerequisite: Admitted to the Educational Administration Program, currently an administrator, enrolled in Intern Option Preliminary Administrative Credential Program, Applied for the Administrative Services Intern Credential through CTC, and consent of program coordinator

Administrative field experiences for students enrolled in the Preliminary Administrative Services Credential Program, Internship Option. Students are currently in administrative positions. Formerly offered as EADM 630B.

EADM 6632. History and Philosophy of Community College/Higher Education. Units: 3

Semester Prerequisite: Admission to the Master's in Educational Administration Program or consent of program coordinator. Quarter Prerequisite: Admission to the Master's in Educational Administration Program or consent of program coordinator

This course is designed to provide students with an historical, socio-political, and philosophical context of higher education. Students will be introduced to philosophical views that have impacted the historical events leading to social justice issues in current higher educational systems.

EADM 6633. Policy and Governance in Community College/Higher Education. Units: 3

Semester Prerequisite: Admission to the Master in Educational Administration Program, completion of EADM 6601, or consent of program coordinator. Quarter Prerequisite: Admission to the Master in Educational Administration Program, completion of EADM 601, or consent of program coordinator

This course introduces the policy development process, along with purposes and development of missions, strategic planning, and governance structures. Students will learn how to write and analyze policies based upon current issues and trends in community colleges/higher education.

EADM 6634. Program Assessment and Evaluation in Community College/Higher Education. Units: 4

Quarter Prerequisite: Admission to the Master in Educational Administration Program, completion of EADM 601, or consent of program coordinator

This course introduces curriculum and program development, assessment, and evaluation in community colleges/higher education. Topics include: accreditation, accountability, and assessment. The course includes a practicum. Three hours seminar and one hour practicum.

EADM 6635. Finance in Community College/ Higher Education. Units: 3

Semester Prerequisite: Admission to the Master in Educational Administration Program, completion of EADM 6601, or consent of program coordinator. Quarter Prerequisite: Admission to the Master in Educational Administration Program, completion of EADM 601, or consent of program coordinator

This course introduces topics related to the revenue and expenditure of funds for community college/higher education. Topics include revenue, budgets, cost analysis, facilities, and other topics related to revenue and fiscal resources management including laws, politics, and policies.

EADM 6636. Special Topics in Higher Education. Units: 3

Semester Prerequisite: Admitted to the Masters in Educational Administration Program, completion of EADM 6601 or consent of program coordinator. Quarter Prerequisite: Admitted to the Master in Educational Administration Program, completion of EADM 601 or consent of program coordinator

Various topics of concern to educators in community college and higher education will be introduced including college student development and communication, student services, student affairs, and technology among others.

EADM 6637. Community College/Higher Education Field Project. Units: 3

Semester Prerequisite: Completion of EADM 6601 and EADM 6607 and permission of program coordinator

Students will undertake a field project in an area of community college/ higher education leadership. Project must meet criteria and be under the direction of a course instructor and institution of higher education supervisor. Culmination will be presentation to class.

EADM 6640. California Administrator Performance Assessment (CalAPA) Support Seminar. Units: 3

Semester Prerequisite: Admission to the Preliminary Administrative Credential Services Credential or Preliminary Administrative Services Intern Credential Programs. Students should have completed or currently be enrolled in EADM 6601, 6610 or 6622 or a course substitute approved by program coordinator prior to enrolling in the course

Course focuses on preparing candidates in the Preliminary Administrative Services Credential Program (PASC) or Preliminary Administrative Services Intern Credential Program to complete any of the CalAPA assessments 1, 2, and/or 3. These assessments are required by the Commission on Teacher Credentialing (CCTC) for the PASC. Graded credit/no credit. Can be taken a maximum of three times for a total of nine units.

EADM 6681. Vision and Student Achievement. Units: 2

Development, articulation, and implementation of a shared vision among diverse stakeholders to address achievement of all student groups. Formerly offered as EADM 681.

EADM 6682. Collaborative Culture of Teaching and Learning. Units: 2

Semester Prerequisite: Admission to the Administrative Services Professional Credential Program, have Preliminary Administrative Services Credential and hold Local Educational Agency (LEA) administrative position and EADM 6681, EADM 6685 or consent of program coordinator

Semester Corequisite: EADM 6686

Development of ethical leadership, decision-making and action in providing a culture of teaching and learning focused on state content standards, teacher professional standards, and ongoing teacher development. Formerly offered as EADM 682.

EADM 6683. Resource Management of the Learning Institution. Units: 2

Semester Prerequisite: Admission to the Administrative Services Professional Credential program; Have Preliminary Administrative Services Credential and hold administrative position in Local Educational Agency (LEA); EADM 6681, EADM 6682, EADM 6685, EADM 6686 or consent of program coordinator

Semester Corequisite: EADM 6687 or consent of program coordinator

Establishment of a safe, respectful learning environment with established structures, policies, and procedures and alignment of fiscal and human resources to focus on meeting the intellectual, linguistic, cultural, social-emotion, and physical needs of each learner. Formerly offered as EADM 683.

EADM 6684. Political, Legal, Cultural Context in Education. Units: 2

Semester Prerequisite: Admission to the Administrative Services Professional Credential program, have a Preliminary Administrative Services Credential and hold an administrative position in a Local Educational Agency (LEA) and EADM 6681, EADM 6682, EADM 6683, EADM 6685, EADM 6686, EADM 6687 or consent of program coordinator

Semester Corequisite: EADM 6688

Focus on the role of educational leaders in the building of community relationships, effective communication, and influencing policies for equity, social justice, and ethics for the benefit of the learners. Formerly offered as EADM 684.

EADM 6685. Coaching and Assessment Practicum I. Units: 2

Semester Prerequisite: Admission to the Administrative Services Professional Credential program, Have Preliminary Administrative Services Credential and administrative position in a Local Educational Agency (LEA)

Semester Corequisite: EADM 6681

Provide the educational leader an individual assessment and support plan. Student will work with a certified coach on development of their administrative skills based on the California Professional Standards for Educational Leaders (CPSEL). First of four courses in a sequence. Formerly offered as EADM 685.

EADM 6686. Coaching and Assessment Practicum II. Units: 2

Semester Prerequisite: Admission to the Administrative Services Professional Credential program, have Preliminary Administrative Services Credential with administrative position in Local Educational Agency (LEA) and EADM 6681, EADM 6685 or consent of program coordinator
Semester Corequisite: EADM 6682
Provide the educational leaders an individual assessment and support plan. Student will work with a certified coach on development of their administrative skills based on the California Professional Standards for Educational Leaders (CPSEL). Second of four courses in a sequence. Formerly offered as EADM 686.

EADM 6687. Coaching and Assessment Practicum III. Units: 2

Semester Prerequisite: Admission to the Administrative Services Professional Credential program; Have a Preliminary Administrative Services Credential with an administrative position in a Local Educational Agency (LEA); EADM 6681, EADM 6682, EADM 6685, EADM 6686 or consent of instructor
Semester Corequisite: EADM 6683
Provide the educational leader an individual assessment and support plan. Student with will work a certified coach on development of their administrative skills based on the California Professional Standards for Educational Leaders (CPSEL). Third of four courses in a sequence.

EADM 6688. Coaching and Assessment Practicum IV. Units: 2

Semester Prerequisite: Admission to the Administrative Services Professional Credential program, have a Preliminary Administrative Services Credential with an administrative position in a Local Educational Agency (LEA) and EADM 6681, EADM 6682, EADM 6683, EADM 6685, EADM 6686, EADM 6687 or consent of program coordinator
Semester Corequisite: EADM 6684
Provide the educational leader an individual assessment and support plan. Student will work with a certified coach on development of their administrative skills based on the California Professional Standards for Educational Leaders (CPSEL). Fourth of four courses in a sequence.

EADM 6692. Comprehensive Evaluation in Educational Administration. Units: 3

Semester Prerequisite: Completion of courses for the program, advancement to candidacy and permission of program coordinator. Quarter Prerequisite: Completion of courses for the program, Advancement to candidacy and permission of program coordinator
Review and preparation for the written comprehensive examination. Case studies will be presented. Formerly offered as EADM 692.

EADM 6973. Masters Thesis in Educational Administration. Units: 3

Semester Prerequisite: Advancement to candidacy, completion of program courses, and permission of program coordinator. Quarter Prerequisite: Advancement to candidacy, completion of program courses, and permission of program coordinator
Independent graduate research in field of Educational Administration conducted under the direction of two program faculty members. Formerly offered as EADM 699.

EADM 6980. Comprehensive Examination in Education Administration. Units: 0

Semester Prerequisite: Advancement to candidacy, completion of all required courses, Approval of the program coordinator and in good academic standing. Quarter Prerequisite: Advancement to candidacy, completion of all required courses, Approval of department, and in good academic standing
An assessment of student's ability to integrate the knowledge in the area of educational administration, show critical and independent thinking, and mastery of the subject matter. Graded credit/no credit. Formerly offered as EADM 999.

Economics (ECON)

Courses

ECON 2000. The Economy: Problems and Perspectives. Units: 3

Why have the rich become richer? Do immigrants take or create jobs? What is causing climate change, and what can be done about it? What determines how fast an economy grows? Is economic growth consistent with sustainability? What is the chance that children will do financially better (or worse) than their parents? Why are we subjected to recessions, housing bubbles/crashes, and financial crises? Can such harmful events be stopped? Will robots take all our jobs? This course will provide students with the tools and perspectives that will help them answer questions such as the above. Satisfies GE D3/4, G designation, Diversity and Social Justice, Environmental Sustainability pathways.

ECON 2201. Principles of Microeconomics. Units: 3

Introduction to markets and market economies. Investigation of demand, supply, production, the determination of prices, the allocation of resources, and the distribution of income. Business behavior in different market environments. Policies designed to alter market outcomes. Formerly ECON 200.

ECON 2202. Principles of Macroeconomics. Units: 3

Investigation of the operation of national economies, alone and as part of the global economy. Determinants of the rate of economic growth across countries and through time. Determinants of unemployment, inflation, and national output. Causes of stability and instability in the macroeconomy. The operation of government fiscal policy and monetary policy is intended to promote growth and macroeconomic stability. Trade and financial flows among countries. Satisfies GE D3/4, G designation, Global Connections pathway.

ECON 3100. Intermediate Microeconomics. Units: 3

Semester Prerequisite: ECON 2000 or ECON 2201 and ECON 2202; and one of the following: MATH 1301, 1303, 1401, 1403, 1601, 1603 or 2210
Detailed analysis of economic behavior of individuals and business firms. Investigation of conflict, competition, and cooperation. Role of institutions and policies in altering market outcomes. Formerly ECON 302, ECON 4100.

ECON 3101. Political Economy of Southern California. Units: 3

Examination of the economic origins of political, social, and cultural life in Southern California, 1860-present. National and global influences on Southern California, such as the role of immigration and global trade, will be explored. Contending perspectives about the development of the region will be analyzed. Topics might include water rights, property law, the real estate market, labor relations, and labor history, as well as their impact on modern social, political, and cultural movements. Satisfies GE D4/UD-4.

ECON 3103. Environmental Economics. Units: 3

Application of economic theory to environmental problems and issues using a political economy framework. Topics might include regulatory and market approaches to pollution and natural resource depletion; cost-benefit analysis and its economic and political foundations; and case studies of specific environmental problems such as locally unwanted land use, environmental racism, deforestation, and global warming. Formerly ECON 360.

ECON 3105. Political Economy. Units: 3

Critical analysis of capitalist economies. Topics might include class and power, the labor process, technology, theories of the state/government, and globalization. Formerly ECON 445.

ECON 3109. Political Economy of Women. Units: 3

Introduction to feminist economics and feminist theory, emphasizing the diversity of feminist approaches. Topics might include primitive accumulation and origins of sexual division of labor, household economics and care work, women's labor supply, gender wage gap and segregation in the labor markets, gendered impacts of economic crises, and welfare policy. Formerly ECON 333.

ECON 3125. Economic History of the United States. Units: 3

Economic history of the United States from the founding of the colonies to the present. Formerly ECON 421.

ECON 3199. Economics in the Elementary and Middle School. Units: 3

Introduces liberal studies students to economics in the California History/Social Science Standards. Students learn to integrate economic principles and theories with the other social sciences. May not be counted toward fulfillment of requirements of majors or minors offered by the Economics Department. Formerly ECON 311.

ECON 3200. Intermediate Macroeconomics. Units: 3

Semester Prerequisite: ECON 2000 or ECON 2201 and ECON 2202; and one of the following: MATH 1301, 1303, 1401, 1403, 1601, 1603 or 2210.
Quarter Prerequisite: ECON 200, ECON 202, and one additional upper-division economics course; MATH 110, 120, 192, or 211; or consent of instructor

Determinants of output and prices in national economies. Sources of stability and instability in the economy. Determinants of the rate of economic growth. Government policies designed to promote full employment, price stability, and economic growth. Formerly ECON 300, ECON 4200.

ECON 3400. Money, Banking, and Financial Markets. Units: 3

Quarter Prerequisite: ECON 202 and one of the following: MATH 110, 120, 192, or 211

The nature and functions of money. Banks and their role in the money-creation process. Economic analysis of the financial system. Central banking, including the Federal Reserve System, and the conduct of monetary policy. Introduction to debates within monetary theory. Formerly ECON 410.

ECON 3500. Tools of Economic Analysis. Units: 3

Semester Prerequisite: ECON 2000 or ECON 2201 and ECON 2202; MATH 1201 or ADMN 2100 or MATH 2265; and one of the following: MATH 1301, 1303, 1401, 1403, 1601, 1603 or 2210

Using software and basic economic models to investigate and analyze economic phenomena. Formerly ECON 335.

ECON 3700. History of Economic Thought. Units: 3

Semester Prerequisite: ECON 2000 or ECON 2201 and ECON 2202; students may also take the course with consent of instructor

Historical development of economic theory and associated analytical tools. Consideration of the intellectual and social forces that shaped economics. Formerly ECON 500, ECON 4700.

ECON 3720. Behavioral Economics. Units: 3

Quarter Prerequisite: ECON 200 or PSYC 311

Blends the theoretical insights of psychology and economics to develop a fuller understanding of behavior in both economic and non-economic contexts. Use of a variety of methodologies (such as interviews, surveys, experiments, and formal modeling) to investigate the decision-making processes of individuals and groups along with the interactions between and among individuals and groups. Formerly a topic under Econ 390.

ECON 3740. Economics of Climate Change. Units: 3

Quarter Prerequisite: ECON 200 and ECON 202

Economic causes and consequences of climate change. Consideration of the unusual characteristics of human-caused climate change including a combination of global impacts, true uncertainty, large and discontinuous effects, and irreversibility. Policies proposed to mitigate climate change and to facilitate adaptation to climate change. Formerly ECON 365.

ECON 3750. Origins of Political Economy. Units: 3

Quarter Prerequisite: ECON 200 and ECON 202, Students may also take the course with consent of instructor

Economic theories of Karl Marx and the intellectual, political, and economic context in which they developed. Formerly ECON 443.

ECON 3780. Multinational Corporations. Units: 3

Quarter Prerequisite: ECON 200 and ECON 202

Multinational corporations and the international economic environment in which they operate. Topics include the international monetary system, balance of payments, international capital movements, foreign direct investment, technology transfer, and conflicts between multinational corporations and host countries. Formerly ECON 435.

ECON 3790. Post-Keynesian Economics. Units: 3

Quarter Prerequisite: ECON 200 and ECON 202
Macroeconomic theory emphasizing fundamental uncertainty, financial instability, possible equilibriums generating persistent unemployment, and the central role of expectations and aggregate demand (even in the long-run).

ECON 3800. Quantitative Methods in Economics. Units: 3

Semester Prerequisite: One of the following: MATH 1301, 1303, 1401, 1403, 1601, 1603 or 2210
Application of mathematical tools and concepts in formulating and solving economic problems. Formerly ECON 480, ECON 4400.

ECON 3801. Selected Topics in Economics. Units: 3

Examination of selected topics of current interest in economics. May be repeated for credit as topics change. Formerly ECON 390.

ECON 3900. Writing in Economics. Units: 3

Semester Prerequisite: Majoring in either Economics (all concentrations) or Political Economy. Plus, completion of two upper-division economics courses
Development of skills leading to effective writing in different contexts such as academia and the workplace. Among other things, students will use their economics training to write both on contemporary topics and on the nature of economics as a discipline. Satisfies WI designation.

ECON 4230. Economic Development. Units: 3

Semester Prerequisite: ECON 2000 or ECON 2202; ECON 3200
Overview of the major theoretical and empirical approaches to economic development. Consideration of fundamental characteristics of developing countries such as poverty and inequality along with the processes of agricultural transformation and population growth. Causes and consequences of trade involving developing countries. Industrial and finance policies. Consideration of globalization, the environment, and issues related to gender in developing countries. Formerly ECON 455, ECON 3730.

ECON 4300. Econometrics. Units: 3

Quarter Prerequisite: ECON 200, ECON 202, and one additional upper-division economics course; ADMN 210 or MATH 262; ,MATH 110, 120, 192, or 211
Various statistical methods of testing economic hypotheses. Focus on understanding and using linear regression models. Formerly ECON 490.

ECON 4412. Firms and Markets. Units: 3

Semester Prerequisite: ECON 2000 or ECON 2201; and one of the following: MATH 1301, 1303, 1401, 1403, 1601, 1603 or 2210; and ECON 3100. Quarter Prerequisite: ECON 200 and one of the following: MATH 110, 120, 192, or 211
Historical evolution of business firms and markets. Recent developments in business behavior and the organization of markets. Formerly ECON 3312.

ECON 4414. Public Economics. Units: 3

Semester Prerequisite: ECON 2000 or ECON 2201; and one of the following: MATH 1301, 1303, 1401, 1403, 1601, 1603 or 2210
Analysis of selected government programs and of the role of the government in the economy. Among the topics possibly considered are social welfare programs (such as Social Security and Temporary Assistance for Needy Families), budget deficits and the debt, the tax system, the minimum wage, government healthcare insurance programs, and environmental policies. Formerly ECON 475, ECON 3314.

ECON 4416. Labor Economics. Units: 3

Semester Prerequisite: ECON 2000 or ECON 2201; and one of the following: MATH 1301, 1303, 1401, 1403, 1601, 1603 or 2210; and ECON 3100
Micro- and macroeconomic aspects of labor markets including the workings of labor markets in competitive and noncompetitive markets, structure and causes of unemployment, incomes policies, and selected institutional topics including the economics of U.S. labor movements. Formerly ECON 460, ECON 3316.

ECON 4418. International Economics. Units: 3

Semester Prerequisite: ECON 2000 or ECON 2201; and one of the following: MATH 1301, 1303, 1401, 1403, 1601, 1603 or 2210
Theories of the causes and effects of trade between nations. Study of government policies that alter the pattern of trade between nations. Formerly ECON 430, ECON 3318.

ECON 4525. Mixed Methods Research. Units: 3

Quarter Prerequisite: two upper-division economics courses
Using multiple research methods-such as surveys and interviews-to study economic phenomena.

ECON 4550. Advanced Tools of Economic Analysis. Units: 3

Semester Prerequisite: ECON 3500. Prerequisite: ECON 335
Using a variety of analytical and statistical tools to gain insight into the economy. Focus on answering policy-related, real-world questions.

ECON 4815. Global Inequality and Growth. Units: 3

Quarter Prerequisite: Two upper-division economics courses
Study of how and why income and wealth evolve in modern economies. Topics might include rising inequality, billionaires and capitalism, historical concentration of property ownership, economics of superstars and policies that affect these processes. Formerly a topic under ECON 390.

ECON 4900. Seminar in Economics. Units: 3

Semester Prerequisite: ECON 3400 and one of ECON 3312, 3314, 3316, or 3318. Quarter Prerequisite: Two upper-division economics courses
Intensive study of some economic issue or theory. May be repeated for credit as subject matter changes. Formerly ECON 590.

ECON 5510. Economics in the Secondary Classroom. Units: 3

Economics method of analysis as it applies to 9th through 12th grade California History/Social Science Standards. May not be counted toward fulfillment of requirements of majors or minors offered by the Economics Department. Formerly Econ 510.

ECON 5601. Service-Learning in Political Economy. Unit: 1

Service experience in the community that makes use of the skills, knowledge, and understandings gained in economics and/or political economy. This course will reinforce a student's understanding of social responsibility and commitment to the community. Graded credit/no credit. Consent of the Department Chair is required to register. May be repeated for credit a maximum of two times.

ECON 5751. Internship in Economics. Unit: 1

Semester Prerequisite: A completed Economics Department internship form must be submitted, and approved by the Department Chair, in advance of the semester in which the course is to be taken, Open only to majors within the Economics Department. Quarter Prerequisite: A completed Economics Department internship form must be submitted, and approved by the Department Chair, in advance of the semester in which the course is to be taken, Open only to majors within the Economics Department

Supervised work in a public or private organization emphasizing practical applications of economic concepts and relationships. May be repeated but only 3 units of internship courses may be counted toward any major offered by the Economics Department. Graded credit/no credit. Formerly Econ 575.

ECON 5752. Internship in Economics. Units: 2

Semester Prerequisite: A completed Economics Department internship form must be submitted, and approved by the Department Chair, in advance of the semester in which the course is to be taken, Open only to majors within the Economics Department. Quarter Prerequisite: A completed Economics Department internship form must be submitted, and approved by the Department Chair, in advance of the semester in which the course is to be taken, Open only to majors within the Economics Department

Supervised work in a public or private organization emphasizing practical applications of economic concepts and relationships. May be repeated but only 3 units of internship courses may be counted toward any major offered by the Economics Department. Graded credit/no credit. Formerly Econ 575.

ECON 5753. Internship in Economics. Units: 3

Semester Prerequisite: A completed Economics Department internship form must be submitted, and approved by the Department Chair, in advance of the semester in which the course is to be taken, Open only to majors within the Economics Department. Quarter Prerequisite: A completed Economics Department internship form must be submitted, and approved by the Department Chair, in advance of the semester in which the course is to be taken, Open only to majors within the Economics Department

Supervised work in a public or private organization emphasizing practical applications of economic concepts and relationships. May be repeated but only 3 units of internship courses may be counted toward any major offered by the Economics Department. Graded credit/no credit. Formerly Econ 575.

ECON 5951. Independent Study. Unit: 1

Semester Prerequisite: A minimum overall grade point average of 3, consent of instructor, and approval by the Department Chair of a completed Department independent study form filed in advance of the semester in which the course is to be taken. Quarter Prerequisite: A minimum overall grade point average of 3, consent of instructor, and approval by the Department Chair of a completed Department independent study form filed in advance of the semester in which the course is to be taken

Investigation of special topics not covered by the Department's curricular offerings. A total of six units of independent study may be applied toward majors offered by the Economics Department. Formerly ECON 595A.

ECON 5952. Independent Study. Units: 2

Semester Prerequisite: A minimum overall grade point average of 3, consent of instructor, and approval by the Department Chair of a completed Department independent study form filed in advance of the semester in which the course is to be taken. Quarter Prerequisite: A minimum overall grade point average of 3, consent of instructor, and approval by the Department Chair of a completed Department independent study form filed in advance of the semester in which the course is to be taken

Investigation of special topics not covered by the Department's curricular offerings. A total of six units of independent study may be applied toward majors offered by the Economics Department. Formerly ECON 595B.

ECON 5953. Independent Study. Units: 3

Semester Prerequisite: A minimum overall grade point average of 3, consent of instructor, and approval by the Department Chair of a completed Department independent study form filed in advance of the semester in which the course is to be taken. Quarter Prerequisite: A minimum overall grade point average of 3, consent of instructor, and approval by the Department Chair of a completed Department independent study form filed in advance of the semester in which the course is to be taken

Investigation of special topics not covered by the Department's curricular offerings. A total of six units of independent study may be applied toward majors offered by the Economics Department. Formerly ECON 595C.

ECON 5999. Senior Honors Project. Units: 3

Semester Prerequisite: Senior standing, minimum grade point average of 3.5 in economics courses, consent of instructor, and approval by the Department Chair of a senior honors project form submitted in advance of the semester in which the course is to be taken. Quarter Prerequisite: Senior standing, minimum grade point average of 3.5 in economics courses, consent of instructor, and approval by the Department Chair of a senior honors project form submitted in advance of the semester in which the course is to be taken

Original research in economics, culminating in a significant paper receiving approval from a committee of three economics faculty. Formerly ECON 597.

ECON 6000. Proseminar in Economics. Units: 2

Survey of the concepts and ideas that economists study, with emphasis on globalization. Formally Econ 600.

ECON 6303. International Economic Issues. Units: 3

Contemporary international economic issues of relevance, directly and indirectly, to national security.

ECON 6605. Advanced Topics in Economics. Units: 3

Semester Prerequisite: Consent of instructor. Quarter Prerequisite: Consent of instructor

Advanced study of selected areas of economics. May be repeated for credit as topics change.

ECON 6951. Graduate Independent Study in Economics. Unit: 1

Semester Prerequisite: Graduate standing, consent of instructor, and approval by Department Chair of written proposal. Prerequisite: Graduate standing, consent of instructor, and approval by Department Chair of written proposal

Independent graduate research in economics.

ECON 6952. Graduate Independent Study in Economics. Units: 2

Semester Prerequisite: Graduate standing, consent of instructor, and approval by Department Chair of written proposal. Quarter Prerequisite: Graduate standing, consent of instructor, and approval by Department Chair of written proposal

Independent graduate research in economics. Formerly ECON 695B.

ECON 6953. Graduate Independent Study in Economics. Units: 3

Semester Prerequisite: Graduate standing, consent of instructor, and approval by Department Chair of written proposal. Quarter Prerequisite: Graduate standing, consent of instructor, and approval by Department Chair of written proposal

Independent graduate research in economics. Formerly ECON 695C.

Education-Career and Technical Studies (ECTS)

Courses

ECTS 3200. Continual Improvement. Units: 3

This course examines the principles, strategies, and tools required for promoting ongoing improvement within organizations, educational settings, and communities. Students will examine key frameworks, including Total Quality Management (TQM), Lean, Six Sigma, SCOPE, and Agile methodologies, focusing on how these approaches can be applied to drive sustainable progress. Emphasis will be placed on understanding the cycle of improvement, from problem identification and root cause analysis to solution implementation and measurement of success. Through case studies, simulations, and hands-on projects, students will gain practical experience in applying continual improvement strategies, cultivating a culture of innovation, and achieving long-term performance gains. By the end of the course, students will have acquired the knowledge and skills necessary to lead improvement initiatives, monitor their effectiveness, and adapt strategies to address evolving challenges across various sectors.

ECTS 3350. Introduction to Career and Technical Studies. Units: 3

Quarter Prerequisite: consent of instructor

Introduction to the history, philosophy, literature and organizations of comprehensive vocational, technical and occupational workforce development programs. Formerly offered as ECTS 3350.

ECTS 3420. Leadership Knowledge, Practices, and Habits of Mind. Units: 3

This course examines the foundational knowledge, key practices, and essential habits of mind necessary for effective leadership in diverse settings. Students will engage with leadership theories and frameworks to develop a deep understanding of how leadership is practiced and cultivated. Students will learn how their own and others' perspectives, perceptions, and positionality impact the culture of schools, organizations, and communities. The course will emphasize the importance of self-awareness, emotional intelligence, critical thinking, and reflective practices as integral components of successful leadership. Through case studies, self-assessments, and collaborative activities, students will explore how effective leaders develop and maintain the knowledge, practice, and habits of mind that foster growth, develop collaborative teams, and drive positive change. By the end of the course, students will be equipped with the tools and insights to lead with confidence, adapt to complex challenges, and collaborate with others to achieve shared goals.

ECTS 4350. Trends and Issues in Career and Technical Programs. Units: 3

Assessment of students ability to integrate knowledge and demonstrate independent critical thinking skills through a capstone project relevant to Career and Technical Program subject matter content. Discussion of current trends and issues relevant to Regional Occupational Programs (ROP), adult education programs, and community college programs. Completion and submission of professional portfolio for Career and Technical Competency Evaluation (CTCE) by qualified faculty for recommended credit toward BCTS degree. Formerly offered as ECTS 435.

ECTS 5010. Principles and Methods for Teaching Designated Subjects. Units: 3

Introduction to the principles and methods for teaching designated subjects. Offered as ECTS 5010 and ECTS 6010, students may not receive credit for both. Formerly offered as ECTS 501.

ECTS 5015. Working Around the World. Units: 3

The effects of religion, language and culture, political structure, economics, and physical environment on the development of the workplace and people's perceptions of work and occupations.

ECTS 5020. Instructional Support for Teaching Designated Subjects. Units: 3

Examination of instructional support for designated subjects with emphasis on program advisory committees, student placement, facilities planning, budgeting, student organizations, public relations, career advancement and educational philosophy. Offered as ECTS 5020 and ECTS 6020; students may not receive credit for both. Formerly offered as ECTS 502.

ECTS 5025. Technological Literacy. Units: 3

This course explores technological concepts and their impact on individuals, society, and culture. Technology as a human adaptive system and its relationship to sociological and ideological systems is discussed.

ECTS 5030. Contemporary Issues in Teaching Designated Subjects. Units: 3

Examination of contemporary issues in designated subjects with emphasis on individual education plans, basic skills, school law, multicultural activities, special needs students, safety and performance assessment instruments. Offered as ECTS 5030 and ECTS 6030; students may not receive credit for both. Formerly offered as ECTS 530.

ECTS 5033. Principles of Adult Education. Units: 3

This 3-semester hour foundational course focuses on the continuous learning that is essential for all individuals in an effective, dynamic educational unit or organization. It emphasizes analysis of oneself and of organizations and groups as learners and provides an opportunity to explore central concepts and processes in adult learning, barriers to adult learning, evaluation strategies in adult education, and recent research on human learning.

ECTS 5035. Technology, Ethics, and Society. Units: 3

A framework for understanding how human societies transform themselves through technological innovation. Ethical questions concerning the social effects of technological change.

ECTS 5040. Principles of Career and Technical Education. Units: 3

History, philosophy and social significance of career and technical education, especially in California; investigation of the theories and application of the principles of career and technical education. Offered as ECTS 5040 and ECTS 6040; students may not receive credit for both. Formerly offered as ECTS 504.

ECTS 5080. Organization and Structure of Career and Technical Programs. Units: 3

Investigation and application of principles of facility planning, budgeting, funding sources and related topics as they apply to career and technical programs. Offered as ECTS 5080 and ECTS 6080; students may not receive credit for both. Formerly offered as ECTS 508.

ECTS 5090. Personnel Management in Career and Technical Programs. Units: 3

Semester Prerequisite: ECTS 5080 or ECTS 6080

Principles of personnel selection, evaluation, supervision, school law, and related topics as they apply to career and technical programs. Offered as ECTS 5090 and ECTS 6090; students may not receive credit for both. Formerly offered as ECTS 509.

ECTS 5100. Field Work in Coordination and Supervision of Career and Technical Programs. Units: 3

Semester Prerequisite: ECTS 5090 or ECTS 6090

Supervised field work in supervision and coordination of career and technical programs. Students will contract to perform administrative tasks related to site-based instructional programs. Offered as ECTS 5100 and ECTS 6100; students may not receive credit for both. Formerly offered as ECTS 510.

ECTS 5180. Field Work in Designated Subjects. Units: 3

Quarter Corequisite: ECTS 501 and consent of instructor

Supervised field work for the Designated Subjects Teaching Credential. Includes lesson planning and instructional delivery in an actual teaching environment with evaluation of teaching performance by the on-site supervisor. Offered as ECTS 5180 and ECTS 6180; students may not receive credit for both. Formerly offered as ECTS 518.

ECTS 5190. Instructional Technology for Career and Technical Educators. Units: 3

Application of instructional technology to prepare written, graphic, data base, telecommunication and interactive media materials that accommodate diverse populations in career and technical education with an emphasis on English learner needs. Offered as ECTS 5190 and ECTS 6190; students may not receive credit for both. Formerly offered as ECTS 519.

ECTS 5200. Curriculum Development for Career and Technical Programs. Units: 3

Theory and principles of curriculum development as they apply to vocational, occupational and professional courses. Students will develop a complete curriculum for a course that they could teach. Offered as ECTS 5200 and ECTS 6200; students may not receive credit for both. Formerly offered as ECTS 520.

ECTS 5210. Assessing Student Progress. Units: 3

The development and use of evaluation instruments such as written tests, and criterion-referenced and norm-referenced evaluations. Offered as ECTS 5210 and ECTS 6210; students may not receive credit for both. Formerly offered as ECTS 521.

ECTS 5220. Directing and Managing Occupational Programs. Units: 3

Principles and techniques of design, implementation, management and evaluation of training organizations and programs. Offered as ECTS 5220 and ECTS 6220; students may not receive credit for both. Formerly offered as ECTS 522.

ECTS 5230. Learning Theory and Instructional Research. Units: 3

Application of psychological principles to learning processes relevant to all learners. Focus is on informed decisions about psycho-educational designs which will maximize individual development in cognitive, affective, and psychomotor areas. Offered as ECTS 5230 and ECTS 6230; students may not receive credit for both. Formerly offered as ECTS 523.

ECTS 5410. Topics in Career and technical Education. Units: 3

Study of selected areas of education topics to be determined by the instructor. May be repeated for credit with consent of the instructor as topics change. Offered as ECTS 5410 and ECTS 6410, students may not receive credit for both courses with the same topic. Formerly offered as ECTS 540.

ECTS 5421. Seminar in Designated Subjects Education. Unit: 1

Quarter Prerequisite: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Offered as ECTS 5421 and ECTS 6421; students may not receive credit for both courses with the same topic. Formerly offered as ECTS 542.

ECTS 5422. Seminar in Designated Subjects Education. Units: 2

Quarter Prerequisite: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Offered as ECTS 5422 and ECTS 6422; students may not receive credit for both courses with the same topic. Formerly offered as ECTS 542B.

ECTS 5423. Seminar in Designated Subjects Education. Units: 3

Quarter Prerequisite: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Offered as ECTS 5423 and ECTS 6423; students may not receive credit for both courses with the same topic. Formerly offered as ECTS 5423.

ECTS 5500. Engineering for Educators. Units: 3

This course is designed for those professionals teaching Engineering and Technology courses K-12. The course covers analysis and implementation of effective learning, thinking, modeling, and tool practices as well as standards associated with high quality teaching and leadership in Engineering and Technology education. Offered as ECTS 5500 and ECTS 6500; students may not receive credit for both.

ECTS 5560. Graduate Intensive Academic Writing. Units: 3

Writing related to education including documented research reports, evaluations, and analytical papers. Revision and rewriting will be required. Satisfies WI designation.

ECTS 5951. Independent study in designated subjects. Unit: 1

Independent study in designated subjects as needed to fulfill graduation requirements. Individualized course requirements will be specified in each course syllabi to meet necessary standards and evaluative measures. Department consent required.

ECTS 5952. Independent study in designated subjects. Units: 2

Independent study in designated subjects as needed to fulfill graduation requirements. Individualized course requirements will be specified in each course syllabi to meet necessary standards and evaluative measures. Department consent required.

ECTS 5953. Independent study in designated subjects. Units: 3

Independent study in designated subjects as needed to fulfill graduation requirements. Individualized course requirements will be specified in each course syllabi to meet necessary standards and evaluative measures. Department consent required.

ECTS 6001. Independent study in designated subjects. Unit: 1

Independent study in designated subjects as needed to fulfill graduation requirements. Individualized course requirements will be specified in each course syllabi to meet necessary standards and evaluative measures. Department consent required.

ECTS 6002. Independent study in designated subjects. Units: 2

Independent study in designated subjects as needed to fulfill graduation requirements. Individualized course requirements will be specified in each course syllabi to meet necessary standards and evaluative measures. Department consent required.

ECTS 6003. Independent study in designated subjects. Units: 3

Independent study in designated subjects as needed to fulfill graduation requirements. Individualized course requirements will be specified in each course syllabi to meet necessary standards and evaluative measures. Department consent required.

ECTS 6010. Principles and Methods for Teaching Designated Subjects. Units: 3

Introduction to the principles and methods for teaching designated subjects. Offered as ECTS 5010 and ECTS 6010, students may not receive credit for both. Formerly offered as ECTS 501.

ECTS 6015. Working Around the World. Units: 3

The effects of religion, language and culture, political structure, economics, and physical environment on the development of the workplace and people's perceptions of work and occupations.

ECTS 6020. Instructional Support for Teaching Designated Subjects. Units: 3

Examination of instructional support for designated subjects with emphasis on program advisory committees, student placement, facilities planning, budgeting, student organizations, public relations, career advancement and educational philosophy. Offered as ECTS 5020 and ECTS 6020; students may not receive credit for both. Formerly offered as ECTS 502.

ECTS 6025. Technological Literacy. Units: 3

This course explores technological concepts and their impact on individuals, society, and culture. Technology as a human adaptive system and its relationship to sociological and ideological systems is discussed.

ECTS 6030. Contemporary Issues in Teaching Designated Subjects. Units: 3

Examination of contemporary issues in designated subjects with emphasis on individual education plans, basic skills, school law, multicultural activities, special needs students, safety and performance assessment instruments. Offered as ECTS 5030 and ECTS 6030; students may not receive credit for both. Formerly offered as ECTS 530.

ECTS 6035. Technology, Ethics, and Society. Units: 3

A framework for understanding how human societies transform themselves through technological innovation. Ethical questions concerning the social effects of technological change.

ECTS 6040. Principles of Career and Technical Education. Units: 3

History, philosophy and social significance of career and technical education, especially in California; investigation of the theories and application of the principles of career and technical education. Offered as ECTS 5040 and ECTS 6040; students may not receive credit for both. Formerly offered as ECTS 504.

ECTS 6080. Organization and Structure of Career and Technical Programs. Units: 3

Investigation and application of principles of facility planning, budgeting, funding sources and related topics as they apply to career and technical programs. Offered as ECTS 5080 and ECTS 6080; students may not receive credit for both. Formerly offered as ECTS 508.

ECTS 6090. Personnel Management in Career and Technical Programs. Units: 3

Semester Prerequisite: ECTS 5080 or ECTS 6080
Principles of personnel selection, evaluation, supervision, school law, and related topics as they apply to career and technical programs. Offered as ECTS 5090 and ECTS 6090; students may not receive credit for both. Formerly offered as ECTS 509.

ECTS 6100. Field Work in Coordination and Supervision of Career and Technical Programs. Units: 3

Semester Prerequisite: ECTS 5090 or ECTS 6090
Supervised field work in supervision and coordination of career and technical programs. Students will contract to perform administrative tasks related to site-based instructional programs. Offered as ECTS 5100 and ECTS 6100; students may not receive credit for both. Formerly offered as ECTS 510.

ECTS 6180. Field Work in Designated Subjects. Units: 3

Quarter Corequisite: ECTS 501 and consent of instructor
Supervised field work for the Designated Subjects Teaching Credential. Includes lesson planning and instructional delivery in an actual teaching environment with evaluation of teaching performance by the on-site supervisor. Offered as ECTS 5180 and ECTS 6180; students may not receive credit for both. Formerly offered as ECTS 518.

ECTS 6190. Instructional Technology for Career and Technical Educators. Units: 3

Application of instructional technology to prepare written, graphic, data base, telecommunication and interactive media materials that accommodate diverse populations in career and technical education with an emphasis on English learner needs. Offered as ECTS 5190 and ECTS 6190; students may not receive credit for both. Formerly offered as ECTS 519.

ECTS 6200. Curriculum Development for Career and Technical Programs. Units: 3

Theory and principles of curriculum development as they apply to vocational, occupational and professional courses. Students will develop a complete curriculum for a course that they could teach. Offered as ECTS 5200 and ECTS 6200; students may not receive credit for both. Formerly offered as ECTS 520.

ECTS 6210. Assessing Student Progress. Units: 3

The development and use of evaluation instruments such as written tests, and criterion-referenced and norm-referenced evaluations. Offered as ECTS 5210 and ECTS 6210; students may not receive credit for both. Formerly offered as ECTS 521.

ECTS 6220. Directing and Managing Occupational Programs. Units: 3

Principles and techniques of design, implementation, management and evaluation of training organizations and programs. Offered as ECTS 5220 and ECTS 6220; students may not receive credit for both. Formerly offered as ECTS 522.

ECTS 6230. Learning Theory and Instructional Research. Units: 3

Application of psychological principles to learning processes relevant to all learners. Focus is on informed decisions about psycho-educational designs which will maximize individual development in cognitive, affective, and psychomotor areas. Offered as ECTS 5230 and ECTS 6230; students may not receive credit for both. Formerly offered as ECTS 523.

ECTS 6350. Research in Career and Technical Education. Units: 3

Analysis and implementation of quantitative, qualitative, and mixed method research in Career and Technical Education.

ECTS 6370. Foundations of Career and Technical Studies. Units: 3

Quarter Prerequisite: graduate standing
Historical context, philosophy and development of vocational education. Formerly offered as ECTS 637.

ECTS 6380. Critical Issues for the Career and Technical Educator. Units: 3

Quarter Prerequisite: ECTS 637 or consent of instructor
Current legislation, program planning, professional development and current issues in vocational education. Formerly offered as ECTS 638.

ECTS 6390. Professional Competencies in Career and Technical Studies. Units: 3

Quarter Prerequisite: ECTS 638 or consent of instructor
Roles of professional organizations, research in vocational education, grant writing and strategies for project evaluation. Formerly offered as ECTS 639.

ECTS 6401. Topics in Education. Unit: 1

Quarter Prerequisite: graduate standing and consent of instructor
Study of selected areas of advanced education topics to be determined by the instructor. May be repeated for credit with consent of instructor as topics change.

ECTS 6402. Topics in Education. Units: 2

Quarter Prerequisite: graduate standing and consent of instructor
Study of selected areas of advanced education topics to be determined by the instructor. May be repeated for credit with consent of instructor as topics change.

ECTS 6403. Topics in Education. Units: 3

Quarter Prerequisite: graduate standing and consent of instructor
Study of selected areas of advanced education topics to be determined the instructor. May be repeated for credit with consent of instructor as topics change.

ECTS 6410. Topics in Career and technical Education. Units: 3

Study of selected areas of education topics to be determined by the instructor. May be repeated for credit with consent of the instructor as topics change. Offered as ECTS 5410 and ECTS 6410, students may not receive credit for both courses with the same topic. Formerly offered as ECTS 540.

ECTS 6421. Seminar in Designated Subjects Education. Unit: 1

Quarter Prerequisite: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Offered as ECTS 5421 and ECTS 6421; students may not receive credit for both courses with the same topic. Formerly offered as ECTS 542.

ECTS 6422. Seminar in Designated Subjects Education. Units: 2

Quarter Prerequisite: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Offered as ECTS 5422 and ECTS 6422; students may not receive credit for both courses with the same topic. Formerly offered as ECTS 542B.

ECTS 6423. Seminar in Designated Subjects Education. Units: 3

Quarter Prerequisite: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Offered as ECTS 5423 and ECTS 6423; students may not receive credit for both courses with the same topic. Formerly offered as ECTS 5423.

ECTS 6500. Engineering for Educators. Units: 3

This course is designed for those professionals teaching Engineering and Technology courses K-12. The course covers analysis and implementation of effective learning, thinking, modeling, and tool practices as well as standards associated with high quality teaching and leadership in Engineering and Technology education. Offered as ECTS 5500 and ECTS 6500; students may not receive credit for both.

ECTS 6980. Comprehensive Examination. Units: 0

Quarter Prerequisite: Advancement to candidacy, approval of department, completion of course work in the Master Program, and in good academic standing
An assessment of student ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. Formerly offered as ECTS 999. Department consent required.

Education-Educational Leadership (EDDL)

Courses

EDDL 7012. Foundations of Leadership in PK-12 Institutions. Units: 3

Semester Prerequisite: Admission to EdD Program. Quarter Prerequisite: Admission to the EdD Program
Provides an in-depth overview of California's PK-12 education system. Students will use critical thinking to analyze and evaluate the complexities of historical, philosophical, and socio-political aspects of PK-12 education systems. Emphasizes impact of leadership on societal and legal issues affecting relationships between PK-12 and higher education. Formerly offered as EDUC 705.

EDDL 7020. Foundations of Community Colleges and Other Higher Education Systems. Units: 3

Quarter Prerequisite: Admission to EdD Program
Provides an in-depth overview of California's higher education system. Students will use critical thinking to analyze and evaluate the complexities of historical, philosophical, and socio-political aspects of higher education systems. Emphasizes impact of leadership on societal and legal issues affecting relationships between higher education and PK-12. Formerly offered as EDUC 760.

EDDL 7112. Leadership for Teaching and Learning in PK-12. Units: 3

Semester Prerequisite: Admission to EdD Program. Quarter Prerequisite: EADM 730 and 732
This course presents leadership skills, strategies, and models for leading, teaching, and learning. Emphasizes leadership for improving teaching strategies related to learning theories, instructional reform, and professional development for school improvement. Formerly offered as EADM 736.

EDDL 7120. Leadership for Teaching and Learning in Community College/Higher Education. Units: 3

Semester Prerequisite: Admission to EdD Program
Presents teaching and learning theories,
policies, and practices that leaders can engage to foster college student transition, persistence, and completion. Emphasizes leadership practices that coordinate resources, improve student learning, and foster academic achievement for diverse student populations in the community college and higher education sector. Formerly offered as EDUC 764.

EDDL 7212. Public School Organization, Governance, and Policy. Units: 3

Semester Prerequisite: Admission to EdD Program. Quarter Prerequisite: admission to the Ed
Examines PK-12 governance and policy at the district, county, state, and federal level using organizational theories. The course focuses on leaders applying practices that connect legislative and judicial action with social, political, and economic forces affecting PK-12. Formerly offered as EADM 730.

EDDL 7220. Higher Education Organization, Governance, and Policy. Units: 3

Semester Prerequisite: Admission to EdD Program
Examines higher education governance and policy at the institutional, state, and federal level using organizational theories. The advanced course focuses on leaders applying practices that connect legislative and judicial action with social, political, and economic forces affecting higher education. Formerly offered as EDUC 768.

EDDL 7312. Assessment and Data Driven Decision-Making in PK-12. Units: 3

Semester Prerequisite: Admission to EdD Program. Quarter Prerequisite: EADM 734 and EADM 736
Establishes the understanding and application of assessment and evaluation to inform leadership practices that promote equitable student outcomes. This course will focus on the concepts and processes of conducting program evaluation using a variety of evaluation models. Formerly offered as EADM 738.

EDDL 7320. Assessment and Data Driven Decision-Making in Community Colleges/ Higher Education. Units: 3

Semester Prerequisite: Admission to EdD Program
Establishes the understanding and application of assessment and evaluation to inform leadership practices that promote equitable student outcomes and sustain the health of higher education. Formerly offered as EDUC 766.

EDDL 7801. Scientific Inquiry. Units: 3

Semester Prerequisite: Admission to EdD Program. Quarter Prerequisite: admission to the Ed
Offers guided practice in the critical review and application of current educational literature, the development of comprehensive research questions and/or hypothesis development, and design of basic quantitative, qualitative, or mixed methods through a field based problem of practice approach. Three hours seminar and two hours activity. Formerly offered as EDUC 700.

EDDL 7802. Applied Quantitative Research. Units: 3

Semester Prerequisite: Admission to EdD Program. Quarter Prerequisite: EDUC 700 and EDUC 705
Offers guided practice in developing and conducting quantitative research in education. Supports the design and application of quantitative studies adhering to rigorous scientific standards, including data analysis and write up.

EDDL 7803. Applied Qualitative Research. Units: 3

Semester Prerequisite: Admission to EdD Program. Quarter Prerequisite: EDUC 707 and EDUC 709
Offers guided practice in developing and conducting qualitative research in education. Supports the design and application of qualitative studies adhering to rigorous research standards, data analysis and write up.

EDDL 7804. Dissertation. Units: 3

Semester Prerequisite: Admission to EdD Program, advancement to candidacy. Quarter Prerequisite: EDUC 707 and EDUC 716
Directed independent study. Students prepare their dissertations with faculty support. Dissertation focus is primarily on problems of practice and leadership roles that impact the regional service region.

EDDL 7901. Theories and Principles of Leadership. Units: 3

Semester Prerequisite: Admission to EdD Program. Quarter Prerequisite: Admission to the EdD Program
Examines the relationships between theories of educational leadership, applied research, and practice in PK-12 school districts and community colleges. The course provides a context for understanding the current and emerging nature and roles of educational leaders and the importance of visionary leadership based on a shared vision and ethical decision-making.

EDDL 7902. Leadership and Educational Reform. Units: 3

Semester Prerequisite: Admission to the EdD Program
Explores governing educational policy, including significant laws, legal principles, recent litigation, teacher and faculty rights and duties, administrative behavior, board relationships and labor management relations. Focuses on connections between legislative and judicial action and the social, political and economic forces affecting education and leadership practice.

EDDL 7903. Leadership and Fiscal Planning in Complex Organizations. Units: 3

Semester Prerequisite: Admission to the EdD Program
Methods of financing public education. Identifies budgeting and accounting techniques used by school districts and college leaders in support of the instructional process and considers legal requirements and public reactions to the financing of education and resource allocation to achieve student outcomes.

EDDL 7904. Human Resources Development and Management. Units: 3

Semester Prerequisite: Admission to the EdD Program
This course examines leadership issues surrounding human resources in PK-20 contexts, including: state and federal laws, union relations, employee hiring and evaluation, professional development, and capacity building.

EDDL 7905. Field-based Practicum in PK-20 Settings. Units: 3

Field-based experiences that enhance leadership practice and provide for significant interaction in either PK-12 and/or community college/higher education settings.

EDDL 7980. EdD Qualifying Exam. Units: 0

Semester Prerequisite: Admission to EdD Program
Directed independent study. Students prepare for their qualifying exam with faculty support.

Education Ethnic Studies (EDES)

Courses

EDES 5001. Race and Racism in the U.S. Educational System. Units: 3

Introduces the concepts of race, ethnicity, and racism along with their impact on legislation, policies, and practices of the education system in the United States. Students make connections between the historical, sociocultural, and political contexts of racism with educational inequities and the foundation of Ethnic Studies.

EDES 5002. History of Ethnic Studies Education. Units: 3

Students examine the Ethnic Studies movements and Ethnic Studies education as a field of study. Students review the existing empirical research and learn both the history of Ethnic Studies movements and benefits of Ethnic Studies in both K-12 and higher education settings.

EDES 5003. Pedagogies and Methodologies of Ethnic Studies Education. Units: 3

This course provides an overview of Ethnic Studies methodologies and pedagogical practices that students adapt to in K-12, community, and higher education contexts.

EDES 5004. Creating the Future of Ethnic Studies Education. Units: 3

This course prepares students to navigate the contested terrain of ethnic studies education through praxis. Students move from theory to practice by considering the various tools available in Ethnic Studies Education and integrate them with other technologies and methods to develop educational approaches that interrupt and aim to dismantle systemic racism.

Education-Multiple Subject (EDMS)

Courses

EDMS 2301. Introduction to Education. Units: 2

Semester Prerequisite: admission to the Liberal Studies major
Perspectives on public school teaching for potential elementary teachers including the various roles of teachers the society and history. Preparation for admission to the credential portion of the B.A. in Liberal Studies, Integrated Track. A minimum of 30 hours of observation/participation in public schools grades K-8. Formerly EELB 230. Graded A through C-/No Credit.

EDMS 3010. Growth and Development in Socio-Educational Contexts. Units: 3

A comprehensive introduction to human development from birth through adolescence. Emphasis is on physical, cognitive, social-emotional, moral, and language development within educational contexts as affected by race, sex, culture, home language, gender, sexual orientation, socioeconomic status, and special needs. A minimum of 15 hours of observation in an approved school setting is required for this course. Graded A through C-/No Credit. Formerly EELB 301.

EDMS 3011. Observational Methods and Data Collection in School Contexts. Units: 3

Introduction to observational methodologies and data collection techniques used to collect information about children's growth and school contexts. Students will observe, record, analyze, and interpret school age students growth and development as they relate to to current developmental research, theories, and school practices. A minimum of 15 hours of child observation will be required. Formerly offered as EELB 301.

EDMS 4101A. Language Arts Teaching and Learning. Units: 3

Quarter Prerequisite: admission to the Multiple Subject Credential Program
This course provides teacher candidates with the skills, knowledge and practices that promote reading and language arts learning in language arts, content-area instruction and differentiated instruction for all students. The focus of instruction will be on a variety of teaching strategies and theories that inform English Language Arts instruction and learning. Graded A through C-/No Credit. Formerly EELB 315.

EDMS 4101B. Language Arts Teaching and Learning in Bilingual Settings. Units: 3

Semester Prerequisite: admission to the multiple subject credential program. Quarter Prerequisite: admission to the Multiple Subject Credential Program
This course prepares teacher candidates with the skills, knowledge and practices that promote student learning of reading and language arts in bilingual settings. The course examines current theories of biliteracy development and strategies for teaching emergent bilingual learners, with a particular focus on Language Arts instruction. Requires field component including participation with emergent readers in an approved Multiple Subject bilingual setting. Graded A through C-/No credit. Formerly EELB 316.

EDMS 4103. Creating Supportive and Engaging Learning Environments. Units: 2

Quarter Prerequisite: Admission to the Multiple Subject Credential Program
Seminar focusing on knowledge, skills and dispositions required to create and maintain a supportive, healthy environment for student learning. Topics include learning about students, encouraging parental involvement and support, understanding multiple factors that influence behavior, using support personnel, establishing procedures which result in using instructional time effectively, and developing a management plan based on research and personal educational philosophy. Formerly EELB 422. If not taken concurrently with student teaching, then five hours of fieldwork will be required. Graded A through C-/No credit.

EDMS 4107. Supervised Student Teaching in Multiple Subject In Bilingual Settings. Units: 6

This course fulfills in part the clinical experience requirements of the CTC for programs leading to a Multiple Subject Credential. Generally 8 weeks to be completed in bilingual settings such as Dual Language Immersion. The equivalent 4107a for bilingual candidates was updated to 6 units this past term. We request the Bilingual equivalent to be updated to 6 units this time around. semester conversion.

EDMS 4107A. Supervised Student Teaching in Multiple Subject. Units: 6

Semester Prerequisite: Must be a graduate student or admitted to the Multiple Subject Credential Program
Structured, supervised student teaching experience in a TK-6 setting. Those seeking a bilingual added authorization are placed in a bilingual setting. Formerly EELB 540A. Grading: Credit/No credit.

EDMS 4107B. Supervised Student Teaching in Multiple Subject II. Units: 3

Semester Prerequisite: Complete all Phase I courses, including EDMS 4110. Quarter Prerequisite: Complete all phase I courses, including supervised student teaching I
Semester Corequisite: EDMS 4111
Structured, supervised teaching experience in a TK-6 setting. Those seeking a bilingual added authorization are placed in a bilingual setting. Formerly EELB 540B. Must be taken concurrently with EDMS 4111.

EDMS 4108A. Supervised Intern Teaching in Multiple Subject I. Units: 3

Semester Prerequisite: complete all program prerequisites. Prerequisite: EELB 312, EELB 313, EELB 315 or EELB 316, EELB 317, EELB 422, EELB 423, EELB 425, and EELB 560A
Application of theory to practice for intern teachers currently teaching in TK-6 settings. 16 weeks over two semesters of supervised intern teaching are required. Provides intern teachers the opportunity to learn from experienced educators, evaluated against California Teaching Performance Expectations, and to have the support and guidance from site administrators, mentor teacher, and EL expert in order to become effective educators. Graded Credit/No credit. Formerly EELB 560A.

EDMS 4108B. Supervised Intern Teaching in Multiple Subject II. Units: 3

Semester Prerequisite: EDMS 4108A. Quarter Prerequisite: EELB 312, EELB 313, EELB 315 or EELB 316, EELB 317, EELB 422, EELB 423, EELB 425, and EELB 560A
Provides the second semester of supervised student teaching for intern teachers currently teaching in TK-6 settings. 16 weeks over two semesters of supervised intern teaching are required, this is the second semester. Application of theory to practice , provides intern teachers the opportunity to learn from experienced educators, evaluated against California Teaching Performance Expectations, and to have the support and guidance from site administrators, mentor teacher, and EL expert in order to become effective educators. Formerly EELB 560B. Graded Credit/ No Credit.

EDMS 4109. Internship Seminar for Multiple Subject. Units: 3

EDMS 4109 is designed to prepare teacher candidates for a successful completion of their intern teaching assignment and for the entry and success in a professional teaching position in public schools. The teaching/learning methods used in this course will include lecture/ demonstration, small group work, and class discussion, a variety of active-learning techniques, microteaching, and independent work. This course is offered during the first semester of internship. Formerly offered as EELB 480. Grading is A through C-/No Credit.

EDMS 4110. Assessment Seminar: CalTPA Cycle. Units: 3

Semester Corequisite: EDMS 4107A
Knowledge, skills and dispositions required for first year teachers. Emphasis on content specific and developmentally appropriate pedagogy, characteristics of English learners and students with special needs, and preparation to document parts of teacher performance expectations 1-6. Preparation and individual mentoring for CalTPA 1 and 2. Graded Credit/ No credit. Formerly EELB 520E.

EDMS 4111. Assessment Seminar: CalTPA Cycle 2. Units: 2

Semester Prerequisite: EDMS 4110
Semester Corequisite: EDMS 4107B
Knowledge, skills and dispositions required for first year teachers. Emphasis on content specific and developmentally appropriate pedagogy, characteristics of English learners and students with special needs, and preparation to document parts of teacher performance expectations 1-6. Preparation and individual mentoring for TPA Cycle 2. Formerly EELB 520F. Graded Credit/No credit.

EDMS 5100. Psychological Foundations of Education. Units: 3

Overview of psychological principles as applied to education using a variety of theoretical perspectives from psychology to explore educational practices, student development and characteristics, learning processes, teaching strategies and assessment in linguistically and culturally diverse classrooms. Requires a minimum ten-hour field component in an approved setting. Graded A through C-/No credit. Formerly EELB 317, EDMS 4100.

EDMS 5102. Pedagogical Foundations for Teaching English Learners. Units: 3

Quarter Prerequisite: admission to the Multiple Subject Credential Program
Examines second language acquisition theories and principles, and instructional practices designed to develop the linguistic, social, and academic proficiency of English learners. Overview of educational equity for culturally and linguistically diverse learners, as this applies to the core curriculum, school practices, and high academic achievement. This course requires a field component at an approved public school setting, K through 6, where English learners attend. Graded A through C-/No credit. Formerly EELB 313, EDMS 4102.

EDMS 5104. Mathematics Teaching and Learning. Units: 3

Semester Prerequisite: Admission to the Multiple Subject Credential Program. Quarter Prerequisite: Admission to the Multiple Subject Credential Program
Introductory course in curriculum and instruction in mathematics. Emphasis on implementing state-adopted mathematics curriculum standards and skills in an elementary classroom based on an in-depth understanding of concepts, skills, and strategies in mathematics. Includes designing instruction to meet the academic needs of all learners in a diverse classroom including English learners and learners with special needs. Graded A through C-/No credit. Formerly EELB 423.

EDMS 5105. Science Teaching and Learning. Units: 3

Semester Prerequisite: admission to the Multiple Subject Credential Program
Introductory course in curriculum and pedagogy in science and health. Emphasis on implementing state adopted science and health curriculum standards in an elementary classroom, including designing instruction to integrate technology and meet academic needs of all learners such as English language learners and special needs students. If not taken concurrently with Student Teaching, then six hours of fieldwork will be required. Graded A through C-/No credit. Formerly EELB 532.

EDMS 5106A. Social Studies and the Arts Teaching and Learning. Units: 3

Semester Prerequisite: Admission to the Multiple Subject Credential Program and completion of all Phase I courses. Quarter Prerequisite: admission to the Multiple Subject Credential Program and completion of all Phase I, II and III courses for intern teachers
Methods of teaching history/social studies and visual/performing arts. Emphasis on implementing state adopted curriculum standards and skills in an elementary classroom based on an in-depth understanding of concepts, skills, and strategies in history/social studies and the visual/performing arts. Includes designing a teaching unit to meet academic needs of all learners including English language learners and learners with special needs. Graded A through C-/No credit. Formerly EELB 533.

EDMS 5106B. Social Studies and the Arts Teaching and Learning in Bilingual Settings. Units: 3

Semester Prerequisite: Admission to the Multiple Subject Credential Program and completion of all Phase I courses
Methods of teaching history/social studies and the visual/performing arts in bilingual settings. Emphasis on implementing state adopted curriculum standards and skills in an elementary school based on an in-depth understanding of concepts, skills, and strategies in history/social studies and the visual/performing arts. Includes designing a teaching unit to meet academic and language needs of all learners, including Spanish-speaking learners and learners with special needs. Part of the course will be taught in Spanish. Formerly EELB 534. Six hours of fieldwork will be required.

Education-School Psychology (EDSP)

Courses

EDSP 6607. Research in School Psychology. Units: 3

Methods for conducting research as well as reading, interpreting and applying empirical research in school psychology and related disciplines to the practice of school psychology. Required to meet the Writing Requirement for Graduate Classification for the Ed.S. in School Psychology. May be taken two times for six units. Formerly EDSP 607.

EDSP 6619. Tests and Measurements in School Psychology. Units: 3

Quarter Prerequisite: Admission to program
Individual and group measurement techniques, behavior observation skills, test interpretation, rights and responsibilities of test takers and administrators, and an introduction to personality, aptitude, and achievement measurements. Formerly known as ECLG 619 / EDSP 619.

EDSP 6621. Introduction to School Psychology Practicum. Units: 4

This course introduces school psychology students to the profession of school psychology. Students will observe current issues and practices in the field of school psychology. Students must complete 120 contiguous hours of supervised field placement in an educational setting. Three hours of seminar and one hour of supervision. Graded Credit/No credit. Formerly known as EDSP 6620.

EDSP 6632. Academic Assessment and Intervention. Units: 3

Examination of theories and practices to promote academic learning for school-aged students. Emphasis on empirically validated assessment, intervention, and progress monitoring practices for students at-risk. Formerly EDSP/ECLG 6632.

EDSP 6633. Advanced Child Development. Units: 3

Quarter Prerequisite: ECLG 531 and 632 or admission to the Program
Recent developments in research and theory of child development. Focus is on typical and atypical cognitive, neurological, and social-emotional development in the context of family and community development. May be taken two times for six units. Formerly EDSP 633.

EDSP 6647. Introduction to Cognitive Assessment. Units: 3

Introduction to the administration and interpretation of cognitive processing assessments, which includes academic processing. In this course you will learn about the history, foundations, ethics, and theories of cognitive development and assessment practices. Additionally, this course will focus on special education eligibility and how cognitive processing assessment data can be integrated within a decision-making framework. Materials fee required.

EDSP 6648. Advanced Assessment and Problem-Solving. Units: 3

Advanced instruction on the administration and interpretation of cognitive and academic processing assessment. Advanced activities focused on making evidence-based eligibility decision and recommendations. Additionally, this course will prepare candidates to use a problem-solving framework to addressing individual and systems level concerns. Materials fee required.

EDSP 6656. Counseling Theories. Units: 3

Theories and practices of counseling, applications to educational settings and community settings. May be taken two times for six units. Formerly EDSP 656.

EDSP 6658. Consultation in School Psychology. Units: 3

Theories and models of consultation in schools. Systems theory as applied to School Psychologists. Evidence-based models of consultation in schools. Maybe taken two times for sox units. Previously known as ECLG 658 / EDSP 658.

EDSP 6660. Child Psychopathology. Units: 3

Quarter Prerequisite: completion of introductory course in child development or equivalent or admission to Program
Interdisciplinary approach to understanding abnormal child development within the context of multicultural settings. Use of taxonomical approach including IDEA (Individuals with Disabilities Education Act) and DSM (Diagnostic Statistical Manual) and standard treatment protocol. May be taken two times for six units. Formerly known as EDSP 660.

EDSP 6678. Counseling in the School and Community. Units: 3

Quarter Prerequisite: Admission to the Program
Theory and practice of individual and group counseling in schools and communities. Formerly known as EDSP 678.

EDSP 6681. Counseling Practicum. Units: 3

Quarter Prerequisite: Admission to EdS or PPS School Psychology program, completion of EDSP 656 with B or better
Seminar and practice in the application of counseling skills, theories and techniques, and evidenced-based interventions. Two hours of seminar and one hour of supervision. Formerly known as EDSP 657A.

EDSP 6682. School Psychology Practicum I. Units: 4

Study and experience relative to the practice of school psychology; an emphasis is placed on assessment of students for disabilities, psycho-educational report writing, and the development of Individual Education Plans. Study of theories and techniques in interventions with parents and children. Emphasis on methodology and application of assessment, academic and social interventions, and counseling skills. Two hours, 50 minutes of seminar and one hour of supervision. Graded Credit/No credit. Formerly EDSP 686A and 6685.

EDSP 6683. School Psychology Practicum II. Units: 4

Study and experience relative to the practice of school psychology; an emphasis is placed on assessment of students for disabilities, psycho-educational report writing, and the development of Individual Education Plans. Study of theories and techniques in interventions with parents and children. Emphasis on methodology and application of assessment, academic and social interventions, and counseling skills. Two hours, 50 minutes of seminar and one hour of supervised field practice required. Formerly ECLG 686B and EDSP 6686. Graded Credit/No Credit.

EDSP 6687. Educational Practices in School Psychology. Units: 3

Organizational models, systems analysis, change theories, and strategies as applied to educational institutions. School and Special Education Law, Ethics for School Psychologists. Introduction to Exceptionalities. Formerly known as EDSP 687.

EDSP 6688. Behavioral Assessment and Intervention. Units: 3

Examination of the central elements of behavioral assessment and intervention including monitoring progress of empirically validated interventions. Supports ABA in schools. Overview of evidence-based academic and behavioral interventions. Incorporates behavioral as well as systems consultation models. Formerly known as EDSP 688.

EDSP 6691. Applied Research in Educational Settings. Units: 3

In this class, students will apply the skills they have acquired relevant to the theory and practice of school psychology. Students will demonstrate: their knowledge of evidence-based treatments, their ability to synthesize current literature, their understanding of research methods, and their ability to analyze data, as well as demonstrate their writing skills. May be taken two times for six units.

EDSP 6756. Internship in School Psychology. Units: 6

Supervised practice in school psychology with an emphasis on case presentation. Total of 1200 hours (in either paid or unpaid positions) in a school setting. Students may not earn credit for both EDSP 689 and EDSP 6756. May be taken two times for 12 units. Materials fee required. Graded Credit/no credit.

EDSP 6953. Independent Study in School Psychology. Units: 3

Independent study of a topic of interest under the close supervision of a faculty member. May include directed readings, applied work, assisting a faculty member with a research project, carrying out an independent research project, or other activities deemed appropriate. May be taken two times for six units.

EDSP 6980. Comprehensive Examination. Units: 0

Semester Prerequisite: advancement to candidacy, approval of department, completion of course work in the EdS program, and good academic standing. Quarter Prerequisite: advancement to candidacy, approval of department, completion of course work in the EdS program, and good academic standing
An assessment of the students ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. Graded Credit/No credit.

Multilingual Education & Dual Immersion (EDMD)

Courses

EDMD 5101. Teaching & Learning Methods in Spanish Multilingual Settings:. Units: 3

This graduate-level course is designed to provide prospective bilingual teachers with the essential competencies to teach in Multilingual Spanish settings. Its primary goal is to prepare graduate students for teaching in bilingual settings by examining diverse program models for bilingual instruction, teaching strategies for content areas and reading, materials selection, and assessment techniques. The course requires a prerequisite of 20 hours of fieldwork in schools, where students will have the opportunity to apply what they learn in class.

EDMD 5102. Cultural Proficiency in Spanish Multilingual Settings. Units: 3

This graduate-level course delves into the intersection of education and cultural proficiency in relation to Latinx students in multilingual settings. Drawing upon current research and theoretical frameworks, student teachers will critically analyze the diverse cultural, linguistic, and historical backgrounds of Latinx students and explore strategies for fostering inclusive and equitable learning environments. The course examines key topics such as culturally proficient pedagogy, culturally relevant and responsive curriculum, community engagement, and social justice advocacy. Through readings, case studies, interactive discussions, and practical lesson planning, student teachers will develop the knowledge and skills necessary to enhance their cultural proficiency and create empowering educational experiences for Latinx students.

Education (EDUC)

Courses

EDUC 3201. Diversity in Education. Units: 3

This course explores how issues of race, ethnicity, language, gender, and sexual orientation have shaped American education and how they continue to do so. Furthermore, the course examines different approaches for responding to diversity in education in order to bring about social justice, inclusion, and equity. Graded A through C-/NC.

EDUC 5421. Seminar in Education. Unit: 1

Quarter Prerequisite: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Formerly EDUC 542A.

EDUC 5422. Seminar in Education. Units: 2

Quarter Prerequisite: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Formerly EDUC 542B.

EDUC 5423. Seminar in Education. Units: 3

Quarter Prerequisite: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Formerly EDUC 542C.

EDUC 5424. Seminar in Education. Units: 4

Quarter Prerequisite: graduate standing or consent of instructor
Intensive study of topics and problems in education. May be repeated for credit as subject matter changes and with consent of instructor. Formerly EDUC 542D.

EDUC 5951. Independent Study. Unit: 1

Quarter Prerequisite: a minimum overall grade point average of "B"
Special topics involving library and/or field research. Consent of instructor and college approval of a written proposal of a project submitted on a standard application filed in advance of the semester in which the course is to be taken. Formerly EDUC 595A.

EDUC 5952. Independent Study. Units: 2

Quarter Prerequisite: a minimum overall grade point average of "B"
Special topics involving library and/or field research. Consent of instructor and college approval of a written proposal of a project submitted on a standard application filed in advance of the semester in which the course is to be taken. Formerly EDUC 595B.

EDUC 5953. Independent Study. Units: 3

Quarter Prerequisite: a minimum overall grade point average of "B"
Special topics involving library and/or field research. Consent of instructor and college approval of a written proposal of a project submitted on a standard application filed in advance of the semester in which the course is to be taken. Formerly EDUC 595C.

EDUC 5954. Independent Study. Units: 4

Quarter Prerequisite: a minimum overall grade point average of "B"
Special topics involving library and/or field research. Consent of instructor and college approval of a written proposal of a project submitted on a standard application filed in advance of the semester in which the course is to be taken. Formerly EDUC 595D.

EDUC 6603. Effective Communication in Education. Units: 3

Theoretical approaches to effective communication in educational contexts. Dynamics of interpersonal communication; participation of individuals and small groups from a pluralistic perspective; writing and speaking for professional and academic purposes. Formerly EDUC 603.

EDUC 6607. Introduction to Educational Research. Units: 3

Quarter Prerequisite: EDUC 603 and 605
Introduction to the vocabulary, design, and sources of quantitative and qualitative methodologies, and program evaluation research in education. Ethical strategies for collecting, treating, and reporting data are emphasized; research reports and identifying, developing and critiquing trends in research communities. Formerly EDUC 607.

EDUC 6951. Advanced Independent Study Topics in Education. Unit: 1

Quarter Prerequisite: minimum grade point average of "B"
Special topics involving application of educational procedures. Consent of instructor and college approval of a written proposal of a project submitted on a standard application, and filed in advance of the term in which the course is to be taken. Formerly EDUC 601A.

EDUC 6952. Advanced Independent Study Topics in Education. Units: 2

Quarter Prerequisite: minimum grade point average of "B"
Special topics involving application of educational procedures. Consent of instructor and college approval of a written proposal of a project submitted on a standard application, and filed in advance of the term in which the course is to be taken. Formerly EDUC 601B.

EDUC 6953. Advanced Independent Study Topics in Education. Units: 3

Quarter Prerequisite: minimum grade point average of "B"
Special topics involving application of educational procedures. Consent of instructor and college approval of a written proposal of a project submitted on a standard application, and filed in advance of the term in which the course is to be taken. Formerly EDUC 601C.

EDUC 6954. Advanced Independent Study Topics in Education. Units: 4

Quarter Prerequisite: minimum grade point average of "B"
Special topics involving application of educational procedures. Consent of instructor and college approval of a written proposal of a project submitted on a standard application, and filed in advance of the term in which the course is to be taken. Formerly EDUC 601D.

EDUC 6960. Masters Project. Units: 3

Semester Prerequisite: advancement to candidacy. Quarter Prerequisite: advancement to candidacy
Student completes an independent project at the Master's level, supervised by a faculty member. Formerly EDUC 600.

EDUC 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

EDUC 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

EDUC 6992. Continuous Enrollment for Graduate Candidacy Standing. Units: 2

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

EDUC 6993. Continuous Enrollment for Graduate Candidacy Standing. Units: 3

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

EDUC 6994. Continuous Enrollment for Graduate Candidacy Standing. Units: 4

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

EDUC 6995. Continuous Enrollment for Graduate Candidacy Standing. Units: 5

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

EDUC 6996. Continuous Enrollment for Graduate Candidacy Standing. Units: 6

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

EDUC 7412. Leadership in Pupil Personnel Services. Units: 3

Semester Prerequisite: Admission to the EdD Program. Quarter Prerequisite: EDUC 712 and EDUC 714

Leadership roles in providing the array of pupil personnel services including counseling, school psychology, speech therapy, and other adjunct or related services. Examines the key role that these services represent in overall program design and operation.

EDUC 7420. Career and Technical Education Leadership in Community College. Units: 3

Semester Prerequisite: Admission to EdD Program

Examines the leadership role of career and technical education in community colleges and its overall mission. Focus areas will include the relationships between PK-12 and community college programs with emphasis on state and federal regulations.

EDUC 7907. Diversity and Equity in Education. Units: 3

Semester Prerequisite: Admission to EdD Program. Quarter Prerequisite: EDUC 700 and EDUC 705

This course prepares educational leaders to promote equity and diversity in PK-20. In-depth focus on issues of race, class, gender, immigrant status, sexual orientation and identity, language, and other forms of marginalization. Students review theories, interpret policies, and develop inclusive leadership practices. Formerly offered as EDUC 709.

EDUC 7908. Ethical Leadership and Decision Making in Education. Units: 3

Leadership ethics and the utilization of principles of personal balance in daily life and work. Covers decision-making theories and how decisions are made at various levels in PreK-12 and community college/higher education to effectuate positive and sustaining change. Formerly offered as EDUC 726.

Education-Elementary/Bilingual Education (EELB)

Courses

EELB 5420. Seminar in Elementary/Bilingual Education. Unit: 1

Semester Prerequisite: admission to the Multiple Subject Credential Program and consent of the instructor

Intensive study of topics and problems in education for candidates seeking the Bilingual Added Authorization. May be repeated for credit as subject matter changes and with consent of instructor.

EELB 5500. Social and Cultural Contexts of Bilingual Education. Units: 3

Examination of the social and cultural contexts of bilingual education in the United States. Sociological, societal, historical and cultural contexts in which multilingual learners are educated, including social context, cultural norms and school practices with particular attention to language minority student populations.

EELB 6100. Theory and Approaches in Bilingual Education. Units: 4

Quarter Prerequisite: consent of instructor

Survey of theories, policies and approaches to educating bilingual learners, including bilingual/ crosscultural teaching approaches, instructional modes and program types.

EELB 6200. Bilingual Language and Literacy Development. Units: 3

Examines the language and literacy development of bilingual students from a range of perspectives, with a special emphasis on sociocultural, psycholinguistic, and sociolinguistic understandings of these processes. Formerly offered as EELB 626.

EELB 6250. Instruction and Innovation in Bilingual Education. Units: 4

Semester Prerequisite: EELB 5500

Examines the theoretical bases of innovations in curriculum, instruction and school reform to meet the needs of students in bilingual education. Emphasizes practices, pedagogies and instructional approaches to integrating English and Spanish in the classroom; integrating subject matter content and language.

EELB 6300. Bilingualism and Cognitive Development in Schools. Units: 4

Examines the cognitive development of bilingual learners in school settings. For educators this requires an understanding of the connectedness of social, institutional, motivational and interactional factors which foster the cognitive and academic language development of bilingual students. Includes instructional practices, methods and strategies that foster language and academic development.

EELB 6350. Curriculum and Materials for Bilingual Classrooms. Units: 4

Semester Prerequisite: EELB 6100

Provides participants with advanced knowledge of curriculum design, lesson design and assessment for effective bilingual and English as a Second Language (ESL) instruction. Identifying, selecting, evaluating and designing materials and digital resources for bilingual classrooms.

EELB 6400. Research in Bilingual/Cross-Cultural Education. Units: 4

Survey of current topics in the field of bilingual/crosscultural education and their applications in the classroom. Overview of research methods, interpreting research, and conducting classroom-based research and practitioner inquiry in bilingual classrooms.

EELB 6980. Comprehensive Examination: Bilingual / Crosscultural Education. Units: 0

Semester Prerequisite: Advancement to candidacy, approval of department, completion of course work in the masters program and in good academic standing. Quarter Prerequisite: advancement to candidacy, approval of department, completion of course work in the masters program and in good academic standing

A assessment of the candidate's ability to integrate the knowledge of the field of bilingual/ crosscultural education, show critical and independent thinking and demonstrate mastery of the subject matter. Graded credit/no credit. Formerly EELB 999.

Education-English Speakers other Languages (EESL)

Courses

EESL 5050. Graduate Writing for TESOL. Units: 3

Writing for academic purposes at the graduate level, for candidates in the Master of Arts in TESOL. Academic language, multiple academic genres, academic citation and reference conventions, avoiding plagiarism.

EESL 5200. Language Studies for Educators. Units: 3

Introduction to the study of language structure meaning and use for language teachers and educators; survey of first and second language acquisition processes and theories. Introduction to situational, geographical, and identity- based language variation.

EESL 5300. Technology-Enhanced Language Learning. Units: 3

Survey and practice in technology applications for teaching English as an additional language in educational environments including electronic media, Internet, cloud-, mobile-, CD-ROM-, or DVD-based interactive materials, networks, and multimedia. Course includes a computer lab for hands-on application activities with multimedia and technology applications. Formerly offered as EESL 521. Two hours lecture and two hours activity.

EESL 5420. Special Topics in TESOL. Units: 3

Intensive study of selected topics in education for TESOL. May be repeated for credit as topics change. Formerly offered as EESL 542D.

EESL 5500. Listening and Speaking Methods in TESOL. Units: 3

Survey of contemporary pedagogy for teaching listening and speaking skills in English-as-a-second-language (ESL) and English-as-a-foreign-language (EFL) classrooms. In-depth analyses of purposes, audiences, and strategies for oral expression; including methods for teaching pronunciation in second-language acquisition. Formerly a topic under EESL 543.

EESL 6300. Crosscultural Teaching. Units: 3

Methods and instructional strategies for teaching in multicultural and cross-cultural settings in both ESL and EFL contexts. This course prepares teachers to develop cultural awareness and skills to assist and motivate culturally diverse students. May be offered through distance learning. Formerly EESL 536.

EESL 6400. Literacy in TESOL. Units: 3

Semester Prerequisite: EESL 5100

Survey of contemporary approaches to teaching and assessing literacy in multilingual contexts. Introduction to teaching, assessing, and designing instruction for reading and writing, including emergent and basic literacy for children and adults; reading and writing skills and strategies; writing for personal, academic, and creative purposes; and critical literacy.

EESL 6600. Structure, Function and Acquisition of English. Units: 3

Survey of theories and approaches in second language acquisition across settings. Structures, functions and uses of the English language, and how they are acquired and taught in second language and foreign language classrooms. Formerly EESL 660.

EESL 6700. Principles and Practice in TESOL. Units: 3

Second language acquisition theory, methods for teaching English as a second language (ESL), lesson planning, development and evaluation of materials and activities for ESL instruction. Formerly EESL 670.

EESL 6800. Research in TESOL. Units: 3

Overview of important themes and debates in TESOL research, offering a perspective on current research principles and modes of investigation across a wide spectrum of topics in teaching English to speakers of other languages, including communicative competence, transfer, modalities of language use, learning styles and strategies, and language acquisition. Students develop and master skills for interpreting, reviewing, and writing up research. Formerly EESL 685.

EESL 6900. Fieldwork: Teaching English to Speakers of Other Languages. Units: 3

Quarter Prerequisite: consent of instructor

Supervised field work at pre-approved fieldwork sites in selected teaching methods and materials development for TESOL. Formerly EESL 679.

EESL 6970. Master's Thesis in TESOL. Units: 3

Quarter Prerequisite: Advancement to candidacy

Development and completion of master's thesis.

EESL 6980. Comprehensive Examination in TESOL. Units: 0

Semester Prerequisite: EESL 6100, Advancement to candidacy, approval of department, submission of Candidate Assessment Portfolio, and good academic standing

An assessment of the candidate's ability to integrate the knowledge of the discipline, and demonstrate critical and independent thinking that evinces mastery of the subject matter. Graded credit/no credit.

Education-Master of Arts in Teaching (EMAT)

Courses

EMAT 5100. Technology and Instructional Practices for Educators. Unit: 1

An emphasis on integrating new media and educational technology with content knowledge in K-12 classrooms. Enhances student knowledge and skills to use technology to introduce, reinforce, extend, enrich, assess, and remediate learning. Graded A through C-/No credit.

EMAT 5101. Education, Diversity and Social Justice. Units: 3

Examines issues of disparity among racial, cultural and linguistic groups in California and the U.S. Interactions among factors such as teaching quality, educational equity, state/federal policies, and achievement gaps are explored. Disparities in educational opportunities and resources are examined with an emphasis on social justice. Formerly offered as EELB 510. Grading is A through C-/No Credit.

EMAT 6011. Advanced Study in Literacy across the Curriculum. Units: 3

A focus on advanced knowledge, skills, and abilities to teach reading/language arts across the different school subjects. Prepares teachers to effectively engage students in learning the language, texts, and literacy practices across different subjects. The role of theoretical frameworks in literacy instruction and learning is highlighted. The importance of literacy instruction and learning that is grounded in social, cultural, historical, psychological, political, and ideological practices is emphasized. Connections between different theoretical perspectives and real-life classroom practices are explored. Graded A through C-/No Credit.

EMAT 6012. Advanced Teaching Methods. Units: 3

Advanced knowledge and skills to implement innovative and creative teaching methods to reach diverse students in schools including English Language Learners. Emphasis on high-impact practices including classroom discussion, collaborative problem solving, metacognitive strategies, formative assessment, effective feedback, scaffolding, and technology to creating inclusive learning environments and maintaining high expectations for all students. Grading is A through C-/No Credit.

EMAT 6013. Educational Research: Inquiry into Classrooms. Units: 3

Educational research with an emphasis on inquiry about teaching, learning and other concepts/practices. Student-directed, interest-driven approaches to new knowledge about the complexity of today's classrooms. Develop hands-on, minds-on skills that increase student engagement in learning. Students will learn effective strategies that they can implement to understand the complex work of student learning; prioritize the knowledge, skills and background experiences that students bring to the classroom; and promote active problem-solving, communication, and the shared construction of new ideas in the classroom. Graded A through C-/No credit.

EMAT 6014. Assessment and Instructional Differentiation. Units: 3

Advanced assessment strategies to measure student performance and deliver effective differentiation of instruction based on a variety of theoretical perspectives from psychology. A focus on formative assessment and the use of feedback that enables enhances learning. Differentiated assessment strategies for diverse learning needs. Understanding the role of assessment in effective instructional planning and implementation. The course explores how assessment affects the other classroom elements (learning environment, curriculum, instruction, and leadership and management). Graded A through C-/No credit.

EMAT 6015. Leadership in Education. Units: 3

Designed to introduce students to leadership experience and leadership roles in schools. The course will emphasize initiatives teachers can take to improve school-wide policies and programs, teaching and learning opportunities, and communication across stakeholders. In particular, this course will provide students the knowledge to improve their schools by developing the skills required to act as leaders. Graded A through C-/No Credit.

EMAT 6016. Social Justice in Education. Units: 3

Examines issues and research on disparity among racial, culturally responsive, and anti-racist in education. The course develops multiple perspectives to educate each and every student regardless of social class, culture, race, ethnicity, language, gender, and sexual identity.

EMAT 6017. Advanced Educational Psychology. Units: 3

This is an advanced seminar exploring recent research, theory, and practice concerning cognition, social-emotional development, learning and instruction, and motivation within diverse educational contexts. The course uses social science research to explore educational practices, student characteristics, learning processes, teaching strategies, and classroom evaluation in today's diverse and rapidly changing educational communities. Formerly EDCI 638.

EMAT 6018. Advanced Seminar in Education. Units: 2

The seminar is designed to prepare and support students as they write their theses, projects, or prepare for the comprehensive examinations. Graded Credit/No credit.

EMAT 6020. Seminar in Professional Development. Units: 3

Principles and processes to enhance students' knowledge, skills, and dispositions for planning, developing and evaluating professional development (PD) activities and programs. Course focuses on procedures for identifying teacher needs, establishing PD goals and outcome criteria. Includes the study of professional development models such as Lesson Study, Professional Learning Communities (PLC), and Personal/Professional Service. Graded A through C-/No credit.

EMAT 6605. Advanced Topics in Education. Units: 3

History and theory of elementary, secondary and post-secondary education within the setting of American society: underlying assumptions, organizational structure, leadership, policy, and educational change. Multiculturalism is studied in a balanced context relevant to the educational setting. Students apply what they learn to their educational philosophy, thereby connecting theory to the daily practice in the schools. Course offered as ESEC 6605 and EMAT 6605; credit cannot be awarded for both. Formerly EDUC 605/6605.

EMAT 6960. Culminating Experience: Project. Units: 3

The project address a practical educational problem resulting in resolution or a product that has application. Students apply original thinking, critical and independent thinking to what they have learned in the program to address real-life situations, problems or challenges. Graded Credit/No credit.

EMAT 6970. Culminating Experience: Thesis. Units: 3

Students conduct original research under the guidance of a faculty advisor. Students show evidence of systematically addressing original research questions, critical and independent thinking. Graded Credit/No credit.

EMAT 6979. Comprehensive Preparation in Teacher Education. Units: 3

Prerequisites: Completion of courses for the program, advancement to candidacy and permission of program coordinator

Review and prepare for the written comprehensive examination. Case studies will be presented. Consent required.

EMAT 6980. Comprehensive Examination. Units: 0

The comprehensive examination is designed to assess the cumulative knowledge, skills and abilities that students have acquired over the period of being in the master program. Graded Credit/No credit.

English (ENG)

Courses

ENG 1000. Academic Speaking for Multilingual Students. Units: 3

Analysis and practice of spoken language in university settings, such as classroom discussions, laboratories, office hours, and other interactions. Builds students' understanding of and fluency in such areas as intonation patterns, grammatical structures, and discourse strategies for particular academic situations. Formerly offered as Eng 100.

ENG 1050A. Stretch Composition I. Units: 3

Analysis and use of strategies for conducting research and critically reading and writing expository texts. Explores relationships among language, meaning, and context, and emphasizes writing as a recursive process and as a means of critical thinking. Students identify themselves for placement in this course through Directed Self-Placement. Students will remain with the same cohort of classmates in the same time slot across ENG 1050A -ENG 1060A. Graded Credit/No Credit. Formerly offered as Eng 105A.

ENG 1050B. Stretch Composition I for Multilingual Students. Units: 3

Analysis and use of strategies for conducting research and critically reading and writing expository texts. Explores relationships among language, meaning, and context, and emphasizes writing as a recursive process and as a means of critical thinking. Students identify themselves for placement in this course through Directed Self-Placement and through self-identification as a speaker of a native or home language other than English. Students who meet these two criteria may also opt to take ENG 1050A instead of ENG 1050B. Students will remain with the same cohort of classmates in the same time slot across ENG 1050B -ENG 1060B. Graded Credit/No Credit. Formerly offered as Eng 105B.

ENG 1060A. Stretch Composition II. Units: 3

Semester Prerequisite: ENG 1050A

Further examination of how written language functions in context. Builds students' abilities to conduct research and to integrate it into their own arguments. Students will remain with the same cohort of classmates in the same time slot across ENG 1050A - ENG 1060A. Graded A through C-/No Credit. A grade of C- or better satisfies GE A2/1A.

ENG 1060B. Stretch Composition II for Multilingual Students. Units: 3

Semester Prerequisite: ENG 1050B

Further examination of how written language functions in context. Builds students' abilities to conduct research and to integrate it into their own arguments. Students will remain with the same cohort of classmates in the same time slot across ENG 1050B - ENG 1060B. Graded A through C-/No Credit. A grade of C- or better Satisfies GE A2/1A.

ENG 1070A. First-Year Composition. Units: 3

Concentrated composition course for advanced first-year writers. Examines the ways written language functions in various contexts. Requires students to conduct research, to draw upon their critical readings of texts to develop their own arguments, and to examine and use rhetorical strategies that respond to different situations. Students identify themselves for placement in this course through Directed Self-Placement. Graded A through C-/No Credit. A grade of C- or better satisfies GE A2/1A.

ENG 1070B. First-Year Composition for Multilingual Students. Units: 3

Concentrated composition course for advanced first-year writers. Examines the ways written language functions in various contexts. Requires students to conduct research, to draw upon their critical readings of texts to develop their own arguments, and to examine and use rhetorical strategies that respond to different situations. Students identify themselves for placement in this course through Directed Self-Placement and through self-identification as a speaker of a native or home language other than English. Students who meet these criteria may also opt to take ENG 1070A instead of ENG 1070B. Graded A through C-/No Credit. A grade of C- or better satisfies GE A2/1A.

ENG 1120. Speculative Fiction: Science Fiction, Horror, Fantasy. Units: 3

Reading and analysis of speculative fiction in its historical and cultural contexts, with emphasis on critical reading and writing. Genres may include but are not limited to science fiction, fantasy, and horror, either individually or in combination. Satisfies GE C2/3B. May be taken for up to 9 units as topics change, only three credits of which can be used for GE.

ENG 1200. Multi-Ethnic American Literature. Units: 3

Introduction to literary works produced by individuals of African American, Asian American, Chicanx/Latinx, or Native American heritage, with an emphasis on literary, historical, and cultural context. Satisfies GE C2/3B, DI designation. May be taken for up to 9 units, only three of which can be used for GE.

ENG 1210. Diversity Literature and Social Justice. Units: 3

Introduction to literary works that reflect diversity, especially of race, gender, sexual orientation, ability, class, or culture, with an emphasis on how literature can respond to questions of social justice, equity, and human rights. Satisfies GE C2/3B, DI, WI designation. May be taken for up to 9 units as topics change, only three of which can be used for GE.

ENG 1300. Foundation Seminar: Language, Society, and Power. Units: 3

Seminar on roles that language plays in personal relationships and in such aspects of society as politics, law, technology, religion, and consumer culture. Emphasizes the power of language to influence, control, and inspire change through various genres and media. Attends to analytical and research strategies critical for students' success in academic, social, and personal settings. Satisfies WI designation.

ENG 1700. Studies in Literature and Creative Writing. Units: 3

Analysis and production of the forms and content of literature. Emphasis placed on methodologies of reading and writing fiction, creative nonfiction, poetry and drama for various media and performance contexts. Satisfies GE C2/3B, DI designation.

ENG 2000. Introduction to English Studies. Units: 3

Introduction to the sub-disciplines in English, including literature, creative writing, linguistics, and rhetoric and writing studies. Orients students to various dimensions of English Studies, the goals of the English B.A., and possible career pathways for English majors. Graded credit/no credit.

ENG 2100. Historical Approaches to English Literature. Units: 3

Quarter Prerequisite: Satisfaction of the GE written communication (A1) requirement or equivalent

Historically framed readings in English literature from the Middle Ages to the 18th Century. Formerly English 210.

ENG 2110. Introduction to Linguistics. Units: 3

Overview of key concepts and methods of linguistics, as applied to the English language. Explores a variety of linguistic areas, such as phonetics, phonology, morphology, syntax, pragmatics, sociolinguistics, and language acquisition.

ENG 2180. The Function of Stories. Units: 3

Examination of the role of stories and storytelling in human societies. Reading and analysis of multidisciplinary theories of the rise of storytelling in the human species and of narrative texts (both film and written) that reflect on the roles stories play in our lives. Satisfies GE C2/3B.

ENG 2250. Historical Approaches to American Literature. Units: 3

Historically framed readings in American literature. Formerly ENG 325.

ENG 2300. Historical Approaches to British Literature. Units: 3

Historically framed readings in nineteenth- and twentieth-century British literature to the present. Formerly ENG 212.

ENG 2400. Writing in the Public Sphere. Units: 3

Consideration of how writers use texts (including visual, digital, and print media) to represent public issues and effect public action. Emphasizes the social and material aspects of public writing and public rhetorics, and includes practice in writing for the public sphere. Satisfies WI designation. Formerly ENG 240.

ENG 2500. Introduction to Creative Writing Studies. Units: 3

Introduction to the reading and writing of multiple genres, such as fiction, non-fiction, drama, and poetry. Emphasis on creative writing process, including reading works by established authors and drafting, reading, discussing, and revising original works by students.

ENG 3000. Studies in Global Literatures. Units: 3

Study of literatures from diverse regions around the world with an emphasis on their emergence in and circulation beyond specific local contexts. Considers how global literatures are shaped by various historical and social processes driving conflict, connectivity, and cross-cultural exchange. Satisfies GE C4/UD-3, DI, G, WI designations, Global Connections, World Cultures and Diversity pathways.

ENG 3010. Analysis of Poetry and Drama. Units: 3

A literary analysis of both poetry and drama with special emphasis on how to write effectively about these forms of literature. Satisfies WI designation.

ENG 3030. Analysis of Fiction and Nonfiction Prose. Units: 3

A literary analysis of both fiction and nonfiction prose with special emphasis on how to write effectively about these forms of literature. Satisfies WI designation.

ENG 3060. Writing as Academic Inquiry. Units: 3

Semester Prerequisite: Satisfaction of GE 1A and junior or senior standing

In this writing-intensive course, students will gain a deeper and more conscious sense of the possibilities of academic inquiry, how disciplinary knowledge is created, and the role of language and writing in inquiry and knowledge making. Through critical reading, writing, and research, students will participate in academic conversation, intersectional inquiry, and explore both the contexts of and the genres within those conversations, as well as consider the ethical responsibility of participating in knowledge-making processes. Revision, rewriting, and collaboration are key components of this course. All majors welcome. Satisfies WI designation.

ENG 3061. Science Writing as Academic Inquiry. Units: 3

Semester Prerequisite: Satisfaction of GE 1A, 1B, and junior or senior standing

This writing intensive course focuses on writing in and about the natural sciences. Students will gain a deeper and more conscious sense of both the possibilities of scientific inquiry and the role of language and writing in scientific inquiry and knowledge-making. Through reading, discussion, writing, and research, students will explore, analyze, and write within a variety of science-related genres, including formal scientific writing (e.g., research and review papers, proposals), as well as those used by scientists to communicate with the general public. Revision, rewriting, and collaboration are key components of the course. This course will also consider the complexities of information creation and dissemination as they relate to the natural sciences. Satisfies WI designation. Graded A through C-/no credit.

ENG 3070. Theories of Public and Professional Writing. Units: 3

Introduction to theoretical and rhetorical frameworks for public and professional writing and practice in developing writing projects. Satisfies WI designation.

ENG 3140. Native American and Indigenous Literatures. Units: 3

A consideration of the oral traditions and literary works of diverse tribal nations. This course specifically attends to the historical, political, and cultural contexts of Native American creative expression. Satisfies GE C4/UD-3, DI, WI designations, World Cultures and Diversity pathway.

ENG 3150. Studies in a Literary Genre. Units: 3

Intensive study of a selected genre. May be repeated for up to 15 units as topics change.

ENG 3190. Studies in Literary Diversity. Units: 3

Intensive study of literature which reflects diversity, especially of race, gender, sexual orientation, class or culture. May be repeated for credit as topics change. Formerly ENG 319.

ENG 3200. Literature for Children and Young Adults. Units: 3

Analysis of, and approaches to, literature for children, adolescents and young adults; emphasis on genre conventions, literary and cultural aspects, and methods for evaluating, selecting and teaching books for readers from preschool through YA age. Satisfies GE C4/UD-3, DI designation.

ENG 3210. Language, Thought, and Culture. Units: 3

Investigation of the interconnectness of language, thought, and culture. Using a cross-linguistic, cross-cultural approach, examines how language both shapes and reflects thought and cultural practice. Satisfies WI designation.

ENG 3220. English Grammar. Units: 3

Study and analysis of grammatical structures of English, focusing on their forms, meanings, and uses. Formerly offered as ENG 420.

ENG 3230. Chicana/o Literature. Units: 3

Selected literature by and about Mexican Americans. Emphasis on the uniqueness of the voices that collectively define Chicana/o literature and on the formal and thematic characteristics of that literature. Formerly ENG 323.

ENG 3240. Studies in Literary Topics. Units: 3

Study of a selected topic in literature. Satisfies WI designation. May be taken 5 times for credit as topics change.

ENG 3250. Asian American Literature. Units: 3

Selected literature by and about Asian Americans. Emphasis on the uniqueness of the voices that collectively define Asian American literature and on the formal and thematic characteristics of Asian American texts.

ENG 3260. Caribbean Literature. Units: 3

Selected literature by and about Caribbean people. Emphasis on the uniqueness of the voices that collectively define Caribbean literature and on the formal and thematic characteristics of Caribbean texts.

ENG 3280. Disability Literature. Units: 3

Selected literature by and about people with disabilities. Emphasis on the uniqueness of the voices and experience that collectively define literature by people with disabilities and on the formal and thematic characteristics of these texts.

ENG 3290. Introduction to Literacy and Writing Studies. Units: 3

Examination of literacy as a historically and socially mediated set of values and practices, with specific consideration of how literacy functions in specific communities. Introduces students to related theories of writing and language use. Formerly ENG 329.

ENG 3300. Tutoring Writing: Theory and Practice. Units: 3

Study of theories and methods for tutoring writing in college, secondary schools, and community contexts. Those completing this course with a grade of "B" or better are eligible to participate in campus writing tutoring programs. Satisfies WI designation.

ENG 3310. Child Language and Literacy Development. Units: 3

Examination of how children acquire language and literacy. Attends to linguistic, cognitive, and social factors shaping children's acquisition processes. To enroll in this course in the fall semester, students must be admitted to the Minor in Speech-Language Pathology or the Speech-Language Pathology Master's Preparatory Certificate, or receive permission from the instructor. The course is open to all eligible students in the spring semester. Equivalent to CD/CAFS 3305, credit may not be awarded for both courses.

ENG 3320. Second Language Acquisition. Units: 3

Examination of linguistic, psychological, and social aspects of second language acquisition. Considers implications for second language teaching. Formerly ENG 312.

ENG 3330. Myth and Epic. Units: 3

Myths and epics as they appear in folklore and classical literature, emphasizing their relationship to later Western literature. Formerly 333.

ENG 3350. Studies in the Novel. Units: 3

Studies in the novel with emphasis on close reading of specific texts. Formerly ENG 335.

ENG 3360. Women Writers. Units: 3

Literary analysis of selected works by women writers, with special emphasis on historical and contemporary issues in women's lives. Formerly 336.

ENG 3390. African American Literature. Units: 3

Selected literature by and about African Americans. Emphasis on the uniqueness of the voices that collectively define African American literature from the oral tradition to the present and on the formal and thematic characteristics of African American texts. Formerly ENG 339.

ENG 3400. Analysis of Environmental Discourse. Units: 3

Analysis of contemporary arguments related to sustainability, environmental justice, and global climate change issues. Examines how political, popular, cultural, and academic discourses in writing and in film shape environmental consciousness and inform attitudes towards, and participation in, environmental advocacy and activism. Satisfies GE C4/UD-3, G, WI designations, Environmental Sustainability pathway.

ENG 3410. Environmental Literature. Units: 3

Intensive study of environmental literature. Emphasis on critical consideration of environmental themes, issues, and concerns treated within literary works across historical periods, aesthetic movements, geographical regions, and genres. Satisfies GE C4/UD-3, G, WI designations, Environmental Sustainability pathway.

ENG 3470. Writing for Performance. Units: 3

Students acquire the essential creative writing skills for dramatic storytelling. Classroom exercises will culminate in students writing scripts for stage productions and dramatic texts for digital and multi-media production.

ENG 3500. Literary Movements: Aesthetics and Craft. Units: 3

Intensive study of varying approaches to the reading and writing of prose, poetry, and related literary genres. Emphasis on narrative and poetic theories, techniques, and strategies to help students define their own sensibilities within larger creative writing communities. Satisfies WI designation.

ENG 3510. History of the English Language. Units: 3

Study of the development of the English language from its beginnings to the present. Examines changes in English grammar, vocabulary, and pronunciation within historical contexts. Formerly ENG 422.

ENG 3520. Creative Writing in Specialized Genres. Units: 3

Workshop in writing in a specialized genre or genres, with discussion of student writing and of exemplary works by established writers. May be taken again for up to 15 units as topics change. Satisfies GE WI designation.

ENG 3530. Introduction to Computational Linguistics. Units: 3

Semester Prerequisite: ENG 3110 or consent of the instructor

Study of the computational methods used to model natural language in both its spoken and written forms. Examines how linguists use computational tools to address linguistic questions, as well as how practical language-engineering problems are addressed using a variety of language technologies. Introduces students to Python, a programming language used in computational linguistics. No prior knowledge of programming is required.

ENG 3600. Studies in Writing. Units: 3

Quarter Prerequisite: Upper-division writing requirement or consent of instructor

Study of a selected topic in writing studies. May be taken for up to 6 units as topics change. Formerly Eng 308.

ENG 3610. Studies in Literacy. Units: 3

Study of a selected topic in literacy studies. May be taken for up to 6 units as topics change.

ENG 3620. Studies in Rhetoric. Units: 3

Study of a selected topic in rhetoric studies. May be taken two times for up to six units as topics change.

ENG 3700. Turning Points in Literary History. Units: 3

Seminar on the perception and expression of major cultural transitions through imaginative literature. Explores literature not only as a record of the impact of big ideas, but also as an agent for communicating innovative thought and changing culture and values. Satisfies GE C4/UD-3, WI designation, Big Ideas that Change the World: Exploring Ideas, Innovations, Discoveries pathway.

ENG 3750. Studies in Literary Theory. Units: 3

Survey of major issues in literary theory. Formerly ENG 385.

ENG 3991. Community Service Project. Unit: 1

Semester Prerequisite: Consent of instructor or departmental approval of a written application submitted in advance of the semester in which the course is to be taken

Application of previously learned skills in the area of English to academically related tasks in such agencies as governmental, social services and educational institutions. May be taken for up to 6 units of community service project credit. Graded credit/no credit. Formerly ENG 399A.

ENG 3992. Community Service Project. Units: 2

Semester Prerequisite: Consent of instructor or departmental approval of a written application submitted in advance of the semester in which the course is to be taken

Application of previously learned skills in the area of English to academically related tasks in such agencies as governmental, social services and educational institutions. May be taken for up to 6 units of community service project credit. Graded credit/no credit. Formerly ENG 399B.

ENG 3993. Community Service Project. Units: 3

Semester Prerequisite: Consent of instructor or departmental approval of a written application submitted in advance of the semester in which the course is to be taken

Credit for applying previously learned skills in the area of English to academically related tasks in such agencies as governmental, social services and educational institutions. May be taken for up to 6 units of community service project credit. Graded credit/no credit.

ENG 4010. English Literature of the Middle Ages. Units: 3

Lyric, drama, prose and verse narrative from the beginnings of English literature through Malory. Formerly ENG 401.

ENG 4030. English Literature of the Tudor/ Stuart Era. Units: 3

Poetry, prose and drama from the Tudor and Stuart eras. Formerly ENG 403.

ENG 4060. Seventeenth Century Literature. Units: 3

English prose and poetry from Bacon through Milton. Formerly ENG 406.

ENG 4090. English Literature of the Restoration and Eighteenth Century. Units: 3

English poetry and prose of the Restoration and eighteenth century. Formerly ENG 409.

ENG 4120. Romantic Literature. Units: 3

Close study of eighteenth- and nineteenth-century British Romanticism, broadly conceived, with attention to major Romantic writers and relevant cultural contexts. Formerly ENG 412.

ENG 4150. Victorian Literature. Units: 3

Close study of Victorian literature and culture including major authors. Formerly ENG 415.

ENG 4170. Poetry Writing Workshop. Units: 3

Workshop in poetry writing; discussion of student writing and exemplary texts by established poets. May be taken for up to 6 units of credit. Formerly ENG 417.

ENG 4180. Fiction Writing Workshop. Units: 3

Workshop in fiction writing; discussion of student writing and exemplary texts by established fiction writers. May be taken for up to 6 units of credit. Formerly ENG 418.

ENG 4400. Studies in a Literary Period or Movement. Units: 3

Intensive study of literature within historical and/or cultural contexts. May be taken for up to 15 units as topics change. Formerly ENG 440.

ENG 4410. Studies in a Major Author or Authors. Units: 3

Intensive study of a selected author or authors. May be taken five times for 15 units as topics change.

ENG 4420. Modern Poetry. Units: 3

Poetry in English from the late nineteenth century to World War II. Formerly ENG 442.

ENG 4430. Contemporary Poetry. Units: 3

Poetry in English from World War II to the present. Formerly ENG 443.

ENG 4470. Modern Fiction. Units: 3

Fiction in English from 1900 through World War II. Formerly ENG 447.

ENG 4480. Contemporary Fiction. Units: 3

Fiction in English from World War II to the present. Formerly ENG 448.

ENG 4630. Advanced Studies in Literary Topics. Units: 3

Advanced study of a topic in literature. May be taken again for credit as topics change. Formerly ENG 463.

ENG 4750. Shakespeare and Renaissance Drama. Units: 3

Study of the comedies, histories, tragedies and late romances of Shakespeare in the context of Renaissance drama. Formerly ENG 475.

ENG 5010. Media Performance Practicum. Units: 3

Quarter Prerequisite: Consent of instructor

Practical application of writing, performance, and production skills. The practicum course is designed for students interested in writing scripts, performing, and producing for radio shows, online and other social media outlets. May be taken for up to 6 units of credit. Graded credit/No Credit. Formerly ENG 501.

ENG 5020. English Study Abroad. Units: 3

Research project based on traveling or living in an English-speaking country. Research for the project will be completed in the country of choice. When study is associated with an academic program, copies of grades, syllabus and submitted work may substitute for research project. May be taken for up to 6 units. Graded credit/no credit.

ENG 5030. English Practicum. Units: 3

This course allows students to apply theoretical, creative, and scholarly knowledge to a practical experience or project. Such projects may be carried out in a conventional classroom setting, or at/or in collaboration with an institution such as a government agency or local community organization. The class will meet regularly to develop and analyze student projects. May be taken for up to six units.

ENG 5040. Theory & Practice of Tutoring Writing. Units: 3

Study of theories and methods for tutoring writing in college, secondary schools, and community contexts, and introduction to contemporary writing center studies, including writing center theory, scholarship, research, and practice. Formerly offered as Eng 3300 or Eng 6300.

ENG 5100. Teaching English in the Secondary Schools. Units: 3

Semester Prerequisite: Junior class standing

English as a secondary school subject including language, literature, and composition. Emphasis on theories and practices associated with reading, writing, and assessment. Formerly ENG 510.

ENG 5110. Creative Writing in the Secondary Classroom. Units: 3

Semester Prerequisite: Consent of instructor

Advanced methods for teaching the techniques of creative writing. Focus on development of a portfolio of teaching material and digital and media literacy as related to creative writing. Requires a minimum six-hour field component. May be taken again for credit as topics change. Formerly ENG 511.

ENG 5110B. Creative Writing in the Secondary Classroom B. Units: 3

Semester Prerequisite: Consent of instructor
Advanced methods for teaching the techniques of creative writing, focusing primarily on fiction and nonfiction. Focus on the development of a portfolio of teaching material and on digital and media literacy as they relate to creative writing. Requires a minimum six-hour field component.

ENG 5120. Literary and Cultural Criticism in the Public Sphere. Units: 3

Advanced study and production of literary criticism written for a public audience.

ENG 5130. Advanced Creative Writing in Specialized Genres. Units: 3

Advanced workshop in writing in a specialized genre, with discussion of student writing and of exemplary works by established writers. May be taken again for up to 15 units as topics change. Formerly ENG 513.

ENG 5140. Community-Based Writing. Units: 3

Study of a selected topic in community-based writing and literacy with a focus on the practice, teaching and/or learning of writing in non-university contexts. Includes attention to the ethics of writing and/or teaching within the given context(s). Requires a minimum ten-hour field component. May be taken for up to 6 units as topics change.

ENG 5150. Senior Seminar in Literature. Units: 3

Advanced study of a selected literary topic, including consideration of critical theory and methodology. May be taken five times for 15 units as topics change. Satisfies WI designation. Formerly ENG 515.

ENG 5160. Professional Pathways for English Majors. Units: 3

Preparation of English majors for various career paths. Guides students in reflecting on expertise they have gained in the English B.A. and how to translate that expertise for the workplace, graduate study and/or other professional contexts. Graded credit/no credit.

ENG 5170. Honors Project. Units: 3

Semester Prerequisite: B+ grade point average in the English major
Preparation of a piece of graduate-level writing (which may be an expansion of one of the student's papers or other work) to be presented at an honors colloquium. Required attendance at honors/research colloquia. B+ grade point average in the English major required. Graded credit/no credit. Formerly ENG 517.

ENG 5180. Research Project. Units: 3

Semester Prerequisite: Consent of Instructor
Preparation of a piece of graduate-level writing (which may be an expansion of one of the student's papers or other work) to be presented at an honors colloquium. Required attendance at honors/research honors colloquia. Graded credit/no credit.

ENG 5190. Creative Writing: Thesis and Performance. Units: 3

Semester Prerequisite: Completion of ENG 3500 and ENG 5130, approval of a written application submitted in advance of the semester in which the course is to be taken, and consent of instructor
A culminating experience for English majors in Creative Writing concentration, with a focus on revision of original student work for senior project and varying approaches to the performance of student work. Students may focus on their specialization in creative writing or select a project that is multidisciplinary and/or interdisciplinary in scope.

ENG 5210. Introduction to Speech-Language Pathology and Audiology. Units: 3

Survey of various language and communication disorders. Offers an overview of communication sciences and disorders as a field. To enroll in this course, students must be admitted to the Minor in Speech-Language Pathology or the Speech-Language Pathology Master's Preparatory Certificate, or receive permission from the instructor. Department consent required.

ENG 5220. Language and Speech Science. Units: 3

Semester Prerequisite: Must be admitted to the Minor in Speech-Language Pathology or the Speech-Language Pathology Master's Preparatory Certificate, or receive permission from the instructor
Introduction to aspects of speech and language, including those relevant to communicative disorders. Particular emphasis on articulatory, perceptual, and acoustic properties of speech sounds, and principles of language analysis.

ENG 5230. Grammar and Corpus Linguistics. Units: 3

Semester Prerequisite: ENG 3110 and ENG 3220, or consent of instructor

Examination of English grammatical constructions through corpus linguistics, an approach that uses large digitized databases of language and particular methods and tools for analyzing linguistic data.

ENG 5240. Sociolinguistics. Units: 3

Semester Prerequisite: ENG 3110 or consent of instructor. Quarter Prerequisite: ENG 311 and ENG 420
Examination of language use in a variety of communities and by a variety of speakers, and survey of the major issues and divisions in sociolinguistics, including social and regional language varieties, interactional sociolinguistics, the relationship of language and culture, multilingualism, code-switching, gender, and language change. Formerly ENG 524.

ENG 5250. Child Language Disorders. Units: 3

Overview of child language disorders associated with specific language impairment, autism spectrum disorder, brain injuries, and other genetic and environmental factors. Discusses assessment and intervention approaches for children. To enroll in this course, students must be admitted to the Minor in Speech-Language Pathology or the Speech-Language Pathology Master's Preparatory Certificate, or receive permission from the instructor. Department consent required.

ENG 5260. Phonetics and Phonology. Units: 3

Study of speech sounds and sound patterns, with particular emphases on broad and narrow phonetic transcription; acoustic analysis of vowels, consonants, prosody and voice quality; and examination of sociophonetic variation. To enroll in this course, students must be admitted to the Minor in Speech-Language Pathology or the Speech-Language Pathology Master's Preparatory Certificate, or receive permission from the instructor. Department consent required.

ENG 5270. Studies in Language and Linguistics. Units: 3

Intensive study in selected topics in linguistics or language. May be taken for up to 9 units as topics change.

ENG 5280. Special Topics in AI and Humanities. Units: 3

Intensive study of selected topics in Humanities and artificial intelligence. May be taken three times for 9 units as topics change.

ENG 5290. Anatomy and Physiology of the Speech and Hearing Mechanism. Units: 3

Anatomy and physiology of the speech and hearing mechanism, including processes of respiration, phonation, articulation, resonance and hearing.

ENG 5300. Creative Nonfiction. Units: 3

Advanced-level writing workshop exploring historical and contemporary approaches to literary nonfiction, including but not limited to memoir, diary, autobiography, personal essay, and lyric essay. Students generate their own creative works and participate in critical workshop discussions. May be taken 3 times for a total of 9 units.

ENG 5310. Advanced Linguistic Analysis. Units: 3

Semester Prerequisite: ENG 3110 or consent of the instructor
Study of forms of linguistic analysis, focusing primarily on advanced phonological, morphological, syntactic, and semantic analysis. Applies analytical frameworks to linguistic datasets across languages.

ENG 5320. Natural Language Processing for Computational Linguistics. Units: 3

Semester Prerequisite: ENG 3110 and ENG 3530
Study of methods of natural language processing, as well as their theoretical foundations and applications for computational linguistics. Introduces Python-based programming toolkits (e.g., NLTK, Spacy, and Hugging Face) as well as NLP algorithms and the linguistic phenomena that they model.

ENG 5430A. Literary Production I. Units: 3

Semester Prerequisite: Consent of Instructor
Throughout the semester, students solicit, select, edit, proof-read, and arrange poems, short stories, artwork, and plays for a new issue of a literary journal or similar production. Theories and methods of literary circulation and publication addressing social, political, and aesthetic issues of literary production. Formerly ENG 543A.

ENG 5430B. Literary Production II. Units: 3

Semester Prerequisite: Consent of Instructor
Throughout the semester, students solicit, select, edit, proof-read, and arrange poems, short stories, artwork, and plays for a new issue of a literary journal or similar production. Theories and methods of literary circulation and publication addressing social, political, and aesthetic issues of literary production. Formerly ENG 543B.

ENG 5520. Methods and Procedures in Speech-Language Pathology. Units: 3

Overview of the procedures and issues involved in speech-language pathology practice, and exploration of research methods including study design, measurement, and evaluation of clinical data.

ENG 5530. Fluency and Speech Sound Disorders. Units: 3

Survey of causes, characteristics, assessment, and treatment of stuttering, phonological, and articulation disorders.

ENG 5540. Neurology and Neurogenic Communication Disorders. Units: 3

Overview of the relationship between the brain and language. This course will cover the neuroanatomy and neurophysiology of speech, language, hearing and swallowing and the characteristics and assessment of neurogenic language disorders including aphasia, dysarthria, and apraxia.

ENG 5550. Introduction to Voice Disorders. Units: 3

Introduction to the etiology, symptomatology, and clinical assessment of functional and organic voice disorders in children and adults. Reviews the anatomy and physiology of normal voice production. Considers multicultural issues.

ENG 5560. Cultural and Linguistic Diversity in Speech-Language Pathology. Units: 3

Study of cultural and linguistic diversity in the context of speech-language pathology, including theory and research. Discussion of typical and atypical bilingual and second language acquisition, as well as examination of service delivery for diverse clients.

ENG 5570. Audiology & Audiometry. Units: 3

Study of anatomy and physiology of the ear, as well as the central auditory processing system. Considers characteristics, assessment, and management of various hearing disorders.

ENG 5600. Studies in Professional Writing. Units: 3

Semester Prerequisite: ENG 3070
Study of a selected topic in professional writing with a focus on theories and practice of writing in non-academic contexts. Includes attention to the ethics of writing within the given context(s). May be taken two times for six units as topics change.

ENG 5651. Special Studies in Writing. Unit: 1

Semester Prerequisite: Consent of instructor. Quarter Prerequisite: consent of instructor
Studies in particular topics in writing, such as assessment, learning theory and research on the teaching of writing. May be taken for up to 6 units of Special Studies in Writing credit. Formerly ENG 565.

ENG 5652. Special Studies in Writing. Units: 2

Quarter Prerequisite: Consent of instructor
Studies in particular topics in writing, such as assessment, learning theory and research on the teaching of writing. May be taken for up to 6 units in Special Studies in Writing credit. Formerly ENG 566.

ENG 5700. Speech-Language Pathology Assistant Practicum. Units: 3

Semester Prerequisite: ENG 5520, B+ or better in upper-division SLP coursework completed to date or permission of instructor, application submitted to SLP Coordinator
Seminar in professional topics for Speech-Language Pathology Assistants such as ethics, supervision, scope of practice, safety, and patient confidentiality. Minimum of 100 hours (80 direct hours; 20 indirect hours) of supervised fieldwork at an approved site.(Contact the SLP Coordinator for more details). Department consent required.

ENG 5751. Internship in English. Unit: 1

Semester Prerequisite: Approval of Department Chair
Supervised learning experience applying English-related skills in a work setting. A total of 6 units of internship credit may be applied toward graduation. Graded credit/no credit. Generally assumes 30 hours of work/study per unit of credit. Consent required. Formerly ENG 575B.

ENG 5752. Internship in English. Units: 2

Semester Prerequisite: Approval of Department Chair
Supervised learning experience applying English-related skills in a work setting. A total of 6 units of internship credit may be applied toward graduation. Graded credit/no credit. Generally assumes 30 hours of work/study per unit of credit. Consent required. Formerly ENG 575C.

ENG 5753. Internship in English. Units: 3

Semester Prerequisite: Approval of Department Chair
Supervised learning experience applying English-related skills in a work setting. A total of 6 units of internship credit may be applied toward graduation. Graded credit/no credit. Generally assumes 30 hours of work/study per unit of credit. Consent required. Formerly ENG 575D.

ENG 5754. Internship in Computational Linguistics or AI. Units: 3

Supervised learning experience involving the application of computational linguistics or artificial intelligence in a work setting. A total of 6 units of internship credit may be applied toward the program. Graded credit/no credit. Generally assumes 30 hours of work/study per unit of credit.

ENG 5951. Independent Study in English. Unit: 1

Semester Prerequisite: Department Consent
Independent study of selected themes, figures, and areas in English. May be taken for up to 6 units of independent study credit. Consent required. Formerly Eng 595B.

ENG 5952. Independent Study in English. Units: 2

Semester Prerequisite: Department consent
Independent study of selected themes, figures, and areas in English. May taken for up to 6 units of independent study credit. Consent required. Formerly Eng 595C.

ENG 5953. Independent Study in English. Units: 3

Semester Prerequisite: Department Consent
Independent study of selected themes, figures, and areas in English. May be taken for up to 6 units of independent study credit. Consent required. Formerly Eng 595D.

ENG 6000. Critical Approaches to Literature. Units: 3

Quarter Prerequisite: ENG 385 or consent of instructor
Study and practice of various critical approaches after the New Criticism, such as deconstructionism, feminism, reader response, and new historicism, with particular attention to their assumptions about the meaning and function of literature. Formerly ENG 600.

ENG 6010. Seminar in a Literary Period. Units: 3

Advanced study in a literary period. May be taken 3 times for a total of 9 units.

ENG 6020. Seminar in a Literary Genre. Units: 3

Advanced study of a selected genre. May be taken 3 times for a total of 9 units.

ENG 6030. Seminar in a Literary Theory. Units: 3

Advanced study in special topics in literary theory and criticism. May be taken 3 times for a total of 9 units.

ENG 6050. Special Topics in Applied Linguistics & TESL. Units: 3

Seminar in particular topics in applied linguistics and/or English language teaching. May be repeated for credit as topics change. Formerly ENG 605.

ENG 6090. Cultures of Research in English & Writing Studies. Units: 3

Critical study of disciplinary approaches to research in the fields of composition, linguistics, and literature, with attention to scholarly identities, research methods, research ethics, and research as knowledge production. This course satisfies the writing requirement for graduate candidacy for the M.A. in English and Writing Studies. Formerly ENG 609.

ENG 6100. Clinical Practicum I. Unit: 1

Supervised clinical experience with children and adults with speech and/or language impairments. May be taken 3 times for up to 3 units.

ENG 6120. Contemporary Composition and Discourse Theory. Units: 3

Examination of major texts and movements in contemporary composition and discourse theory. Formerly ENG 612.

ENG 6140. Language Disorders I: Infancy to Preschool. Units: 3

Theory, research, and methodology in assessing and treating various kinds of language disorders in children from infancy through the preschool years. Addresses current definitions, etiology, and relevant features of disordered language.

ENG 6150. Discourse, Cognition, and Society. Units: 3

Seminar in theoretical approaches to the analysis of discourse from social, pragmatic, and cognitive perspectives. Formerly ENG 615.

ENG 6160. Basic and Applied Research Methods in Speech-Language Pathology. Units: 3

Research methods, design, and analysis within evidence-based practice in speech-language pathology. Critical evaluation of research and application of findings to clinical practice.

ENG 6170. Neurogenic Language and Cognition Disorders I. Units: 3

Etiology, characteristics, assessment, and treatment of neurologically-based language and cognitive disorders in adults, focusing on aphasia, right hemisphere brain damage, traumatic brain injury, and dementia.

ENG 6180. Articulation and Phonological Disorders. Units: 3

Causes, characteristics, assessment, and treatment of childhood articulation and phonological disorders. Considers theory and research in speech sound disorders in the context of language and dialect diversity.

ENG 6190. Multilingualism and Second Language Acquisition. Units: 3

Seminar in the study of linguistic, cognitive, and social approaches to learning and using a second language or additional languages. Formerly ENG 619.

ENG 6200. Clinical Practicum II. Units: 2

Semester Prerequisite: ENG 6100
Supervised clinical experience with children and adults with speech and/or language impairments. May be taken 3 times for up to 6 units.

ENG 6210. Approaches to Teaching Imaginative Writing. Units: 3

Traditional and contemporary approaches to teaching imaginative writing; emphasis on means of encouraging different styles and modes of expression. Formerly ENG 621.

ENG 6220. Motor Speech Disorders. Units: 3

Etiology, neuroanatomy, and symptoms of common neurological speech disorders, emphasizing dysarthria and apraxia of speech. Addresses assessment and treatment, considering the impact of multicultural and psychosocial factors on rehabilitation.

ENG 6230. Dysphagia. Units: 3

Examination of swallowing and swallowing disorders, covering typical and atypical anatomy and physiology across the lifespan. Clinical and instrumental assessment techniques, focusing on common patient populations and hands-on application of management and treatment methods.

ENG 6240. Language Disorders II: School-Age to Adolescence. Units: 3

Semester Prerequisite: ENG 6140
Examination of language disorders in school-aged children, covering both receptive and expressive aspects, including reading and writing disorders. Explores typical development, impairment models, assessment, and treatment, addressing current definitions, causes, and relevant features of disordered language.

ENG 6260. TESL Methods. Units: 3

Seminar in methods for teaching English as a Second Language in various instructional contexts. Formerly ENG 626.

ENG 6270. Neurogenic Language and Cognition Disorders II. Units: 3

Semester Prerequisite: ENG 6170
Etiology, characteristics, assessment, and treatment of neurologically-based language and cognitive disorders in adults, with a focus on stroke.

ENG 6300. Writing Center Studies. Units: 3

Advanced study of major texts and issues in contemporary writing center studies, including writing center theory, scholarship, and research; tutoring practice; and administration. Those completing this course with a grade of "B" (3.0) or better are eligible to apply to participate in campus writing tutoring programs. Formerly ENG 630.

ENG 6310. Seminar in Public and Professional Discourses. Units: 3

Quarter Prerequisite: ENG 612 or consent of instructor
Advanced study in theory, scholarship, and practice in public and professional writing and discourses. May be taken 4 times for a total of 12 units as topics change. Formerly ENG 631.

ENG 6330. Seminar in Rhetorics. Units: 3

Advanced study in a specific area of rhetorical history and theory. May be taken 4 times for up to 12 units as topics change. Formerly ENG 633.

ENG 6340. Seminar in Literacy Studies. Units: 3

Advanced study in a specific area of literacy studies. May be taken four times for a total of 12 units as topics change. Formerly ENG 634.

ENG 6350. Clinical Practicum III. Units: 4

Semester Prerequisite: ENG 6200
Supervised clinical experience with children and adults with speech and/or language impairments. May be taken 2 times for up to 8 units.

ENG 6360. Counseling Tools in Speech-Language Pathology. Units: 3

Interviewing and counseling techniques for individuals, families, and groups within the contexts of schools and allied health fields. Considers implications of multicultural and linguistic diversity for effective counseling, as well as theoretical, practical, ethical, and professional issues.

ENG 6370. Special Topics in Speech-Language Pathology. Units: 3

Seminar in particular topics in speech-language pathology. May be taken 2 times as topics change for up to 6 units.

ENG 6380. Directed Studies in Speech-Language Pathology. Units: 3

Advanced independent study in speech-language pathology under the supervision of a faculty member. May be taken 2 times for up to 6 units.

ENG 6400. Advanced Clinical Practicum I. Units: 4

Semester Prerequisite: ENG 6350
Advanced supervised clinical experience with children and adults with speech and/or language impairments. May be taken 2 times for up to 8 units.

ENG 6420. Voice, Resonance and Fluency. Units: 3

Theory, research, and methodology in assessing and treating various kinds of fluency, voice and resonance disorders.

ENG 6500. Advanced Clinical Practicum II. Units: 4

Semester Prerequisite: ENG 6400
Advanced supervised clinical experience with children and adults with speech and/or language impairments. May be taken 2 times for up to 8 units.

ENG 6510. Seminar in a Literary Topic. Units: 3

Advanced study in particular topics in literature. May be taken 3 times for 9 total units as topics change. Formerly ENG 651.

ENG 6520. Aural Rehabilitation. Units: 3

Principles of amplification, cochlear implants, sound-field acoustics, and vestibular rehabilitation in the context of aural rehabilitation. Theoretical and applied aspects, addressing the impact of hearing loss on communication, intervention techniques for various populations, counseling processes, and prosthetic management.

ENG 6530. Augmentative and Alternative Communication. Units: 3

Augmentative and alternative communication (AAC) systems for individuals with complex communication needs, including contemporary microcomputer hardware and software used in speech-language pathology and audiology. Covers topics in AAC, assistive technology, assessment and treatment, and specific considerations for pediatric and adult patients.

ENG 6543. Speech-Language Pathology Thesis. Units: 3

Graduate research in speech-language pathology culminating in a written thesis. Graded credit/no credit. Department consent is required.

ENG 6550. Speech-Language Pathology Comprehensive Exam. Units: 0

Assessment of the student's ability to integrate knowledge of speech-language pathology, show critical and independent thinking, and demonstrate mastery of the subject matter. Graded credit/no credit. Should be taken concurrently with ENG 6553. Department consent required.

ENG 6553. Speech-Language Pathology Comprehensive Exam Preparation. Units: 3

Seminar to prepare students for assessment of their ability to integrate the knowledge of speech-language pathology, show critical and independent thinking, and demonstrate mastery of the subject matter, culminating in the comprehensive exam. Graded credit/no credit. Department consent is required.

ENG 6570. Seminar in Teaching Writing. Units: 3

Advanced study of a specific area of composition theory and pedagogy as practiced: in institutional contexts such as writing across the curriculum programs, online courses, community sites, or prisons; in specific sites of pedagogical intervention, such as student texts; or from specific theoretical or pedagogical traditions, such as queer pedagogy, liberatory pedagogy, or translingual theory. May be taken 4 times for a total of 12 units as topics change. Formerly ENG 657.

ENG 6580. Multimodal Writing and the Public Sphere. Units: 3

Advanced study of writing across multiple media and modes, including examination of theoretical, ethical, and pedagogical issues and engagement in composing practices across media and modes. Formerly ENG 658.

ENG 6590. Approaches to Teaching College-Level English Literature. Units: 3

Study of varied methods and approaches to the teaching of literature in English at the college level. Formerly ENG 659.

ENG 6600. Approaches to Teaching Writing. Units: 3

Study of the theories, principles, and methods of teaching writing. Formerly ENG 660.

ENG 6620. Sites of Praxis. Units: 3

Semester Prerequisite: ENG 6000, ENG 6120, ENG 6150; and approval of the graduate coordinator. Quarter Prerequisite: ENG 600, ENG 612, ENG 615; and approval of the graduate coordinator
Seminar in the applications of English and Writing Studies to particular workplace and classroom settings, including ethnographic approaches to workplace cultures, attention to workplace genres, and ways of approaching and responding to writing in the workplace.

ENG 6660. Seminar in English and Writing Studies Pedagogies. Unit: 1

Advanced studies in particular topics in teaching English and writing studies at the college level. May be repeated for credit as topics change. May be taken four times for a total of four units. Formerly ENG 666.

ENG 6751. Internship in English and Writing Studies. Unit: 1

Semester Prerequisite: ENG 6000, ENG 6120, ENG 6150, ENG 6620; and approval of the graduate coordinator. Prerequisite: ENG 600, ENG 612, ENG 615, and approval of the graduate coordinator
A practical application of theory and research in English and Writing Studies. Includes supervised work experience. May be repeated once for credit.

ENG 6951. Graduate Independent Study. Unit: 1

Semester Prerequisite: A minimum overall grade point average of 3, consent of instructor, and approval of the graduate coordinator, proposals must be submitted on a standard application filed in advance of the semester in which the course is to be taken. Quarter Prerequisite: A minimum overall grade point average of 3, consent of instructor, and approval of the graduate coordinator, proposals must be submitted on a standard application filed in advance of the quarter in which the course is to be taken
Advanced research on a specific topic, figure, or area in literature, composition and rhetoric, applied linguistics and TESL, pedagogy, or public and professional writing. Formerly ENG 696B. May be taken 2 times for up 2 units.

ENG 6952. Graduate Independent Study. Units: 2

Semester Prerequisite: A minimum overall grade point average of 3, consent of instructor, and approval of the graduate coordinator, proposals must be submitted on a standard application filed in advance of the semester in which the course is to be taken. Quarter Prerequisite: A minimum overall grade point average of 3, consent of instructor, and approval of the graduate coordinator, proposals must be submitted on a standard application filed in advance of the quarter in which the course is to be taken

Advanced research on a specific topic, figure, or area in literature, composition, or linguistics. Formerly ENG 696C. May be taken 2 times for up to 4 units.

ENG 6953. Graduate Independent Study. Units: 3

Semester Prerequisite: A minimum overall grade point average of 3, consent of instructor, and approval of the graduate coordinator, proposals must be submitted on a standard application filed in advance of the semester in which the course is to be taken. Quarter Prerequisite: A minimum overall grade point average of 3, consent of instructor, and approval of the graduate coordinator, proposals must be submitted on a standard application filed in advance of the quarter in which the course is to be taken

Advanced research on a specific topic, figure, or area in literature, composition, or linguistics. Formerly ENG 696D. May be taken up to 2 times for up to 6 units.

ENG 6954. Graduate Independent Study. Units: 4

Semester Prerequisite: A minimum overall grade point average of 3, consent of instructor, and approval of the graduate coordinator, proposals must be submitted on a standard application filed in advance of the semester in which the course is to be taken. Quarter Prerequisite: A minimum overall grade point average of 3, consent of instructor, and approval of the graduate coordinator, proposals must be submitted on a standard application filed in advance of the quarter in which the course is to be taken

Advanced research on a specific topic, figure, or area in literature, composition, or linguistics. Formerly ENG 696E. May be taken 2 times for up to 8 units.

ENG 6970. Thesis Completion. Units: 0

Semester Prerequisite: Advancement to candidacy, approval of the graduate coordinator, and good academic standing

Submission and publication of completed thesis in English composition and rhetoric, literature, public and professional writing, linguistics, applied linguistics, or pedagogy to Graduate Studies for publication. Graded credit/no credit. Students may not enroll in ENG 6970 before their last semester of coursework in the M.A. in English and Writing Studies. Department consent required. Course should be taken concurrently with ENG 6973.

ENG 6973. Thesis Preparation. Units: 3

Semester Prerequisite: Advancement to candidacy, approval of the graduate coordinator, and good academic standing

Seminar in support of graduate research in English composition and rhetoric, literature, public and professional writing, linguistics, applied linguistics, or pedagogy culminating in a written thesis or thesis draft. Graded credit/no credit. Department consent required. Course should be taken concurrently with ENG 6970.

ENG 6980. Comprehensive Exam Completion. Units: 0

Assessment of the students ability to integrate the knowledge of the area, show critical and independent thinking, and demonstrate mastery of the subject matter. Graded credit/no credit. Department consent required. Course should be taken concurrently with ENG 6983.

ENG 6983. Comprehensive Exam Preparation. Units: 3

Semester Prerequisite: Advancement to candidacy, approval of the graduate coordinator, and good academic standing

Seminar to prepare students for assessment of their ability to integrate the knowledge of the area, show critical and independent thinking, and demonstrate mastery of the subject matter culminating in the comprehensive exam. Graded credit/no credit. Department consent required. Course should be taken concurrently with ENG 6980.

ENG 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ENG 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ENG 6992. Continuous Enrollment for Graduate Candidacy Standing. Units: 2

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ENG 6993. Continuous Enrollment for Graduate Candidacy Standing. Units: 3

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ENG 6994. Continuous Enrollment for Graduate Candidacy Standing. Units: 4

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ENG 6995. Continuous Enrollment for Graduate Candidacy Standing. Units: 5

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ENG 6996. Continuous Enrollment for Graduate Candidacy Standing. Units: 6

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

Entrepreneurship (ENTR)

Courses

ENTR 3000. Entrepreneurship and Innovation. Units: 3

Exploration of the key concepts of entrepreneurship and innovation. Examines the sources of new ideas and innovation, how ideas move from mind to market, the facets of the entrepreneurial mindset, and how entrepreneurial models and approaches can be applied in any organizational or societal context.

ENTR 3003. Experiencing Entrepreneurship. Unit: 1

Exploration and examination of entrepreneurship, entrepreneurial characteristics and the entrepreneurial mindset through a variety of immersive experiential and reflective activities.

ENTR 3141. The Improvisational Mind. Units: 3

Development of foundational performance skills essential for success in any fast-paced, unpredictable business environment. Students will focus on developing cognitive flexibility, accessing creativity, exploring ensemble-based collaboration, mastering active storytelling, and honing their unique communication tools. Satisfies GE C4/UD-3; DI designation. Course is offered as ENTR 3141 and TA 3141; credit cannot be awarded for both.

ENTR 4420. Small Business Management. Units: 3

Explores the importance of small business to our economy and examines key competencies needed to manage a small enterprise as owner or manager. Studies issues such as general management, accounting and finance, human relations, marketing, operations, and introduces the nuances and subtleties of these in the small business context. Formerly offered as ENTR 442.

ENTR 5141. Entrepreneurial Improvisation and Creativity. Units: 3

Exploration of improvisation as a tool to frame problems, think creatively, develop compelling presentation skills, and express energy and passion in varied business environments. Course is offered as ENTR 5141 and TA 5141; credit cannot be awarded for both. Department consent required.

ENTR 5155. Business Consulting. Units: 3

Quarter Prerequisite: Senior status, consent of instructor and department
Supervised consulting assignments designed to provide meaningful business assistance to businesses. formerly offered as MGMT 515.

ENTR 5260. Global Entrepreneurship. Units: 3

Entrepreneurial process in a global context as it relates to recognizing ideas, marshaling resources, developing networks and creating the strategy for a new cross-border venture. Formerly offered as MGMT 526.

ENTR 5410. Commercializing Entrepreneurial Innovation. Units: 3

Examines the process of commercializing innovations and emerging technologies using a university-owned/federal lab-owned patent as the primary focus. Emphasis on bridging scientific discovery with entrepreneurial application to understand how to transition early-stage research and development to scalable ventures. Topics include the scientific methodology of entrepreneurship, intellectual property protection, data analytics and visualization, simulations, AI-driven market modeling, licensing, process optimization, and commercialization planning.

ENTR 5430. Ideation and Creative Problem Solving. Units: 3

Examination of the process of generating, developing and evaluating ideas to launch innovative and viable new ventures. Focus on identifying the difference between ideas and opportunities and the role of ideation, observation and creative problem solving. Formerly offered as ENTR 543.

ENTR 5435. Startup Toolbox: Research Essentials for Entrepreneurs. Units: 3

Semester Prerequisite: ENTR 5430
Equips students with essential research skills necessary for successful entrepreneurship. Focus on qualitative and quantitative data analysis techniques to assess startup opportunities, including formal and informal interviews, industry analysis, the use of AI in customer discovery, and the basics of startup financial modeling.

ENTR 5440. Developing the New Venture. Units: 3

Semester Prerequisite: ENTR 5430, ENTR 5435
Introduction to the process of developing a new venture concept. Focus on transitioning ideas into a viable business venture with special emphasis on developing a sustainable business model and a hands-on business planning experience. Cross-listed as NSCI 5440; students cannot receive credit for both.

ENTR 5450. Evidence-Based Resource Planning. Units: 3

Exploration of analytical techniques for identifying, evaluating, and securing resources for scalable ventures. Special emphasis on applying business statistics and data-driven forecasting to develop startup pro forma statements and test critical assumptions. Simulation methods and optimization models are introduced to analyze multiple funding scenarios. Focus on developing skills on data analytics and visualization to communicate resource projections and startup valuation outcomes and examining frameworks for marshaling internal/external resources.

ENTR 5470. Managing a Growing Business. Units: 3

Study of the basic strategy and tactics to manage growing enterprises while still maintaining an entrepreneurial spirit. Examines the role of management decision making, management control systems, short- and long-term planning, and entrepreneurship in managing growing companies. Formerly offered as ENTR 547.

ENTR 5490. Launching the Entrepreneurial Venture. Units: 3

An exploration of the key processes and methods involved in positioning and establishing new enterprises. Formerly offered as ENTR 549.

ENTR 5550. Entrepreneurship in Action: Corporate, Social and Family Business Approaches. Units: 3

An exploration of how entrepreneurial approaches are effectively applied in differing contexts, including large corporations, nonprofit organizations and closely-held family business firms. Focus on understanding the barriers and opportunities to entrepreneurship that are unique to each context through applied case analysis.

ENTR 5755. Internship. Unit: 1

Semester Prerequisite: Consent of college internship coordinator. Quarter Prerequisite: senior standing preferred; consent of instructor and the departments internship coordinator
Supervised work and study in private or public organizations. May be repeated for credit. A total of six units of Jack H. Brown College of Business and Public Administration 5753 or 5755 courses may be applied toward graduation. Graded credit/no credit.

ENTR 5915. Contemporary Topics in Entrepreneurship. Unit: 1

Analysis and discussion of selected topics relevant to entrepreneurship.

ENTR 5930. Contemporary Topics in Entrepreneurship. Units: 3

Analysis and discussion of selected topics relevant to entrepreneurship. Formerly offered as MGMT 590C.

ENTR 5951. Independent Study. Unit: 1

Semester Prerequisite: Junior status, or graduate status
Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Course is cross-listed across different departments within the college.

ENTR 5952. Independent Study. Units: 2

Semester Prerequisite: Junior status, or graduate status
Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Formerly offered as 595B. Course is cross-listed across different departments within the college.

ENTR 5953. Independent Study. Units: 3

Semester Prerequisite: Junior status, or graduate status
Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Formerly offered as 595D. Course is cross-listed across different departments within the college.

ENTR 5955. Independent Study. Unit: 1

Semester Prerequisite: Junior status, or graduate status
Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Course is cross-listed across different departments within the college.

ENTR 5980. Reflective Essay. Units: 0

Submission of a reflective essay based on specified program guidelines. Consent required. Graded credit/no credit. Formerly offered as ENTR 598.

ENTR 6200. Pitching the New Venture. Units: 3

Introduction and exploration of the key concepts and techniques used to effectively position and deliver a concise summary of the opportunity, value proposition, business model, and investment potential of the new venture. Students will develop and pitch a multitude of entrepreneurial narratives for internal (business partners, leadership, management, employees) and external stakeholders (customers, public, investors, lenders).

ENTR 6210. Entrepreneurship and New Ventures. Units: 3

Study of the entrepreneurial process. Focus on the characteristics and mindset of entrepreneurs, ideation and innovation, startup models, risk mitigation, analyzing emerging opportunities, resource creativity, ethics and guerrilla tactics. Formerly offered as ENTR 621.

ENTR 6230. The Science of Opportunity: Data-Driven Recognition and Evidence-Based Evaluation. Units: 3

Semester Prerequisite: ENTR 6210
Emphasis on applying the scientific method within the entrepreneurial framework of opportunity recognition, development, and validation. Focus on learning how to form hypotheses about customer problems, design experiments to test assumptions, collect and analyze data, and refine ideas into viable new venture opportunities.

ENTR 6240. Law and Negotiations for the New Venture. Units: 3

Introduction, exploration and analysis of the key legal, regulatory and policy issues that effect new venture decision-making, negotiations and strategy.

ENTR 6250. New Venture Product Development. Units: 3

Focuses on the development of new venture products using iterative and engineering-informed approaches. Students explore the process of conceptualization, prototyping, testing, and optimization, integrating market requirements with technical feasibility.

ENTR 6960. Entrepreneurial Immersion. Units: 3

Independent graduate research. Working under the supervision of a faculty member, students will synthesize knowledge and demonstrate mastery of new venture assessment techniques to develop and pitch an executable new venture launch plan that is informed by scientific methodology. Focus on rigorous, evidence-based approaches that include advancing concepts beyond evaluation to executing experiments, validating customer needs, testing product feasibility, and refining business model viability. Formerly ENTR 6961 and ENTR 6962.

ENTR 6980. Reflective Essay. Units: 0

Submission of a reflective essay based on specified program guidelines. Formerly offered as ENTR 998. Graded credit/no credit.

ENTR 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 6990 each semester until the culminating experience project is completed and accepted. Students who enroll in 6990 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Course Catalog. Graded credit/no credit.

Education-Reading Education (ERDG)

Courses

ERDG 6100. Foundations of Literacy. Units: 3

Survey of theories of literacy, literacy development and learning, approaches to literacy instruction and assessment. Formerly ERDG 620.

ERDG 6110. Literacy and Language Processes. Units: 3

Language development processes that underlie effective literacy curriculum, including bilingual and English Learner development. Literacy development and reading/ writing processes. Formerly offered as ERDG 627.

ERDG 6120. Literacy Assessment, Intervention and Evaluation. Units: 3

Semester Prerequisite: ERDG 6100
Investigation of literacy assessments, strategies for their use in literacy instruction and early intervention, assessment design. Evaluation for literacy instruction. Meeting the literacy needs of all learners. Formerly offered as ERDG 619.

ERDG 6130. Contemporary Issues and Research in Literacy. Units: 3

Semester Prerequisite: ERDG 6100. Quarter Prerequisite: ERDG 626
Advanced critical and contemporary perspectives affecting literacy and literacy education for grades PreK-12. Understanding and utilizing contemporary research in Literacy. Advanced professional competencies for the literacy leader and educator. Formerly offered as ERDG 656.

ERDG 6140. Technology, Multimodality and Digital Literacies for Educators. Units: 3

Advanced theory, research and classroom practices for integrating technology, multimodality and digital literacies in English Language Arts classrooms.

ERDG 6200. Critical and Cultural Approaches to Literacy. Units: 3

Semester Prerequisite: ERDG 6100. Quarter Prerequisite: ERDG 626
Explores diversity and culture as they affect literacy development and instruction. Using multicultural literature in the literacy curriculum and creating a culture of literacy. Understanding multiple literacies, genres, and modalities as they affect the literacy curriculum. Integrates a critical approach of power and diversity as it impacts literacy. Formerly offered as ERDG 636.

ERDG 6210. Materials, Curriculum and Approaches to Literacy. Units: 3

Semester Prerequisite: ERDG 6100. Quarter Prerequisite: ERDG 627
Investigating, creating and making critical judgments about curriculum approaches and materials, including software and digital resources, appropriate to different theoretical perspectives. Formerly offered as ERDG 637.

ERDG 6220. Practicum in Reading and Literacy. Units: 3

Semester Prerequisite: ERDG 6100, ERDG 6110, ERDG 6120. Quarter Prerequisite: ERDG 619
Applying reading and literacy instructional strategies; implementing, analyzing and interpreting diagnostic assessments; planning for and delivering tutorial and intervention. Formerly ERDG 639.

ERDG 6230. Leadership Roles in Reading and Literacy. Units: 3

Semester Prerequisite: ERDG 6100. Quarter Prerequisite: ERDG 626, 627, 619, 636, 637, 647, and consent of coordinator
Investigation of literacy leadership roles in schools and districts. Includes program planning and evaluation, leadership skills, knowledge of standards-based education, responding to state mandates, analyzing and applying research, meeting the needs of all students. Formerly offered as ERDG 657.

ERDG 6240. Advanced Curriculum Perspectives in Literacy. Units: 3

Examination of theoretical approaches that affect literacy curriculum. Advanced curriculum design. Formerly offered as ERDG 647.

ERDG 6980. Comprehensive Examination. Units: 0

Semester Prerequisite: advancement to candidacy, approval of department, completion of course work in the masters program, and in good academic standing. Quarter Prerequisite: advancement to candidacy, approval of department, completion of course work in the masters program, and in good academic standing
An assessment of the students ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. Graded credit/no credit. Formerly ERDG 999.

Education-Rehabilitiation Counseling (EREH)

Courses

EREH 6615. Introduction to Rehabilitation Counseling. Units: 5

Fundamental processes and practices of rehabilitation counseling including examination and analysis of the historical, philosophical, organizational, economic and legal basis of rehabilitation. Morality and ethics; ethical issues; models and techniques for effective ethical decision-making in personal and professional interactions. Orientation and field visits to community rehabilitation counseling agencies. Three hours of lecture and two hours of activity-based education in the subject area per week are required. Formerly known as EREH 615.

EREH 6616. Medical Aspects of Disability Across the Life Span. Units: 5

Medical aspects of disabilities including implications of disabilities for vocational adjustments and rehabilitation processes across the life span. Theories of learning and human growth/development using life span approach from a rehabilitation counseling perspective. Three hours of lecture and two hours of activity-based education in the subject area per week are required. Formerly known as EREH 616A.

EREH 6617. Counseling Theories and Psychosocial Aspects in Rehabilitation. Units: 5

Quarter Prerequisite: EREH 615 or permission of the program coordinator

Counseling theories application to rehabilitation settings; lab experience working with individuals with disabilities. Psychosocial aspects will examine the physical, mental, gender and cultural characteristics of individuals with disabilities to participate fully in society. Three hours of lecture and two hours of activity per week are required. Formerly known as EREH 656.

EREH 6618. Addictions & Co-Existing Disabilities. Units: 5

This course provides a broad understanding of issues and trends in substance use disorder and behavioral addiction treatment in a multicultural and diverse society with a specific focus on treatment methods that reflect the culture-specific values and treatment needs of clients. Including a focus on medical and psychological consequences, drug classification systems, legislation, and other clinical and public policy issues that may be relevant to the field. Motivational Interviewing counseling techniques will be explored in the lab experience. Three hours of lecture and two hours of activity per week required.

EREH 6619. Counseling Skills - Practicum. Units: 5

Semester Prerequisite: EREH 6617 or consent of program coordinator. Quarter Prerequisite: EREH 657 or consent of instructor

Supervised counseling practice; intensive analysis of counselor ethics, styles, methods. Application of counseling skills, theories and techniques working with individuals with disabilities. Requires three hours of seminar and 1.5 hours of supervision per week. Requires 100 hours of related observational practice with individuals with disabilities. Formerly EREH 667.

EREH 6620. Multicultural Rehabilitation Counseling. Units: 4

Theory and techniques of counseling skills serving diverse populations relating to individuals with disabilities. Analysis of differing socioeconomic, racial, and social backgrounds of individuals with disabilities. The major focus is on building multicultural competencies with cultural, economic, and psychosocial processes relative to people from diverse and underrepresented populations and societies. Formerly known as EREH 655.

EREH 6621. Psychiatric Rehabilitation Diagnosis & Psychopharmacology. Units: 5

This course will explore the history, philosophy, practice, current trends, and issues relevant to psychiatric rehabilitation. Rehabilitation services that develop skills and provide environmental support for individuals with chronic mental illness will be examined. Emphasis will be placed on treatment planning to reach vocational goals and optimal independent functioning for individuals with psychiatric disabilities. This course is intended to cover psychiatric diagnosis, psychopharmacology, and the application of medication to all the major diagnostic categories contained in DSM. Three hours of lecture and two hours of activity-based education in the subject area per week are required. Formerly known as EREH 672.

EREH 6622. Theoretical & Practical Applications of Case Management / Job Placement. Units: 5

Semester Prerequisite: EREH 6619 or consent of program coordinator. Quarter Prerequisite: EREH 615, EREH 616A, EREH 616B and EREH 617 or consent of instructor

Application of methods and techniques of case management / job placement with different client populations in rehabilitation settings. Intensive analysis of counselor ethics, styles, methods. Job analysis, job seeking training skills, placement and follow-up for rehabilitation clients. 3-units lecture, 2-units activity. Formerly EREH 618.

EREH 6623. Theory and Practice of Group Counseling in Rehabilitation. Units: 4

Semester Prerequisite: EREH 6617, 6619, 6620, 6622 or consent of program coordinator. Quarter Prerequisite: EREH 615, 616A, 656 and 657 or permission of program coordinator

Theories and techniques of group counseling in rehabilitation settings with individuals with disabilities. Integration of theory, experience and research in group counseling; ethical and multicultural considerations. Formerly EREH 678.

EREH 6624. Assessment, Research & Program Evaluation. Units: 5

Semester Prerequisite: EREH 6615, 6616, or consent of program coordinator. Quarter Prerequisite: EREH 615, 616A, 616B or consent of instructor

Review of fundamental bases of measurement, criteria for evaluating tests, review of instruments in major categories to assess the functioning abilities and work potential of individuals with disabilities. Introduction to personality, aptitude, achievement measurements. Principles of research design and methods of data collection to facilitate knowledge of rehabilitation research. Program evaluation includes analysis of development and utilization of an agency system in rehabilitation settings with focus on system design, monitoring techniques and service program development. Three hours of lecture and two hours of activity per week required.

EREH 6625. Fieldwork in Rehabilitation Counseling. Units: 6

Semester Prerequisite: Completion of minimum 39 units in the program and/or consent of program coordinator. Quarter Prerequisite: Consent of program coordinator

Field experience in Rehabilitation Counseling. Includes preparation for the Certified Rehabilitation Counselor Examination. Students will take fieldwork in segments of 6 units for a total of 12 units. Students must complete 300 clock hours per semester. Department consent required. Formerly EREH 679.

EREH 6980. Comprehensive Examination in Rehabilitation. Units: 0

Semester Prerequisite: Advancement to candidacy, approval of department, completion of required course work in the masters program and in good academic standing. Quarter Prerequisite: Advancement to candidacy, approval of department, completion of course work in the masters program and in good academic standing
An assessment of the students ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. Students must take the CRC Exam as part of EREH 6980 in order to complete the Rehabilitation Counseling Master's degree program.Formerly EREH 999.

Ethnic Studies (ES)

Courses

ES 1000. Introduction to Ethnic Studies. Units: 3

An introduction to Ethnic Studies as an intellectual, political, methodological framework of rigorous analysis and knowledge making. Students will be introduced to histories of structural and systemic oppressions, including but not limited to white supremacy, antiblack racism and settler colonialism, as well as the histories of resistance that characterize communities and movements led by people of color, in particular Native Americans, African Americans, Asian Americans and Latinx Americans. Satisfies GE F/6.

ES 1000H. Introduction to Ethnic Studies: HONORS SECTION. Units: 3

An Honors Section of the Introduction to Ethnic Studies as an intellectual, political, methodological framework of rigorous analysis and knowledge making. Students will be introduced to histories of structural and systemic oppressions, including but not limited to white supremacy, anti-black racism and settler colonialism, as well as the histories of resistance that characterize communities and movements led by people of color, in particular Native Americans, African Americans, Asian Americans and Latinx Americans. Satisfies GE F/6. Students may not receive credit for both ES 1000 and ES 1000H.

ES 1020. Introduction to Chicana/o/x and Latina/o/x Studies. Units: 3

An interdisciplinary introduction to the intellectual concepts, historical experiences and political movements that define Chicana/o/x and Latina/o/x Studies in the United States.

ES 1100. Introduction to Native Studies. Units: 3

This survey course will cover key historical, political, and philosophical topics that have come to define the field of Native Studies. It centers settler-colonial frameworks to understand historic and contemporary struggles for self-determination and sovereignty.

ES 1400. Race, Class, Gender and Sexuality. Units: 3

Grounded in intersectionality, this introductory course examines the axes of identities that shape lived experiences of people of color -- Native Americans, African Americans, Asian Americans and Latinx Americans -- in the United States. Drawing from a range of interdisciplinary texts, students will critically reflect on the ways power operates in the production of inequalities that are then reproduced, resisted, and transformed through discourses of migration, labor, culture, and belonging. Satisfies GE F/6.

ES 2200. Women of Color Feminisms. Units: 3

Grounded in Ethnic Studies principles, this course explores the theory and practice of Women of Color Feminisms in the United States. By studying the intellectual work of Women of Color from diverse backgrounds through academic texts, literature, and artistic production--including film, zines, visual art, podcasts, and music--students will have exposure to the wide breadth of scholarship that makes up a significant part of the Ethnic Studies canon. Satisfies GE F/6, DI designation.

ES 3000. Research Methods in Ethnic Studies. Units: 3

Semester Prerequisite: ES 1000
Development and implementation of research (quantitative or qualitative) that explores in depth one or more facets of ethnic experience. Satisfies WI designation.

ES 3080. Race, Gender, and Sexuality in Popular Culture. Units: 3

This course uses popular culture as a medium through which to analyze representations and performances of race, gender, and sexuality as well as their intersections in film, music, podcasts, art, literature, and poetry. Through these confrontations, students will question the rewards as well as the limits of the politics of representation and apply their understandings to course assignments and projects that involve direct engagement with their world and worldviews.

ES 3100. Black Feminist Movements. Units: 3

This course is an exploration of transnational Black Feminist Movements in the 19th, 20th and 21st centuries. The focus will be, broadly speaking, on how literatures, theories and coalitional movements created by those who identify as Black women speak to longstanding struggles on social justice and liberation. Satisfies GE F/6.

ES 3140. Native American Feminisms. Units: 3

A survey of topics central to Native Feminist thought and analysis. Students will learn about Native Feminisms theories and frameworks with which to contextualize contemporary struggles for self-determination and sovereignty. The colonial history and the settler colonial present is explored from a gendered perspective. Additional course topics include Indigenous ecofeminisms and ecosexualities as well as Native feminist intellectual production in art, literature, and film.

ES 3190. Queer of Color Critique. Units: 3

This course is an exploration of queer of color critique, an interdisciplinary field that recognizes the always-present intersections between race, gender, and sexuality. Moreover, it is an investigation into the ways in which Ethnic Studies has, in its framework, always already have been queer, always already have queered.

ES 3201. Race, Ethnicity and Immigration in the United States. Units: 3

This course explores the history of immigration and migration in the United States through the lens of race and ethnicity. Additional themes include citizenship, law, nationalism, violence, gender, sexuality, labor, and globalization. Offered as ES 3201 and HIST 3201, students may not receive credit for both.

ES 3390. Black Studies. Units: 3

This course is an exploration of Black Studies, providing both a historical and cultural overview, as well as an examination of how this interdisciplinary field has shaped numerous conversations on race, ethnicity, sexuality, gender, class and nation, both within the United States and in a broader, transnational context.

ES 3501. Politics of Multiculturalism and Diversity. Units: 3

Multiculturalism and diversity have become tokenized liberal discourses of immigrant assimilation in the West. This course examines how these ideologies emerged as well as the ways people reproduce and contest these discourses by occupying registers of exclusion and inclusion simultaneously. We will examine these experiences through historical accounts, ethnography, and media representations to develop a critical understanding of the ways these narratives get "lived" in the contemporary context.

ES 3630. Race, Ethnicity, and Film in America, 1920-Present. Units: 3

This course utilizes documentary and popular film to better understand the experiences, representation, and resistance modes of people of color in the US. Students will explore racist imagery central to the American film industry during the 20th century while deeply analyzing film as a vital facet of political resistance and artistic production among people of color. Offered as ES 3630 and HIST 3630, students may not receive credit for both.

ES 3940. Topics in Ethnic Studies. Units: 3

A selected area or issue of ethnic studies. May be repeated for credit as topics change. Formerly known as ES 394.

ES 4100. Health and Racism in the US, 1800-Present. Units: 3

This course posits that medicine, race and the fight for healthcare among people of color are deeply intertwined within the study of racial justice and oppression in the United States. Students will analyze portrayals of public health crises, the effects of environmental racism, and the long tradition of healthcare-centered activism among people of color in the US.

ES 4101. Race and Social Movements in the United States, 1840-Present. Units: 3

This course chronicles social movements in the US from the 1840s to the present, with a focus on race and ethnicity as centerpieces of grassroots organizing. Students will utilize sources from history, sociology, psychology, and literature to better grasp common threads, successes, and limitations of social movements. The class will begin with anti-slavery organizing during the mid-1800s and will end with a focus on movements such as Black Lives Matter, climate change activism, and immigration reform.

ES 4200. US Empire and Foreign Policy 1898-Present. Units: 3

This course analyzes US history and empire-building with a focus on the 20th century. Students explore the ways in which race, gender, and the growth of capitalism are inherently intertwined within this process. Content will trace the history of American occupations and economic and military interventions throughout numerous regions of the globe. Offered as ES 4200 and HIST 4200, students may not receive credit for both.

ES 4400. Transnational Feminisms and Global Raciality. Units: 3

This course looks at the ways transnational feminisms and a global racial framework inform and expand our understanding of race and gender within and outside of the US. We will look at women's activism, labor organizing, migration, social movements, and development discourse to open up possibilities for imagining a global, transnational commitment to social justice and reflect on practices that can help create such visions.

ES 4600. Eating the Other: Consumer Culture and Race. Units: 3

This course, an homage to bell hooks, draws from interdisciplinary texts to examine consumer culture through the lens of race, gender, and class. Contemporary debates surrounding the links and ruptures between cultural appropriation and cultural appreciation have become nearly ubiquitous on university campuses and in various media outlets. Instead of resolving these concerns, this course examines the discourses that have given rise to these debates centering on consumption and the forms of racialization certain types of consumption produce. We will examine how these ideas have been contested by communities of color in the US as they negotiate their place in a racial landscape that perpetually inscribes them as the other.

ES 5250. Performance Studies and Ethnic Studies. Units: 3

Semester Prerequisite: Students must have taken at least one other upper-division Ethnic Studies course in order to enroll in ES 5000-level courses (or have received faculty approval)

This course is an exploration of the ways in which Performance Studies and Ethnic Studies intersect with one another. It will also examine the ways in which performance, both onstage and off, holds the potential to disrupt conventional and/or stereotypical ways of thinking about identities.

ES 5753. Internship in Ethnic Studies. Units: 3

Semester Prerequisite: Students must have taken at least one other upper-division Ethnic Studies course in order to enroll in ES 5000-level courses (or have received faculty approval)

Reflecting the ongoing indebtedness of Ethnic Studies to learning with and learning from those outside of traditional spaces of higher education, this internship course provides an opportunity for service learning and community engagement. Community partners will be selected in consultation with Ethnic Studies faculty. Regular meetings with supervising faculty member will be required.

ES 5940. Senior Seminar. Units: 3

Semester Prerequisite: Completed and passed a minimum of one (1) upper-division Ethnic Studies course or faculty consultation

This course is an Ethnic Studies methodologies seminar wherein students will pursue faculty-guided independent research projects. The course will result in a final research paper that reflects originality of thought and shared conversation with interlocuters within Ethnic Studies.

ES 5953. Independent Study. Units: 3
For students capable of individualized work and in need of advanced or specialized study. May be taken two times for six units. Formerly ES 595C.

Education-Secondary Education (ESEC)

Courses

ESEC 5000. Early Fieldwork Seminar. Units: 3
This course is the first of two Clinical Practice fieldwork courses designed to provide single subject credential candidates practical hands-on experience in schools. Candidates are required to conduct Early Fieldwork hours (120 hours) including observations, tutoring diverse learners, small group work, and completing fieldwork assignments from the various program courses. The course also requires candidates to explore and reflect on school-wide policies, classroom environments, classroom management and procedures, and instructional design. The seminars link coursework with practice and provide collegial support for the candidates. Graded credit/no credit.

ESEC 5001. Classroom Management & Pedagogy. Units: 3
Semester Prerequisite: Admission into the Single Subject Program
This course explores current research, theory, and best practices for managing student behavior in secondary classrooms. Topics include managing classroom routines and procedures, setting clear behavioral expectations, appropriate pedagogy and communicating expectations to students and families, and developing positive interventions to promote student social-emotional growth.

ESEC 5002. Educational Equity and Advocacy. Units: 3
This course provides students with the essential knowledge and dispositions of culturally responsive, anti-racist, and critical education. The course highlights the imperative to teach with multiple perspectives and develops student capacity to teach all youth regardless of social class, culture, race, ethnicity, language, gender, and sexual identity.

ESEC 5003. Pedagogical Foundations for English Language Learners in Secondary Classrooms. Units: 3
This course explores strategies for modifying instruction to teach all students, including English language learners, effectively. The course provides students with the knowledge and skills necessary to create inclusive learning environments and maintain high expectations for all students. This course may not use it for master's credit.

ESEC 5004. Adolescent Development and Educational Theory. Units: 3
The course highlights the ways adolescents interact within school settings, and examines research on adolescent development as it pertains to effective teaching. Students will explore various theories of physical, cognitive, social, and emotional development, and consider how those theories inform teaching in secondary school contexts.

ESEC 5030. Subject Matter Seminar. Units: 3
This course guides the teacher candidate in preparing for and responding to the Subject Matter Competency state-mandated requirement for all teacher candidates. This state-mandated requirement evaluates teacher candidates competency in the content area in which they are seeking their credential. In this course, students will engage in peer exploration of and preparation for the Subject Matter requirement. Can be taken a maximum of two times for a total of six units. Graded Credit/No credit. Mandated course for all applicants who have not met the Subject Matter Competency requirement.

ESEC 5450. Adolescents Literacy Tutoring. Units: 3
Tutor training for students to work with low literacy and at-risk adolescents in reading. Topics include literacy methods, multicultural issues, learning disabilities and use of educational software. 20 hours lecture and 48 hours of tutoring an adolescent in a field-based setting. Department consent required.

ESEC 6002. Educational Equity and Advocacy. Units: 3
This course provides students with the essential knowledge and dispositions of culturally responsive, anti-racist, and critical education. The course highlights the imperative to teach with multiple perspectives and develops student capacity to teach all youth regardless of social class, culture, race, ethnicity, language, gender, and sexual identity.

ESEC 6003. Pedagogical Foundations for English Language Learners in Secondary Classrooms. Units: 3
This course explores strategies for modifying instruction to effectively teach all students, including English language learners. The course provides students with the knowledge and skills necessary for creating inclusive learning environments and maintaining high expectations for all students. Equivalent to EMAT 6012, credit may not be awarded for both.

ESEC 6004. Adolescent Development and Educational Theory. Units: 3
The course highlights the ways adolescents interact within school settings, and examines research on adolescent development as it pertains to effective teaching. Students will explore various theories of physical, cognitive, social, and emotional development, and consider how those theories inform teaching in secondary school contexts.

ESEC 6005. Literacy Across the Content Areas. Units: 3
This course explores how to teach reading and writing to prepare students for discipline-specific thinking across content areas. The course includes the design and implementation of formative and summative assessments in the classroom.

ESEC 6006. Secondary Education Special Topics (Capstone). Units: 3
Quarter Prerequisite: Admission to the Single Subject Program
This course provides students with ethical and legal guidelines for special education, school discipline, data privacy, copyright & technology use agreements, internet security, and other issues for classroom teachers. Exploring the influences of political, social, economic, legal and cultural issues on schools and classroom practices.

ESEC 6010. Methods of Teaching in the Content Areas: Art. Units: 3

This course provides students with an understanding of the existing knowledge-base of teaching methods in Art, and the skills to plan and implement subject-specific pedagogy for Art in secondary classrooms. Topics include selecting and adapting methods of teaching for the content areas, planning lessons and units, assessing learning and developing practices that promote inquiry and critical thinking.

ESEC 6011. Methods of Teaching in the Content Areas: English. Units: 3

This course provides students with an understanding of the existing knowledge-base of teaching methods in English/ Language Arts and the skills to plan and implement subject-specific pedagogy in English/ Language Arts secondary classrooms. Topics include selecting and adapting methods of teaching for the content areas, planning lessons and units, assessing learning, and developing practices that promote inquiry and critical thinking.

ESEC 6012. Methods of Teaching in the Content Areas: World Language. Units: 3

This course provides students with an understanding of the existing knowledge-base of teaching methods in World Languages and the skills to plan and implement subject-specific pedagogy in secondary World Languages classrooms. Topics include selecting and adapting methods of teaching for the content areas, planning lessons and units, assessing learning, and developing practices that promote inquiry and critical thinking.

ESEC 6013. Methods of Teaching in the Content Areas: Mathematics. Units: 3

This course provides students with an understanding of the current knowledge-base of teaching methods in mathematics and the skills required to plan, evaluate, and implement effective mathematics pedagogy in secondary classrooms. Topics include selecting and adapting evidence-based methods of teaching for the content area of mathematics, planning lessons and units, assessing learning, and developing practices and dispositions that promote inquiry and critical thinking.

ESEC 6014. Methods of Teaching in the Content Areas: Music. Units: 3

This course provides students with an understanding of the existing knowledge-base of teaching and the skills to plan and implement subject-specific pedagogy in secondary classrooms. Topics include selecting and adapting methods of teaching for the content areas, planning lessons and units, assessing learning, and developing practices that promote inquiry and critical thinking.

ESEC 6015. Methods of Teaching in the Content Areas: Physical Education. Units: 3

This course provides students with an understanding of the existing knowledge-base of teaching Physical Education and the skills to plan and implement subject-specific pedagogy in secondary Physical Education classrooms. Topics include selecting and adapting methods of teaching for the content areas, planning lessons and units, assessing learnings, and developing practices that promote inquiry and critical thinking.

ESEC 6016. Methods of Teaching in the Content Areas: Science. Units: 3

This course provides students with an understanding of the existing knowledge-base of teaching Science and the skills to plan and implement subject-specific pedagogy in secondary Science classrooms. Topics include selecting and adapting methods of teaching for the content areas, planning lessons and units, assessing learning, and developing practices that promote inquiry and critical thinking.

ESEC 6017. Methods of Teaching in the Content Areas: Social Science. Units: 3

This course provides students with an understanding of the existing knowledge-base of teaching Social Science and the skills to plan and implement subject-specific pedagogy in secondary Social Science classrooms. Topics include selecting and adapting methods of teaching for the content areas, planning lessons and units, assessing learning, and developing practices that promote inquiry and critical thinking.

ESEC 6018. Methods of Teaching in the Content Areas: Theater. Units: 3

This course provides students with an understanding of the existing knowledge-base of teaching methods in Theater and the skills to plan and implement subject-specific pedagogy in K-12 Theater classrooms. Topics include selecting and adapting methods of teaching for the content areas, planning lessons and units, assessing learning, and developing practices that promote inquiry and critical thinking. Graded A through C-/NC.

ESEC 6020. Supervised Field Experience I. Units: 6

This course is intended to help the teacher candidate make the transition from a college student to classroom teacher. Student teaching is an opportunity for the candidate to enact the theories, practices and strategies learned in the foundational stage of the credential program. In the initial stages of this transformative experience, the teacher candidate will observe the Resident Teacher and orient her/himself to the students and the school culture. Over the course of the semester the candidate will have increasing responsibility for the classroom, teaching an increasing number of periods through the school day. Student teaching is a full-time, all day experience in a public school setting. Graded: Credit/No Credit.

ESEC 6022. Supervised Field Experience II. Units: 3

This course is intended to help the teacher candidate make the transition from a post-baccalaureate student to classroom teacher. Student teaching is an opportunity for the candidate to enact the theories, practices and strategies learned in the foundational stage of the credential program. In this second stage of student teaching, teacher candidates will assume more responsibility for the classroom, teaching an increasing number of periods through the school day. Student teaching is a full-time, all day experience in a public school setting. Graded: Credit/No Credit.

ESEC 6030. Teaching Performance Assessment Supervised Study I. Unit: 1

This course will prepare students to submit their Teaching Performance Assessment. This will include one-on-one mentoring sessions to supervise and provide guidance on student work for the TPA. Graded credit/no credit.

ESEC 6031. Teaching Performance Assessment Seminar. Units: 3

This course guides the teacher candidate in preparing for and responding to the California Commission on Teacher Credential (CCTC) state mandated Teacher Performance Assessment required of all teacher candidates. This state mandated assessment evaluates what teacher candidates know and are able to do before being recommended for a teacher credential. In this course students will engage in practical exploration of and preparation for the TPA Cycle 1. Can be taken a maximum of two times for a total of six units. Graded Credit/No credit.

ESEC 6032. Teaching Performance Assessment Supervised Study II. Unit: 1

This course will prepare students to submit part II of their Teaching Performance Assessment. This will include one-on-one mentoring sessions to supervise and provide guidance on student work for the TPA. Graded Credit/No credit.

ESEC 6033. Teaching Performance Assessment Seminar II. Units: 2

Semester Prerequisite: Must have completed Teaching Performance Assessment Seminar I

This course guides the teacher candidate in preparing for and responding to the California Commission on Teacher Credential (CCTC) state mandated Teacher Performance Assessment required of all teacher candidates. This state mandated assessment evaluates what teacher candidates know and are able to do before being recommended for a teacher credential. In this course students will engage in practical exploration of and preparation for the TPA Cycle 2. Graded Credit/No credit.

ESEC 6034. Teaching Performance Assessment Seminar. Units: 3

This course guides the teacher candidate in preparing for and responding to the California Commission on Teacher Credential (CCTC) state mandated Teacher Performance Assessment required of all teacher candidates. This state mandated assessment evaluates what teacher candidates know and are able to do before being recommended for a teacher credential. In this course students will engage in practical exploration of and preparation for the TPA Cycles 1 and 2. Can be taken a maximum of two times for a total of six units. Graded Credit/No credit.

ESEC 6055. Internship Seminar I. Units: 2

This course provides support and guidance to the intern teacher candidate. The intern candidate is a full-time teacher with full responsibilities of the classroom in a cooperating school district. On a daily basis, the intern will demonstrate and refine their teaching of content area standards as well as demonstrate effective use of the theories and strategies learned in the foundational stage of the credential program. Graded credit/no credit. Formerly offered as ESEC 555.

ESEC 6056. Internship Seminar II. Units: 2

This course is the second phase of supervised intern teaching. In this course, the candidate continues to receive support and refine their teaching of content area standards. Graded credit/no credit. Formerly offered as ESEC 556.

ESEC 6071. Intern Supervision I. Units: 3

Semester Prerequisite: Admission to Single Subject Program and Intern requirements met. Quarter Prerequisite: enrollment in Single Subject Program and meeting Intern requirements

Supervised field experience for full-time intern teaching in a single subject setting in a public school. Formerly ESEC 570A. Graded Credit/No Credit.

ESEC 6072. Intern Supervision II. Units: 3

Semester Prerequisite: satisfactory completion of ESEC 6071 and consent of program coordinator. Quarter Prerequisite: satisfactory completion of ESEC 570A and consent of program coordinator

Full-time teaching in a single subject setting in a public school. Graded credit/no credit. Formerly ESEC 570B. Graded Credit/No credit.

ESEC 6605. Advanced Topics in Education. Units: 3

History and theory of elementary, secondary and post-secondary education within the setting of American society: underlying assumptions, organizational structure, leadership, policy, and educational change. Multiculturalism is studied in a balanced context relevant to the educational setting. Students apply what they learn to their educational philosophy, thereby connecting theory to the daily practice in the schools. Course offered as ESEC 6605 and EMAT 6605; credit cannot be awarded for both. Formerly EDUC 605/6605.

ESEC 6610A. Teaching and Learning Technique A - Student Engagement. Units: 3

Theories, research, and concept of human motivation and engagement related to learning and teaching. Explores what motivates students to learn and examine strategies, techniques and interventions that promote and sustain learner engagement. Historical and contemporary research on motivation, teaching and learning will be reviewed, analyzed and discussed.

ESEC 6610B. Teaching and Learning Technique B: Effective Communication in Education. Units: 3

Practical approaches to effective communication in educational contexts. Correlates of effective change and the dynamics of interpersonal communication; group dynamics from a pluralistic perspective; writing and speaking for professional and academic purposes.

ESEC 6610C. Teaching and Learning Technique C: Instructional Facilitation. Units: 3

Provides a context for understanding learner-centered effective questioning techniques, coaching conversations, facilitation strategies, working with struggling learners, navigating conflict, and verbal and nonverbal communication skills.

Education-Special Education (ESPE)

Courses

ESPE 3350. Introduction to Special Populations for General Education Teachers. Units: 3

Introduction to special populations in the mainstream classroom for general educators. Development of basic skills for teaching special populations in the general education classroom including differentiated instructional strategies within the core curriculum, roles of general education teachers, and creating a positive inclusive climate of instruction for exceptional learners. A minimum of three hours of fieldwork is required. Formerly ESPE 350.

ESPE 5530. Introduction to Special Education. Units: 3

Characteristics and educational implications of physical, intellectual, social and emotional development among exceptional individuals. Ethical and legal aspects of special education. Observations in educational settings. For classification in any Special Education program, candidates must obtain a grade of B or better. Formerly ESPE 530.

ESPE 5531. Methods and Procedures in Special Education. Units: 3

Quarter Prerequisite: ESPE 530

Introductory methods for planning, assessment of student learning, basic instructional strategies, differentiated instruction, and classroom management in special education. Policies and procedures related to the implementation of federal and state legislation governing the delivery of special education services. Introduction to the dispositions of effective special education teachers and teacher leadership. For classified admission to any of the Special Education programs, candidates must obtain a grade of B or better. Formerly ESPE 531.

ESPE 5532. Language Development in Diverse Learners. Units: 3

Semester Prerequisite: ESPE 5530, ESPE 5531, and admission to the Special Education program. Quarter Prerequisite: ESPE 530, ESPE 531, and ESPE 611, and admission to the Special Education program

Characteristics of typical/atypical language development and academic language acquisition in children with and without disabilities. Functional communication and augmentative/alternative communication needs of the exceptional child. Includes the unique linguistic features and needs of the EL learner with disabilities.

ESPE 6601. Critical Issues in Special Education. Units: 3

Semester Prerequisite: Classified admission to Master of Science in Special Education program

Legal, historical, and ethical foundations of special education including legislation, regulations and case law that govern the provision of special education. Critical trends and issues affected by current social, political, and economic conditions will be addressed, including education reform, multicultural and language issues, inclusion, access to core curriculum, and transition.

ESPE 6602. Research in Special Education. Units: 3

Semester Prerequisite: Classified admission to Master of Science in Special Education program

Introduction to qualitative and quantitative research methods, including single subject design. Formulation of research questions and preparation of research documents. Understanding descriptive and inferential statistics in education research. Reading and understanding current research in special education.

ESPE 6606. Graduate Writing in Special Education. Units: 3

Semester Prerequisite: Satisfaction of the GE written communication (A1) requirement and a minimum of 60 semester units of college credit

Candidates will learn expository writing conventions specific to the field of special education. Analysis and evaluation of research will be addressed. APA Style will be included.

ESPE 6609. Practicum: Educating Students with Autism Spectrum Disorder. Unit: 1

Semester Prerequisite: Must be co-enrolled in ESPE 6610 or have successfully completed ESPE 6610 or equivalent with consent of program coordinator

Activities related to evidence-based practices in teaching students with autism spectrum disorders.

ESPE 6610. Educating Students with Autism Spectrum Disorders. Units: 3

Semester Prerequisite: ESPE 5530, ESPE 5531, and admission to the Special Education program. Quarter Prerequisite: ESPE 530, ESPE 531, and admission to the Special Education program

Semester Corequisite: ESPE 6609

Characteristics of learners with autism. Evidence-based methods for the education and treatment of students in early childhood through age 22 with autism spectrum disorders. Planning, implementing, and evaluating methods to teach social, language, behavioral, and learning skills. Concurrent enrollment required in ESPE 6609.

ESPE 6619. Supervised Student Teaching in Special Education: Early Childhood Special Education. Units: 6

Semester Prerequisite: Classified admission to the Preliminary Education Specialist credential program in Early Childhood Special Education and successful completion of ESPE 5532, ESPE 6631, ESPE 6632, ESPE 6633, and ESPE 6634. Quarter Prerequisite: Classified admission to the Special Education credential program

Supervised full-time student teaching in early childhood special education settings at a public school or program operated by a county office of education. Experiences in at least two service delivery models for children between birth and kindergarten as outlined by the credential authorization will be documented. Apply for permission to enroll one semester in advance. Graded credit/no credit. Formerly ESPE 620C.

ESPE 6620. Supervised Student Teaching in Special Education: Mild to Moderate Support Needs. Units: 6

Semester Prerequisite: Classified admission to the Preliminary Education Specialist credential program in: (1) Mild/Moderate Disabilities (2009 Standards) and successful completion of ESPE 6609 and ESPE 6636 (formerly 6614); OR (2) Mild to Moderate Support Needs (2018 Standards) and successful completion of ESPE 6634 and ESPE 6636 (formerly ESPE 6614). Quarter Prerequisite: Classified admission to the Special Education credential program

Supervised full-time student teaching in settings where students with mild to moderate support needs are served in a public school. Experiences in general education, grade/age levels, federal disability categories, and the continuum of services outlined by the credential authorizations for Mild to Moderate Disabilities (2009 Standards) and Mild to Moderate Support Needs (2018 Standards) will be documented. Apply for permission to enroll one semester in advance. Graded credit/no credit. Formerly ESPE 620A.

ESPE 6621. Supervised Student Teaching in Special Education: Extensive Support Needs. Units: 6

Semester Prerequisite: Classified admission to the Preliminary Education Specialist credential program in: (1) Moderate to Severe Disabilities (2009/2014 Standards) and successful completion of ESPE 6609 and ESPE 6636 (formerly 6614); OR (2) Extensive Support Needs (2018 Standards) and successful completion of ESPE 6634 and ESPE 6636 (formerly ESPE 6614). Quarter Prerequisite: Classified admission to the Special Education credential program

Supervised full-time student teaching in settings where students with extensive support needs are served in a public school or county office of education. Experiences in general education, grade/age levels, federal disability categories, and the continuum of services outlined by the credential authorizations for Moderate to Severe Disabilities (2009/2014 Standards) and Extensive Support Needs (2018 Standards) will be documented. Apply for permission to enroll one semester in advance. Graded credit/no credit. Formerly ESPE 620B.

ESPE 6622. Supervised Intern Teaching in Special Education: Mild to Moderate Support Needs. Units: 6

Semester Prerequisite: Full/Clear Classification in the Education Specialist Intern Credential in the Special Education program. Candidate must hold a valid Education Specialist Internship Credential with an authorization in Mild to Moderate Disabilities (2009/2014 Standards) OR Mild to Moderate Support Needs (2018 Standards); verified employment in a partnering school district as the teacher of record in a setting appropriate to the internship credential authorization; and consent of Intern Coordinator. Quarter Prerequisite: Full/Clear Classification in the Education Specialist Intern Credential in Mild/Moderate Disabilities and consent of Intern Coordinator

Supervised full-time teaching on an Education Specialist Internship credential in a special education public school setting designated by the Mild/Moderate credential (2009/2014 Standards) OR Mild to Moderate Support Needs credential (2018 Standards) authorization. Must be repeated with a grade of Credit during each semester of the Internship program until completion of credential objective (minimum 4 semesters). May be repeated four times for 24 units. Formerly ESPE 622A.

ESPE 6623. Supervised Intern Teaching in Special Education: Extensive Support Needs. Units: 6

Semester Prerequisite: Full/Clear Classification in the the Special Education program. Candidate must hold a valid Education Specialist Internship Credential with an authorization in Moderate to Severe Disabilities (2009/2014 Standards) OR Extensive Support Needs (2018 Standards); verified employment in a partnering school district as the teacher of record in a setting appropriate to the internship credential authorization; and consent of Intern Coordinator. Quarter Prerequisite: Full/Clear Classification in the Education Specialist Intern Credential in Moderate/Severe Disabilities and consent of Intern Coordinator

Supervised full-time teaching on an Education Specialist Internship credential in a special education public school setting designated by the Moderate/Severe credential (2009/2014 Standards) OR Extensive Support Needs credential (2018 Standards) authorization. Must be repeated with a grade of Credit during each semester of the Internship program until completion of credential objective (minimum 4 semesters). May be repeated four times for 24 units. Formerly ESPE 622B.

ESPE 6624. Supervised Intern Teaching in Special Education: Early Childhood Special Education. Units: 6

Semester Prerequisite: Full/Clear Classification Education Specialist Intern Credential in Early Childhood Special Education and consent of Intern Coordinator. Quarter Prerequisite: Full/Clear Classification in Education Specialist Intern Credential in Early Childhood Special Education and consent of Intern Coordinator

Full-time teaching on an Education Specialist Internship credential in a special education public school setting designated by the Early Childhood credential authorization. Must be repeated with a grade of Credit during each semester of the Internship program until completion of credential objective (minimum 4 semesters). May be repeated four times for 24 units. Formerly ESPE 622C.

ESPE 6631. Assessment for Planning and Instruction. Units: 3

Semester Prerequisite: ESPE 5530, ESPE 5531, and admission to the Special Education Program. Quarter Prerequisite: ESPE 530, ESPE 531, and admission to the Special Education Program

Valid and reliable assessment practices and data analysis to inform evidence-based decisions regarding special education eligibility, program planning, progress monitoring, and learning outcomes for diverse learners. Formerly ESPE 6611.

ESPE 6632. Supportive Learning Environments. Units: 3

Semester Prerequisite: ESPE 5530, ESPE 5531, and admission to the Special Education Program. Quarter Prerequisite: ESPE 530, ESPE 531, and admission to the Special Education Program

Establish, maintain, and monitor positive behavioral and environmental supports in diverse educational settings. Includes system-level support practices. Practicum in approved settings required. Formerly ESPE 6612; ESPE 612.

ESPE 6633. Methods to Support Inclusive Learning. Units: 3

Semester Prerequisite: ESPE 5530, ESPE 5531, and admission to the Special Education program
Semester Corequisite: ESPE 6634
In the context of the California school structure, application and synthesis of teaching methods including universal design for learning (UDL) and integrating unique linguistic features and needs of English language (EL) learners with disabilities across subject matter including core subjects as well as visual and performing arts. Technology for teaching and learning including assistive technology to support student access to learning in inclusive settings. Students will be introduced to coordinating and collaborating with other professionals and paraprofessionals in inclusive educational settings. Concurrent enrollment is required in ESPE 6634.

ESPE 6634. Practicum: Methods to Support Inclusive Learning. Unit: 1

Semester Prerequisite: ESPE 5530, ESPE 5531, and admission to the Special Education Program
Semester Corequisite: Must be co-enrolled in ESPE 6633 or have successfully completed ESPE 6633 or equivalent with consent of program coordinator
Activities related to evidence-based practices in teaching students in inclusive educational settings for TK/Preschool-12 students with and without disabilities.

ESPE 6635. Seminar in Literacy Learning for K-12 Students with Special Needs. Units: 3

Semester Prerequisite: ESPE 5530, ESPE 5531, ESPE 5532 (formerly ESPE 5514), ESPE 6631(formerly ESPE 6611), and admission to the Special Education program. Quarter Prerequisite: ESPE 530, ESPE 531, ESPE 611, and admission to the Special Education program
Semester Corequisite: ESPE 6636 (Formerly ESPE 6614)
Differentiated teaching methods and specialized assessment in literacy learning for students with special needs, including English learners. Must be taken concurrently with ESPE 6636 (formerly 6614). Formerly ESPE 6613; ESPE 613.

ESPE 6636. Practicum: Seminar in Literacy Learning for K-12 Students with Special Needs. Unit: 1

Semester Prerequisite: ESPE 5530, ESPE 5531, ESPE 5532 (formerly ESPE 5514), ESPE 6631 (formerly ESPE 6611), and admission to the Special Education program
Semester Corequisite: ESPE 6635 (formerly ESPE 6613) or have successfully completed ESPE 6635 (formerly ESPE 6613) or equivalent with consent of program coordinator
Activities related to evidence-based practices in literacy instruction for students in grades kindergarten through 12 with disabilities. Formerly ESPE 6614.

ESPE 6637. Seminar on Language and Literacy in Early Childhood Special Education. Units: 3

Semester Prerequisite: ESPE 5530, ESPE 5531, and fully classified in the Education Specialist credential program in Early Childhood. Quarter Prerequisite: ESPE 530, ESPE 531, and full admission to the Special Education program
Semester Corequisite: ESPE 6638 (formerly ESPE 6616)
An intensive study of early language and literacy skills including English language development, assessment, instruction, and curriculum guidelines as related to infants, toddlers, preschool, and kindergarten children with special needs. Formerly ESPE 6615; ESPE 615.

ESPE 6638. Practicum: Seminar on Language and Literacy in Early Childhood Education. Unit: 1

Semester Prerequisite: ESPE 5530, ESPE 5531, ESPE 6631 (formerly ESPE 6611), ESPE 6632 (formerly ESPE 6612), and admission to the Special Education program
Semester Corequisite: ESPE 6637 (formerly ESPE 6615) or have successfully completed ESPE 6637 (formerly ESPE 6615) or equivalent with consent of program coordinator
Activities related to evidence-based practices for language and literacy instruction in early childhood special education. Formerly ESPE 6616.

ESPE 6639. Collaboration and Consultation in Special Education. Units: 3

Semester Prerequisite: ESPE 5530, ESPE 5531, ESPE 6631 (formerly ESPE 6611), ESPE 6632 (formerly ESPE 6612), and admission to the Special Education program. Quarter Prerequisite: ESPE 530, ESPE 531, ESPE 611, ESPE 612, and admission to the Special Education program
Competencies and skills for collaborative and consultative roles to develop partnerships with students, professionals, paraprofessionals, families, and community agency personnel. The role of the education specialist as a teacher leader will be addressed. Formerly ESPE 6625; ESPE 625.

ESPE 6642. Methods for Students with Mild to Moderate Support Needs I. Units: 3

Semester Prerequisite: ESPE 5532 (formerly ESPE5514), ESPE 6631 (formerly ESPE6611), ESPE6632 (formerly ESPE6612), ESPE6633, and ESPE6635 (formerly ESPE6613)
Responsive, explicit, and systematic teaching and behavioral practices to collaboratively provide optimal learning opportunities for students with mild and moderate support needs to develop essential 21st-century skills. Formerly ESPE 642.

ESPE 6643. Methods for Students with Mild to Moderate Support Needs II. Units: 3

Semester Prerequisite: ESPE 6642. Quarter Prerequisite: ESPE 642
The development of the knowledge and skills to promote social and emotional well-being of students with mild and moderate support needs and to empower students and families for a successful transition to post-secondary education, career, independent living, and community participation. Formerly ESPE 643.

ESPE 6662. Methods for Students with Extensive Support Needs I. Units: 3

Semester Prerequisite: ESPE 5532, ESPE 6631, ESPE 6632, ESPE 6633, ESPE 6635. Quarter Prerequisite: ESPE 610 and 611

Person-centered planning, strength-based, and ecological assessment to develop IEP and ITP; evidence-based instructional supports for students with ESN; address the unique learning, sensory and access needs of students with physical/orthopedic disabilities, other health impairments, and multiple disabilities; environments that support communication and social interactions. Formerly 662.

ESPE 6663. Methods for Students with Extensive Support Needs II. Units: 3

Semester Prerequisite: ESPE 5532, ESPE 6631, ESPE 6632, ESPE 6633, ESPE 6635, ESPE 6662. Quarter Prerequisite: ESPE 662

Transition planning and implementation for students with ESN; use of assistive technology and AAC to facilitate communication, curriculum access, and skills development; supporting mobility, sensory and/or specialized health care needs; community-based instructional environments; collaboration with other service providers. Formerly ESPE 663.

ESPE 6665. Seminar in Special Education. Units: 3

Semester Prerequisite: Classified admission and advanced to candidacy in the M.S. in Special Education program for candidates who have declared the Comprehensive Exam option. Quarter Prerequisite: Classified admission and advanced to candidacy in the MS Special Education program for candidates who have declared the Comprehensive Exam option

Advanced seminar designed to review current issues and empirical research findings relating to the education of students with disabilities in preparation for the Comprehensive Exam in special education. Review of information regarding assessment, development and delivery of quality instruction, and providing appropriate support for use in regular and special education settings.

ESPE 6672. Birth to Age Three Methods in Early Childhood Special Education. Units: 3

Semester Prerequisite: ESPE 6610, ESPE 6611, ESPE 6612, and full classification the Early Childhood Special Education credential and/or Master of Science in Special Education program. Quarter Prerequisite: ESPE 610, ESPE 611, ESPE 612, and admission to the Special Education program

Contemporary theoretical, philosophical, legal, and empirical influences in Early Intervention. Screening, assessment, intervention and instructional strategies that are responsive to the individual needs of families who have children between birth and age three with disabilities (including children at risk and with low incidence disabilities). Special consideration of the assessment of parent priorities and resources, models of service delivery, collaboration, and supportive learning environments. Requires 45 hours of practice in early intervention settings.

ESPE 6673. Preschool through Kindergarten Methods in Early Childhood Special Education. Units: 3

Semester Prerequisite: ESPE 6610, ESPE 6611, ESPE 6612, and full classification the Early Childhood Special Education credential and/or Master of Science in Special Education program. Quarter Prerequisite: ESPE 610, ESPE 611, ESPE 612, and admission to the Special Education program

Assessment, intervention and instructional strategies that are responsive to the individual needs of students in preschool through kindergarten with disabilities (including children with low incidence disabilities). Special consideration of models of service delivery, collaboration, and supportive learning environments.

ESPE 6953. Advanced Independent Study Topics in Special Education. Units: 3

Prerequisites: Minimum grade point average of "B'

Special topics involving the application of special education procedures. Consent of instructor and college approval of a written proposal of a project submitted on a standard application, and filed in advance of the term in which the course is to be taken. May be taken two times for six units.

ESPE 6960. Master of Science in Special Education Project. Units: 3

Semester Prerequisite: Advancement to candidacy and consent of the Special Education Graduate Program Coordinator. Quarter Prerequisite: Advancement to candidacy and consent of the Special Education Graduate Program Coordinator

Independent graduate research conducted under the guidance of the major advisor and resulting in a written project. Formerly ESPE 600.

ESPE 6980. Comprehensive Examination. Units: 0

Semester Prerequisite: Advancement to candidacy, approval of the department, completion of coursework in the MS in Special Education program, and in good academic standing. Quarter Prerequisite: Advancement to candidacy, approval of the department, completion of coursework in the MS in Special Education program, and in good academic standing

Semester Corequisite: Concurrent enrollment in ESPE 6665

An assessment of teacher candidates' ability to integrate the knowledge of the area, show critical and independent thinking, and demonstrate mastery of the subject matter. Graded credit/no credit.

ESPE 7906. Leadership in Program Development for Students with Disabilities. Units: 3

Semester Prerequisite: Admission into EdD program. Quarter Prerequisite: Admission into EdD program

Leadership and administration of programs for students with disabilities, including the review of legislative authority and state and federal regulations. Emphasis will be placed on accessibility and inclusive practices.

Education-Sci, Tech, Engineering, Math (ESTM)

Courses

ESTM 5114. Technology and Engineering in STEM Education. Units: 3

Study of technology and engineering tools, practices, and standards that contribute to K-12 Science, Technology, Engineering, and Mathematics (STEM) education.

ESTM 6104. Foundations of STEM Education. Units: 3

Overview of philosophy, perspectives, and standards of Science, Technology, Engineering, and Mathematics (STEM) education that contribute to an integrated view of STEM education. Formerly offered as ESTM 510.

ESTM 6134. Assessment in STEM Education. Units: 3

Quarter Prerequisite: ESTM 510 or consent of program coordinator
Introduction to assessment strategies that enhance learning in STEM education. Topics include formative and summative assessment, student feedback, development and analysis of assessment item, measurement methods, and data driven decision making. Previously offered as ESTM 613.

ESTM 6203. Advanced Teaching Methods in STEM Education. Units: 3

Emphasis is on curricular connections across topics, disciplines and grade levels, fostering scientific and mathematical thinking and practices, STEM integration, and equitable teaching strategies.

ESTM 6234. Teaching Science in STEM Education. Units: 3

Emphasis is on curricular connections across topics and grade levels, fostering scientific thinking and practices, STEM integration, research and trends in science education that impact teaching and learning of science.

ESTM 6244. Teaching Mathematics in STEM Education. Units: 3

Quarter Prerequisite: ESTM 510, ESTM 511, MATH 115 or equivalent, MATH 301A, MATH 301B, MATH 301C, and MATH 308 or consent of program coordinator
The emphasis is on curricular connections across topics and grade levels, fostering mathematical thinking and practices, STEM integration, research and trends in mathematics education that impact teaching and learning of mathematics.

ESTM 6284. Equity in STEM Education. Units: 3

An examination of the issues of diverse student groups based on race, ethnicity, language, socio-economic status, gender, and special needs in STEM education. Emphasis is on approaches to ensure equity in STEM education, such as differentiation strategies and culturally relevant teaching.

ESTM 6344. Research Methods in STEM Education. Units: 3

Quarter Prerequisite: ESTM 510 or consent of the instructor
Introduction to the major educational research methods and paradigms with an emphasis on reflective, practitioner-directed inquiry. Formerly offered as ESTM 634.

ESTM 6920. Practicum in STEM Education. Units: 3

Prerequisites: Consent of the instructor
Practicum course including application of research-based STEM Education practices in formal and informal educational settings. Consent of the instructor.

ESTM 6930. Advanced Disciplinary Topics in STEM Education. Units: 3

Advanced study of subject matter pedagogy in STEM-related disciplines to enable candidates to incorporate current and relevant content knowledge in STEM Education. Consent of the instructor.

ESTM 6954. Advanced topics in STEM Education. Units: 3

Semester Prerequisite: Advancement to candidacy and approval from program coordinator
Culminating experience for STEM Education master's students. Synthesis of current trends and practices in STEM Education in the local and national context.

ESTM 6963. STEM Education Master Project. Units: 3

Semester Prerequisite: Prerequisites: ESTM 6344, advancement to candidacy, and approval of project proposal by the student's advisory committee
Independent graduate project in STEM Education conducted under the direction of the student's advisory committee.

ESTM 6973. STEM Education Master Thesis. Units: 3

Semester Prerequisite: ESTM 6344, advancement to candidacy, and approval of thesis proposal by the student's advisory committee
Independent graduate research related to issues in STEM Education conducted under the direction of thesis committee.

ESTM 6980. STEM Education: Comprehensive Examination. Units: 0

Semester Prerequisite: Completion of course work in the master's program, advancement to candidacy, in good academic standing and approval of the program coordinator. Quarter Corequisite: ESTM 681.
Quarter Prerequisite: ESTM 680, completion of course work in the master's program, advanced to candidacy, approval of the department, and in good academic standing
Semester Corequisite: ESTM 6954
An assessment of the student's ability to integrate the knowledge of STEM education, show critical and independent thinking and demonstrate mastery of the subject matter.

ESTM 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ESTM 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ESTM 6992. Continuous Enrollment for Graduate Candidacy Standing. Units: 2

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ESTM 6993. Continuous Enrollment for Graduate Candidacy Standing. Units: 3

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ESTM 6994. Continuous Enrollment for Graduate Candidacy Standing. Units: 4

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ESTM 6995. Continuous Enrollment for Graduate Candidacy Standing. Units: 5

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

ESTM 6996. Continuous Enrollment for Graduate Candidacy Standing. Units: 6

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

Education-Instructional Technology (ETEC)

Courses

ETEC 4160. Technology in the Classroom. Unit: 1

A brief survey of instructional technology integration models and digital literacy to facilitate the teaching and learning process.

ETEC 5000. Foundations in Instructional Design & Technology. Units: 3

Introduction to the field of Instructional Design & Technology and its foundations. An overview of IDT key terminologies, learning theories, research trends and issues, and basic technological competency. Formerly ETEC 500.

ETEC 5010. Foundations of e-Learning. Units: 3

Introduction to theoretical and practical foundations of e-Learning including the history, trends, current issues, and practices of e-Learning. Formerly ETEC 501.

ETEC 5200. Academic Writing Skills. Units: 3

Study and practice of reading comprehension, academic writing process, and critical thinking as integrally related skills. Development of skills necessary to write a variety of focused and organized academic papers.

ETEC 5410. E-Learning Design and Development. Units: 3

Examination and application of e-Learning design and development principles and practices to produce online courses. Formerly ETEC 541.

ETEC 5421. Seminar in Instructional Design & Technology. Unit: 1

Intensive study of topics and issues in Instructional Design and Technology. May be repeated for credit as subject matter changes and with the consent of the instructor. Graded credit/no credit. May be taken six times for six units. Formerly ETEC 542A.

ETEC 5422. Seminar in Instructional Design & Technology. Units: 2

Intensive study of topics and issues in Instructional Design and Technology. May be repeated for credit as subject matter changes and with the consent of the instructor. Graded credit/no credit. May be taken three times for six units. Formerly ETEC 542B.

ETEC 5423. Seminar in Instructional Design & Technology. Units: 3

Quarter Prerequisite: graduate standing or consent of instructor

Intensive study of topics and issues in Instructional Design and Technology. May be repeated for credit as subject matter changes and with the consent of the instructor. Graded credit/no credit. May be taken two times for six units. Formerly ETEC 542C.

ETEC 5430. Research in Instructional Design & Technology I. Units: 3

Quarter Prerequisite: ETEC 500

Exploration of connections between technology and the teaching and learning process through a study of research design, data collection and analysis. Formerly ETEC 543.

ETEC 5440. Instructional Design I. Units: 3

Quarter Prerequisite: ETEC 500

Examination of various models of instructional design and procedures used in the production of instructional materials. Formerly ETEC 544.

ETEC 5460. Technology Integration in The Classroom. Units: 3

Exploration of basic principles of operation of computer hardware and software, and basic troubleshooting techniques for computer systems, effective integration of technology into the curriculum, digital literacy, and the legal and ethical issues related to the use of technology. Formerly ETEC 546.

ETEC 6430. Research in Instructional Design & Technology II. Units: 3

Quarter Prerequisite: ETEC 500 and 543

Advanced exploration of connections between technology and the teaching and learning process through a study of research design, data collection, and analysis. Formerly ETEC 643.

ETEC 6440. Instructional Design II. Units: 3

Quarter Prerequisite: ETEC 500 and ETEC 544

Advanced application of instructional design models and procedures to produce instructional materials. Formerly known as ETEC 644.

ETEC 6480. E-Learning Delivery and Evaluation. Units: 3

Examination of various models, strategies, and issues of e-learning delivery. Exploration of evaluation on student learning and e-Learning effectiveness. Formerly ETEC 648.

ETEC 6550. Multimedia Production with Emerging Instructional Technologies. Units: 3

Production of multimedia projects using various emerging instructional technologies and authoring tools. May be repeated for credit as subject matter changes and with the consent of the instructor. May be taken two times for six units. Formerly ETEC 676D.

ETEC 6740. E-Learning Technology and Media. Units: 3
Examination of current technology tools and instructional methods for effective instruction on e-Learning. Formerly ETEC 674.

ETEC 6850. ePortfolio & Comprehensive Exam Preparation. Units: 3
Assisting Instructional Design & Technology Master's students in preparation for ePortfolio defense and comprehensive examination. Graded Credit/No Credit.

ETEC 6920. Practicum in Instructional Design and Technology. Units: 3
Quarter Prerequisite: ETEC 500 or consent of instructor
Application of Instructional Design and Technology in real world issues in professional settings. Requires a written agreement with a sponsoring agency and program approval of that agreement. Formerly ETEC 692. Graded Credit/No credit.

ETEC 6963. Masters Degree Project. Units: 3
Assisting Instructional Design & Technology Masters students in completing their M.A. project. Formerly ETEC 699.

ETEC 6980. Comprehensive Examination. Units: 0
An assessment of Instructional Design & Technology Masters students' ability to integrate the knowledge of the area, show critical and independent thinking, and demonstrate mastery of the subject matter. May be taken three times. Formerly ETEC 999.

Finance (FIN)

Courses

FIN 1001. Financial Choices in Life. Units: 2
An introduction to how financial choices affect lifestyle decisions, economic stress, and well-being. Topics include how students deal with credit cards, student loans, leasing vs. buying cars, insurance, employee benefits, housing, investments, and retirement decisions. Formerly offered as FIN 101.

FIN 3001. Finance I. Units: 3
Semester Prerequisite: MATH 1301 or MATH 1401 or MATH 1601 or MATH 2210 and ACCT 2120 and ADMN 2100 or consent of instructor. Quarter Prerequisite: ACCT 212 or ACCT 312, MATH 110 and ADMN 210

First of a two-course sequence of introduction to modern financial theory. Topics include the role of finance in the management, the analysis of financial statements, long-term financial planning and growth, the time value of the money, the valuation of bonds and stocks, and capital budgeting techniques applied to relevant cash flows. Formerly offered as FIN 313.

FIN 3002. Finance II. Units: 3
Semester Prerequisite: FIN 3001. Quarter Prerequisite: FIN 313
Second of a two-course sequence of introduction to modern financial theory (continuation of FIN 3001). Topics include efficient market hypothesis, risk and return measures, the security market line, the cost of capital, capital structure, short-term finance and planning, dividend policy, credit/liquidity management, and basic concepts of options, mergers and careers in finance. Formerly offered as FIN 314.

FIN 3003. Corporate Finance. Units: 3
Introduction to modern financial theory and practice. Topics include the role of finance in management, the analysis of financial statements, long-term financial planning and growth, the time value of the money, valuation, financial markets, and capital budgeting techniques.

FIN 3555. Business and Asian Culture. Units: 3
Introduction to religions, philosophies, cultures, characteristics, histories, and etiquettes of Asian countries from a business perspective. Topics also include the historical experiences and cultural contributions of Asian Americans to American society. As a practical approach to doing business with Asian countries and Asian communities, the course introduces international business practices including documentation, customs clearance procedures, shipping, the methods and instruments of payment, and international commercial terms. (Also offered as FIN 5555. Students may not receive credit for both.) Students in FIN 5555 must complete additional requirements. Satisfies DI, G designations.

FIN 3600. Financial Planning Process and the Psychology of Financial Planning. Units: 3
Semester Prerequisite: FIN 3001
This course covers the financial planning process which includes, financial statements, cash flow management, time value of money, and economic concepts. Psychology of planning content includes , client and planner attitudes, values, and biases, principles of counseling and effective communication, and behavioral finance. Formerly offered as FIN 360.

FIN 3650. Risk Management and Insurance. Units: 3
Semester Prerequisite: FIN 3001
Principles of insurance and related risk, deepening knowledge about insurance and different type of compensation. This course covers the following topics: health insurance, disability income insurance, long term care insurance, annuities, life insurance, etc.

FIN 3800. Principles of Real Estate. Units: 3
Semester Prerequisite: FIN 3001 or consent of instructor. Quarter Prerequisite: FIN 313 or consent of instructor
Basic issues in real estate, including legal concepts, appraisal, financing, investment, brokerage, and management of real estate. Satisfies one of the state requirements toward the real estate broker license. Formerly offered as FIN 380.

FIN 3850. Real Estate Accounting. Units: 3
Semester Prerequisite: FIN 3800 or consent of instructor. Quarter Prerequisite: FIN 380 or consent of instructor
Introduction to real estate accounting. Topics covered include accounting for operating revenues and expenses, escrow account reconciliation, budgeting, real estate acquisition and disposition costs, financial and closing statements, measures of real estate profitability, tax considerations, etc. Satisfies one of the state requirements toward the real estate broker license. Formerly offered as FIN 385.

FIN 4200. Entrepreneurial Finance. Units: 3
Semester Prerequisite: FIN 3001 and 3002. Quarter Prerequisite: FIN 313 and 314 or consent of instructor
Financing business start-ups and entrepreneurial projects. Topics include business plan, venture capital markets, funding cycles, financial statement analysis, financial management, valuation of firms, and exit strategy. Formerly offered as FIN 420.

FIN 4320. Financial Institutions and Capital Market. Units: 3

Semester Prerequisite: FIN 3001 and FIN 3002. Quarter Prerequisite: FIN 313 and FIN 314

A study of the structure, operations, portfolio compositions, and problems of financial intermediaries and financial markets. Formerly offered as FIN 432.

FIN 4330. International Finance. Units: 3

Semester Prerequisite: FIN 3001

A study of the financial principles and tools and their applications to international business decisions. Topics include foreign exchange markets, foreign exchange risk and hedging, foreign investment analysis, international money and capital markets, and international trade finance. Materials fee required. Satisfies G designation.

FIN 4450. Financial Data Analytics. Units: 3

Semester Prerequisite: FIN 3001 or instructor approval. Quarter Prerequisite: FIN 314

This course introduces the modern tools utilized to analyze real-world financial problems. Students obtain practical experience in acquiring, preparing, and analyzing financial data using techniques such as machine learning and prediction models. Financial applications discussed include portfolio construction, risk management, fraud detection, lending decisions, and valuation of financial assets such as stocks and bonds. Students are advised to take this course near the end of their program. Materials fee required.

FIN 4590. Financial Case Studies. Units: 3

Semester Prerequisite: FIN 3001, FIN 3002. Prerequisite: FIN 313, FIN 314

Advanced topics in the field of finance such as financial statement analysis, capital budgeting, capital structure, retirement planning, etc. Emphasizes financial decision making and includes lectures and case studies.

FIN 4600. Retirement Planning. Units: 3

Semester Prerequisite: FIN 3600 or consent of instructor

This course covers the following topics: social security and medicare, retirement plans: qualified and non-qualified plans, retirement income, business succession planning, etc. Formerly offered as FIN 460.

FIN 4690. Tax and Estate Planning. Units: 3

Semester Prerequisite: FIN 3001

Principles of Tax and Estate Planning. This course covers topics of tax law, income tax of business entities and trusts and estates, tax reduction and management, tax of property transaction, charitable and philanthropic contribution, property titling and beneficiary designations, estate and incapacity planning, gift, estate, GST tax, types and taxation of trusts, marital deduction, planning for divorce and unmarried couples, etc.

FIN 4800. Real Estate Appraisal. Units: 3

Semester Prerequisite: FIN 3800 or consent of instructor. Quarter Prerequisite: FIN 380 or consent of instructor

Examines the appropriate methodology for determining the value of real estate, including both theory and practice. A foundation for potential licensing and certification will be developed. Satisfies one of the state requirements toward the real estate broker license. Formerly offered as FIN 480.

FIN 4810. Real Estate Practice. Units: 3

Semester Prerequisite: FIN 3800 or consent of instructor. Quarter Prerequisite: FIN 380 or consent of instructor

Legal, marketing and financial aspects of running a real estate business. Focus will be on the practical application of real estate theory to the operation of the firm. Satisfies one of the state requirements toward the real estate broker license. Formerly offered as FIN 481.

FIN 4820. Real Estate Development. Units: 3

Semester Prerequisite: FIN 3800 or consent of instructor. Quarter Prerequisite: FIN 380 or consent of instructor

Aspects of the real estate development process from the location of the property to the best use of the property. Satisfies one of the state requirements toward the real estate broker license. Formerly offered as FIN 482.

FIN 4850. Legal Aspects of Real Estate. Units: 3

Semester Prerequisite: FIN 3800 or consent of instructor. Quarter Prerequisite: FIN 380 or consent of instructor

Legal aspects of real estate transactions will be emphasized. Legal considerations of listing contracts, purchase agreements, disclosure requirements, trust deeds, promissory notes and agency will be the key topics. Liability exposures to all parties will also be explored in the real estate transaction. Satisfies one of the state requirements toward the real estate broker license. Formerly offered as FIN 485.

FIN 5230. Security Trading and Analysis. Units: 3

Semester Prerequisite: FIN 3001 and 3002 or FIN 6020. Quarter Prerequisite: FIN 313 and 314 or FIN 602

An applied investment analysis course, emphasizing the application of modern portfolio theory and asset allocation models in selecting and evaluating stocks and bonds. This web-enhanced course utilizes modern computer and data facilities to conduct extensive fundamental and technical analysis, security portfolio tracking, performance measurement, and trading simulation and strategies. Formerly offered as FIN 523.

FIN 5270. Financial Derivatives. Units: 3

Semester Prerequisite: FIN 3001 and FIN 3002 or FIN 6020. Quarter Prerequisite: FIN 313 and FIN 314 or FIN 602

Managing individual stock and stock portfolio price risks, interest rate risk, currency exchange-rate risk, and other financial risks using options, futures, forwards, and swaps. Emphasis on hedging risk than on speculative uses of financial derivatives. Formerly offered as FIN 527.

FIN 5300. Financial Theory and Practice. Units: 3

Semester Prerequisite: FIN 3001 and FIN 3002

An in-depth study of financial management with application to capital markets, financial planning, capital budgeting, capital structure, portfolio selection and managerial problems. Formerly known as FIN 430/4300.

FIN 5350. Investment Analysis. Units: 3

Semester Prerequisite: FIN 3001, FIN 3002, and (FIN 4300 or FIN 3650)

Introduction to the security analysis and the modern portfolio theory. It provides an analytic, rather than institutional, approach to understand modern treatment of risk and return characteristics of stocks, bonds, options, and portfolio. Formerly known as FIN 435/4350. Materials fee required.

FIN 5460. Student Managed Investment Fund. Units: 3

Semester Prerequisite: FIN 3001 and 3002. Quarter Prerequisite: FIN 313 and 314

Gain hands-on investment experience in managing real money. Learn to be an equity analyst and junior portfolio manager. Build an investment portfolio by selecting securities from the equity and bond markets. May be taken two times for six units. Formerly FIN 546.

FIN 5555. Trade and Business in Asia. Units: 3

Introduction to religions, philosophies, cultures, characteristics, histories, and etiquettes of Asian countries from a business perspective. Topics also include the historical experiences and cultural contributions of Asian Americans to American society. As a practical approach to doing business with Asian countries and Asian communities, the course introduces international business practices including documentation, customs clearance procedures, shipping, the methods and instruments of payment, and international commercial terms. (Also offered as FIN 3555. Students may not receive credit for both.) Students in FIN 5555 must complete additional requirements. Formerly offered as FIN 555.

FIN 5600. Code of Ethics and Standards of Conduct in Financial Plan Development. Units: 3

Semester Prerequisite: FIN 3001, FIN 3002 and FIN 3600

CFP Board's code of Ethics and Standard of Conduct. This course covers the CFP Board's code of ethics and standard conduct, procedural rules, the structure of financial institutions, financial service regulations and requirements, consumer protection laws and fiduciary standards and applications, etc. This course also covers the creation and presentation of a financial plan.

FIN 5753. Finance Internship. Units: 3

Quarter Prerequisite: senior standing preferred; consent of instructor and the departments internship coordinator

Supervised work and study in Financial function of private or public organizations. May be repeated once for credit. A total of six units of FIN 5753 (Finance Internship) course may be applied toward graduation. Graded credit/no credit. May be taken two times for six units. Formerly FIN 575.

FIN 5755. Internship. Unit: 1

Semester Prerequisite: Consent of college internship coordinator. Quarter Prerequisite: senior standing preferred; consent of instructor and the departments internship coordinator

Supervised work and study in private or public organizations. May be repeated for credit. A total of six units of Jack H. Brown College of Business and Public Administration 5753 or 5755 courses may be applied toward graduation. Graded credit/no credit.

FIN 5780. Financial Analytics I. Units: 3

This introductory course provides a practical foundation in financial analytics by teaching essential Python skills for processing and visualizing general or big data. Students will learn to use programming tools to manage everyday datasets, perform basic data manipulations, handle descriptive statistics, and create insightful visualizations to support decision-making. Basic database and knowledge management and retrieval are also covered, with practical examples for pulling financial datasets. The emphasis is on building core skills with regular data examples in a collaborative, cloud-accessible platform, setting the stage for financial applications in later courses.

FIN 5790. Financial Analytics II. Units: 3

Semester Prerequisite: FIN 5780 or consent of an instructor

This course builds on foundational data skills to introduce predictive modeling and advanced analytics techniques in a financial context. Students will use industry-standard libraries to develop, refine, and evaluate machine learning models applied to finance. Topics include, but are not limited to, supervised learning methods (such as regression and classification), unsupervised learning approaches, statistical inference, model performance metrics, and other modern machine learning techniques. The curriculum emphasizes practical workflows--ranging from data acquisition and preparation to model evaluation, refinement, and statistical validation--while highlighting applications to financial decision-making. If time permits, the course will also provide an introduction to deep learning or time-series analysis.

FIN 5850. Real Estate Finance. Units: 3

Semester Prerequisite: (FIN 3001 or FIN 6020) and FIN 3800; or consent of instructor. Quarter Prerequisite: (FIN 313 or FIN 602) and FIN 380; or consent of instructor

Financial aspects of real estate investment, including analysis of investment characteristics, lending environment, financial instruments, and effective loan proposals. Satisfies one of the state requirements toward the real estate broker license. Formerly offered as FIN 585. Materials fee required.

FIN 5860. Computer Applications in Real Estate. Units: 3

Semester Prerequisite: FIN 3800 or consent of instructor. Quarter Prerequisite: FIN 380 or consent of instructor

Introduction to computer skills for real estate. Topics covered include use of social media, professional networking, MS Office and Publisher, real estate presentation, contact management software, Multiple Listing Service, and real estate data analysis. Satisfies one of the state requirements toward the real estate broker license. Formerly offered as FIN 586.

FIN 5880. Real Estate Office Administration. Units: 3

Semester Prerequisite: FIN 3800 or consent of instructor. Quarter Prerequisite: FIN 380 or consent of instructor

Introduction to real estate office administration. Topics covered include recruiting salespeople for retention, selecting office personnel, written instruments between broker and salespeople, continual training, compensation and benefits, financial systems and records, market analysis, growth of a firm, etc. Satisfies one of the state requirements toward the real estate broker license. Formerly offered as FIN 588.

FIN 5915. Seminar in Finance. Unit: 1

An intensive study of some phase of finance to be developed by the instructor. May be repeated for credit as topics change.

FIN 5930. Seminar in Finance. Units: 3

An intensive study of some phase of finance to be developed by the instructor. May be repeated for credit as topics change. Formerly offered as FIN 590.

FIN 5951. Independent Study. Unit: 1

Semester Prerequisite: Junior status, or graduate status
Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Course is cross-listed across different departments within the college.

FIN 5952. Independent Study. Units: 2

Semester Prerequisite: Junior status, or graduate status
Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Formerly offered as 595B. Course is cross-listed across different departments within the college.

FIN 5953. Independent Study. Units: 3

Semester Prerequisite: Junior status, or graduate status
Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Formerly offered as 595D. Course is cross-listed across different departments within the college.

FIN 5955. Independent Study. Unit: 1

Semester Prerequisite: Junior status, or graduate status
Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Course is cross-listed across different departments within the college.

FIN 6020. Financial Theory and Corporate Finance. Units: 3

Modern finance theory and analysis of financial decision making. Topics include agency theory, time value of the money, risk and return, capital asset pricing model, capital market efficiency, bond and stock valuation, financial planning, cost of capital, capital budgeting, short-term financial management, capital structure, hybrid securities. Case studies are introduced. Formerly FIN 602.

FIN 6220. Entrepreneurial and Venture Finance. Units: 3

Semester Prerequisite: FIN 6020. Quarter Prerequisite: FIN 602
An overview of the financial and investment of entrepreneurial firms. Focus is on financial and investment strategies available to entrepreneurial firms and the criteria for selecting the appropriate strategy. Formerly offered as FIN 622.

FIN 6510. Financial Institutions and Markets. Units: 3

Semester Prerequisite: FIN 6020. Quarter Prerequisite: FIN 602
Analysis of financial institutions and markets. Term structure of interest rates, portfolio theory and flow-fund analysis, deposit-type intermediaries, insurance, pension funds and investment companies, Federal Reserves System, and market regulation and policies. Formerly offered as FIN 651.

FIN 6530. Investment Analysis and Portfolio Management. Units: 3

Semester Prerequisite: FIN 6020. Quarter Prerequisite: FIN 602
Comprehensive introduction to the descriptive and formalized quantitative areas of security analysis, valuation, hedging, and portfolio management. This course includes activity in laboratory and a project analysis. Materials fee required. Formerly offered as FIN 653.

FIN 6540. International Finance. Units: 3

Semester Prerequisite: FIN 6020. Quarter Prerequisite: FIN 602
Study of international financial environment and problems in operation of multinational enterprises with major focus on theory and practice of foreign exchange transactions, money and capital markets, investment decisions, currency risk management, current asset management and comparative financial systems. Formerly offered as FIN 654.

FIN 6755. Internship. Unit: 1

Semester Prerequisite: Consent of college internship coordinator. Quarter Prerequisite: senior standing preferred; consent of instructor and the departments internship coordinator
Supervised work and study in private or public organizations. May be repeated for credit. A total of six units of Jack H. Brown College of Business and Public Administration 5753 or 5755 courses may be applied toward graduation. Graded credit/no credit.

FIN 6770. Financial Data Analytics with Python and SQL. Units: 3

This course offers a comprehensive exploration of essential financial concepts and portfolio management strategies, designed to equip students with the practical skills necessary for today's finance industry. Using Python, Excel, and SQL as key tools, students will actively apply financial theories to real-world scenarios. Through hands-on projects, they will develop the ability to optimize portfolios, assess and manage financial risks, and gain insights into market trends.

FIN 6771. Ethical and Professional Standards. Units: 3

Professional codes, standards, guidelines, ethical practices, regulations, and laws relevant to the investment industry. Topics include CFA Institute Code of Ethics and Standards of Professional Conduct, Code of Professional Conduct, Research Objectivity Standards, and Soft Dollar Standards. Formally offered as FIN 661.

FIN 6772. Quantitative Methods for Finance. Units: 3

Quantitative techniques employed in finance. Topics include time value of money, probability distributions and descriptive statistics, sampling and estimation, hypothesis testing, statistical regression models, dynamic models including time series analysis and forecasting, simulation methods, and technical analysis applied to financial asset valuation.

FIN 6773. Financial Market and Environment. Units: 3

Introduction to the structure and the function of financial markets and the role of financial institutions. Explores the principles that connect financial markets, financial institutions, and the economy. Topics include the firm and market structures, market efficiency, equilibrium and business cycles, monetary policy, and fiscal policy. Formally offered as FIN 663.

FIN 6774. Financial Statement Analysis I. Units: 3

Principal financial reporting system. Topics include analysis of principal financial statements, inventories and long lived assets, taxes, debt, and off balance sheet. Formally offered as FIN 664.

FIN 6775. Financial Statement Analysis II. Units: 3

Semester Prerequisite: FIN 6774. Quarter Prerequisite: FIN 664
Advanced financial reporting system. Topics include analysis of pensions, stock compensation, and other employee benefits; inter-corporate investments; business combinations; global operations; and ratio. Formally offered as FIN 665.

FIN 6776. Advanced Corporate Finance. Units: 3

Semester Prerequisite: FIN 6775
The optimal strategic decision-making in finance. Topics include corporate governance, dividend policy, capital investment decisions, business and financial risk, capital structure decisions, working capital management, mergers and acquisitions, and corporate restructuring. Students will be assigned to a project management case analyzing the financial status of a firm and offer suggestions to improve its performance or financial status. Students will communicate their analysis and develop financial analytics skill. Course equivalent to FIN 5300; credit may not be awarded for both.

FIN 6777. Portfolio Management. Units: 3

Semester Prerequisite: FIN 6776
Modern portfolio management theory, practice, and analysis. Topics include investment policy, modern portfolio management, behavioral finance, management of portfolios, tax efficiency strategies, asset allocation, portfolio construction and revision, risk management, execution of portfolio decisions, and performance evaluation. Students will be assigned to a project management exploring the risk and return analysis and portfolio management. Students will communicate their analysis and develop financial analytics skill. Equivalent to FIN 5350; credit may not be awarded for both.

FIN 6778. Global Equity Investment. Units: 3

Semester Prerequisite: FIN 6776. Quarter Prerequisite: FIN 666
Equity Investment in global context. Topics include currency exchange rates, international trade and capital flows; global equity markets characteristics, institutions, and benchmarks; types of equity securities and their characteristics; valuation of individual equity securities; and fundamental analysis. Formally offered as FIN 668.

FIN 6779. Fixed Income. Units: 3

Semester Prerequisite: FIN 6776. Quarter Prerequisite: FIN 666
Fixed income investment. Topics include types of fixed-income securities and their characteristics, fixed-income markets, fixed-income portfolio benchmarks, fixed-income valuation and return analysis, term structure, analysis of interest rate risk, analysis of credit risk, valuing bonds with embedded options, structured products, fixed-income portfolio management strategies, and duration. Formally offered as FIN 669.

FIN 6780. Derivative and Alternative Investment. Units: 3

Semester Prerequisite: FIN 6776. Quarter Prerequisite: FIN 666
Modern theory and practice of derivative securities and alternative investments. Topics include options, forward, and futures, and swap contracts and their valuation; usage of derivatives in portfolio management; credit derivatives markets and instruments; real estate valuation; private equity and venture capital valuation; hedge fund strategies; commodities and managed futures; and alternative investments and their characteristics. Course equivalent to FIN 5270; credit may not be awarded for both. Formally offered as FIN 670.

FIN 6790. Comprehensive Investment Analysis. Units: 3

Semester Prerequisite: Completion of 11 courses of the Master of Science in Finance (MSF) program. Quarter Prerequisite: Completion of 11 courses of the Master of Science in Finance (MSF) program
Comprehensive course develops the future investment manager's analysis skills and integrating knowledge from the Master of Science in Finance courses. Topics cover a wide range of investment tools and portfolio management, and asset valuation. Formally offered as FIN 696.

FIN 6800. Corporate Financial Strategy. Units: 3

Semester Prerequisite: FIN 6020 or consent of instructor. Quarter Prerequisite: FIN 602 or consent of instructor
Advanced topics in the field of corporate finance such as mergers and acquisitions, capital structure policy, capital budgeting, and corporate restructuring. Emphasizes financial strategy and includes lecture and case study. Formerly FIN 680.

FIN 6980. Finance Comprehensive Examination. Units: 0

An assessment of student ability to integrate the knowledge of finance area, show critical and independent thinking, and demonstrate mastery of the subject matter in Finance. May be taken after advancement to candidacy. May be repeated for credit. Graded credit/no credit.

FIN 6985. MSF Portfolio. Units: 0

Semester Prerequisite: Advancement to candidacy, approval of department, completion of 11 courses in the Master of Science in Finance (MSF) program and in good academic standing
Preparation and submission of a portfolio containing assignments representing successful work in the Master of Science in Finance (MSF) program, accompanied by a reflective essay showing how the portfolio demonstrates the accomplishment of the goals of the program. Graded credit/no credit.

FIN 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

FIN 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

FIN 6992. Continuous Enrollment for Graduate Candidacy Standing. Units: 2

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

FIN 6993. Continuous Enrollment for Graduate Candidacy Standing. Units: 3

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

FIN 6994. Continuous Enrollment for Graduate Candidacy Standing. Units: 4

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

FIN 6995. Continuous Enrollment for Graduate Candidacy Standing. Units: 5

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

FIN 6996. Continuous Enrollment for Graduate Candidacy Standing. Units: 6

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

French (FREN)

Courses

FREN 1102. Beginning French Activity Lab. Unit: 1

Semester Corequisite: FREN 1112 Beginning French 2 or consent of department

Practice conversational French with confidence in an informal and relaxed setting. Activities will correspond to topics in Beginning French 2. Graded credit/no credit.

FREN 1111. Beginning French 1. Units: 4

Bonjour! Explore other cultures through the French language. Learn to formulate and respond to questions about daily life, preferences and feelings. Practice speaking, reading, listening and writing so you can communicate with others using simple French. This is the place to start if you've never studied French before.Materials fee required.

FREN 1112. Beginning French 2. Units: 3

Semester Prerequisite: 2 years high school language study, placement exam, equivalent college-level course (eg FREN 1111) or consent of department

Parlez-vous français? Continue to develop your ability to use French in a variety of cultural contexts. Practice routine social situations through speaking, listening, reading and writing. Learn to recount events in the past, present, and future. Satisfies GE C2/3B, DI, G designations. Materials fee required.

FREN 1151. Accelerated Beginning French. Units: 7

Intensive course that combines the content of Beginning French 1 and 2 at an accelerated pace. Emphasizes active use of the language through the development of skills in listening, speaking, reading, and writing. Six hours of seminar and 2 hours of activity. Materials fee required.

FREN 2111. Introduction to the Francophone World. Units: 4

Semester Prerequisite: FREN 1112 and 1102, or FREN 1151 or consent of department. Quarter Prerequisite: FREN 103 or FREN 150

What are the characteristics of diverse French-speaking communities around the world? Improve your French through a study of stories, films, cultural practices and the arts to better understand the unique perspectives these cultures contribute. Materials fee required.

FREN 2112. Introduction to French Media. Units: 4

Semester Prerequisite: FREN 1112 and 1102, or FREN 1151 or consent of department

Is French hip-hop culture the same as ours? Develop your language and cultural proficiency through contemporary media such as music, movies, radio (podcasts) and online magazines. Materials fee required.

FREN 2113. Introduction to Reading & Interpretation. Units: 4

Semester Prerequisite: FREN 1112 and 1102, or FREN 1151 or consent of department

What makes a story interesting? Read short stories from around the world while discovering French cultures and developing your interpretive skills. Materials fee required.

FREN 2114. Introduction to French Culture. Units: 4

Semester Prerequisite: FREN 1112 and 1102, or FREN 1151 or consent of department

One kiss or two? Become familiar with French etiquette, culture and cuisine through an exploration of French values, family structures and daily life while you develop your proficiency in French. Materials fee required.

FREN 2900. French Literature and Film in English. Units: 3

Introduction to French literature and film in English translation. Satisfies GE C2/3B, DI, G designations. Materials fee required.

FREN 3000. Enhancing Your French. Unit: 1

Semester Prerequisite: FREN 2111, FREN 2112, FREN 2113, or FREN 2114 or consent of department

Are you prepared for upper-division courses? Acquire important skills to succeed and achieve your goals with your French studies as an undergraduate and beyond. Discover opportunities for French majors & minors in careers, graduate school and study abroad. Materials fee required.

FREN 3111. Approaches to French Literature. Units: 3

Semester Prerequisite: FREN 3000 or consent of department

Why does literature matter so deeply to the French? Experience the joys of the French language as you learn how to read, interpret, understand, and explain a variety of literary genres (short stories, novels, poetry, theatre). Materials fee required.

FREN 3112. From Cannes to Cameroon: Francophone Cinema and Culture. Units: 3

Semester Prerequisite: FREN 3000 or consent of department. Quarter Prerequisite: FREN 295

Why do the French call film the "seventh art"? Analysis of Francophone cultures, literatures and themes through French-language films. Materials fee required.

FREN 3113. Geographies of Identity: Francophone Cultures in Context. Units: 3

Semester Prerequisite: FREN 3000 or consent of department

Does your birthplace determine who you are? Examine how cultural identities are revealed through Francophone literatures, films, and histories. Materials fee required.

FREN 3114. Paris: Cultural and Historical Capital. Units: 3

Semester Prerequisite: FREN 3000 or consent of department. Quarter Prerequisite: FREN 295

Who are the Parisians? Explore contemporary Parisian society through its institutions, monuments, values and geographic distinctions. Artistic movements, intellectual achievements, and cultural practices will be highlighted. Materials fee required.

FREN 3150. French Conversation Lab. Unit: 1

Semester Prerequisite: FREN 3000 or consent of department

Practice speaking French through the reading and discussion of current topics. May be repeated for credit up to a maximum of 4 units.

FREN 3160. French Writing Lab. Unit: 1

Semester Prerequisite: FREN 3000 or consent of department

Practice strategies to improve your writing, as well as review grammatical structures. May be repeated for credit up to a maximum of 4 units.

FREN 3320. French Translation. Units: 3

Semester Prerequisite: FREN 3000 or consent of department

Comment dit-on...? Understand the craft of translation between English and French, and learn how to avoid common mistakes through a review of different strategies favored across genres. Materials fee required.

FREN 3550. French Phonetics. Units: 3

Semester Prerequisite: FREN 3000 or consent of department

Tu ou tout? Improve your French pronunciation through an in-depth study of the sound system. Oral practice and study of general principles of French phonology and dialectology. Formerly FREN 307. Materials fee required.

FREN 3701. Study Abroad. Unit: 1

Research project based on traveling or living in a French-speaking country. Research for the project will be completed in the country of choice. When study is associated with an academic program, copies of grades, syllabus and submitted work may substitute for research project. May be taken for up to 4 study abroad units. Graded credit/no credit. Departmental consent required.

FREN 3702. Study Abroad. Units: 2

Research project based on traveling or living in a French-speaking country. Research for the project will be completed in the country of choice. When study is associated with an academic program, copies of grades, syllabus and submitted work may substitute for research project. May be taken for up to 4 study abroad units. Graded credit/nocredit. Departmental consent required.

FREN 3703. Study Abroad. Units: 3

Research project based on traveling or living in a French-speaking country. Research for the project will be completed in the country of choice. When study is associated with an academic program, copies of grades, syllabus and submitted work may substitute for research project. Graded credit/nocredit. Departmental consent required.

FREN 3704. Study Abroad. Units: 4

Research project based on traveling or living in a French-speaking country. Research for the project will be completed in the country of choice. When study is associated with an academic program, copies of grades, syllabus and submitted work may substitute for research project. Graded credit/nocredit. Departmental consent required.

FREN 3900. Voices & Visions from the French-Speaking World. Units: 3

Does language define who you are? Through the study of literature from diverse French-speaking cultures, students will examine themes of identity formation through language. Satisfies GE C4/UD-3, G, WI designations. May be taken again for up to 9 units as topics change. Taught in English. Materials fee required.

FREN 3960. French for Reading 1. Units: 3

Students read French and translate from French to English. No prior knowledge of French is necessary. Students move from a novice level of reading skill to an intermediate level. This course is not applicable towards the Bachelor of Arts in French. Formerly FREN 301. Materials fee required.

FREN 3961. French for Reading 2. Units: 3

Semester Prerequisite: FREN 3960 or consent of department. Quarter Prerequisite: FREN 301

Building on the French reading skills of FREN 3960, students move from an intermediate level of reading skill to an advanced level; by the end of the course students will be able to translate scholarly articles in French from a variety of disciplines into English. This course is not applicable towards the Bachelor of Arts in French. Formerly FREN 302. Materials fee required.

FREN 4150. Interconnections: French Literature and Ideas. Units: 3

Semester Prerequisite: FREN 3000 or consent of department. Quarter Prerequisite: FREN 295

Critical examination of selected works in Francophone literature focusing on a particular theme or literary movement. May be taken for up to 6 units as topics change. Materials fee required.

FREN 4250. French Fêtes: Music, Cuisine and the Arts. Units: 3

Semester Prerequisite: FREN 3000 or consent of department

In-depth study of French culture through literature, film/media, and the arts. May be taken for up to 9 units as topics change. Materials fee required.

FREN 4350. Intersections: Topics in French Civilization. Units: 3

Semester Prerequisite: FREN 3000 or consent of department. Prerequisite: FREN 295 or consent of department

An integrated picture of how historical, political, economic, social, geographical and cultural forces shaped France and the Francophone world. May be taken for up to 9 units as topics change. Materials fee required.

FREN 4450. French Means Business. Units: 3

Semester Prerequisite: FREN 3000 or consent of department
Introduction to business language and practices in French-speaking countries. May be taken for up to 9 units as topics change. Materials fee required.

FREN 4550. Introduction to French Linguistics. Units: 3

Semester Prerequisite: FREN 3000 or consent of department. Quarter Prerequisite: FREN 295 and FREN 307 or consent of department
What is unique about French? Introduction to the linguistic analysis of the French language, including its sound system (phonetics, phonology), its rules of word formation (morphology) and sentence structure (syntax), its system of word meaning (semantics), and its variation as a function of social and regional factors (sociolinguistics). Formerly FREN 407. Materials fee required.

Geography (GEOG)

Courses

GEOG 1010. Introduction to Human Geography. Units: 3

Introduction to the global patterns and dynamics of such human activities as population growth and movements, politics, religion, language, urbanization, industrialization, and economic development. The course emphasizes the processes that produce regional and environmental differences. Satisfies GE D3/4, G designation, World Cultures and Diversity pathway.

GEOG 1030. Physical Geography. Units: 3

Semester Corequisite: GEOG 1030L
A survey of Earth's environmental systems and natural features, with emphasis on relationships between the atmosphere, landforms, ecosystems, and human activities. Three hours lecture. Satisfies the general education requirement for scientific inquiry in physical science Satisfies GE B1/5A.

GEOG 1030L. Physical Geography Laboratory. Unit: 1

Semester Corequisite: GEOG 1030
Physical geography laboratory course that provides environmental observations and scientific experiments to study the spatial patterns, processes, and relationships of Earth's atmosphere, hydrosphere, lithosphere, and biosphere. Three hours lab. Satisfies GE B3/5C. Materials fee required.

GEOG 1070. Environmental Studies Orientation Seminar. Units: 2

Semester Corequisite: Enrollment required first term that student has declared the Environmental Studies Major
Analysis and development of foundation academic skills and inquiry to support career pathway goals in environmental studies, including baseline assessment of student learning outcomes for the Environmental Studies B.A. degree program. Student advising includes the preparation of graduation plans. Enrollment is required the first term that this major is declared. Graded credit/no credit.

GEOG 1650. World Regions and Peoples. Units: 3

Survey of major regions of the world using general physical and cultural concepts to explain patterns and problems of human activities in relation to natural environments. Satisfies GE D3/4, DI, G designations, World Cultures and Diversity, Global Connections pathways.

GEOG 2000. Environment and Society. Units: 3

An interdisciplinary study of relationships between social and natural systems comprising modern environmental issues. This course is a core requirement of the Environmental Studies major and minor. Satisfies GE D3/4, G designation, Environmental Sustainability pathway.

GEOG 2040. Water in the West. Units: 3

Within the framework of Western North America, water use has been a historically contentious issue that still persists today. The course will provide an overview of the fundamentals of hydrology, and through quantitative reasoning and integrative learning examine the impact that the use of water resources have upon the physical and human environment. The historical, present, and future significance of these impacts will be examined through the lens of the global community, and social/economic justice. The effects of climate change and policy on water availability will be examined. Satisfies GE B1/5A, G designation.

GEOG 2200. Introduction to Global Studies. Units: 3

Quarter Prerequisite: SSCI 165 or consent of instructor
Examine the causes and consequences of globalization, including climate change, migration, cultural conflicts, and economics. Understand worldviews, varying cultural contexts and global institutions and their connection to globalization. Develop the skills necessary to be a global citizen and have global competency. Formerly known as GEOG 303.

GEOG 2201. Issues in the Global System. Units: 3

Identifies and explores a wide range of issues (for example, refugees, terrorism, poverty/underdevelopment and climate change) that impact the global community and are connected to economic, cultural, political and environmental globalization. Emphasizes the varied techniques used to analyze information about globalization and its related issues.

GEOG 2249. Map Interpretation. Units: 3

Introduction to maps as a communication tool, focusing on map fundamentals, such as scale, symbols and design, as well as using maps as a practical device for navigation and spatial measurement. Participation in a weekend outdoor map reading exercise is required. Formerly GEOG 201.

GEOG 2250. Introduction to Geographic Information Systems and Cartography. Units: 4

An introduction to the fundamental principles and theories of geographic information systems (GIS) and cartography. Basic concepts of mapping, map projections, coordinate systems, geographic data models and data input, management, manipulation and analysis are covered. After completion of this course, Students will be able to use GIS software to make maps and solve simple spatial problems. Three hours lecture and two hours activity. Formerly offered as GEOG 202.

GEOG 3004. Field Methods in Geography. Units: 3

Semester Prerequisite: GEOG 1030 and GEOG 2249. Quarter Prerequisite: GEOG 103 and 201
Introduction to methods and techniques for the acquisition of geographic data from direct field measurement and observations. One hour lecture and six hours field activity. Materials fee required. Formerly offered as GEOG 304.

GEOG 3018. Geographic Statistics and Research Methods. Units: 3

Introduction to research and presentation techniques. It will also include basic statistical concepts and qualitative techniques used in geography(including spatial analysis and the writing/presenting of geographic research projects).

GEOG 3020. Social Geography. Units: 3

Semester Prerequisite: Upper division standing or permission from instructor
The spatial relationships of social characteristics, processes, institutions, and social groups. How social processes and identities are intertwined with the places where we live. Formerly offered as GEOG 320.

GEOG 3030. Cultural Geography. Units: 3

Semester Prerequisite: Upper division standing or permission from instructor
Study of people and the places where they live by analyzing cultural processes, cultural landscapes, and cultural identities. Introduces culture from a geographical perspective, focusing on cultural processes in place and across space.

GEOG 3040. Urban Geography. Units: 3

Semester Prerequisite: Upper division standing or permission from instructor
Analysis of urban life, land use planning, urban processes such as cultural diversity, suburbanization, urban environment, and social trends. Formerly known as GEOG 440.

GEOG 3045. Global Cities. Units: 3

Semester Prerequisite: Upper division standing or permission from instructor. Quarter Prerequisite: junior or senior standing
Analysis of global cities and the processes of change within the urban environment from a spatial perspective. Cities as centers of technological innovation and business entrepreneurial success, and places of challenges such as urban environmental quality and quality of life due to social conflict and inequality. Urban information systems approach is used to understand urban problems and potential policy solutions. Satisfies G designation. Formerly known as SSCI 321.

GEOG 3050. Economic Geography. Units: 3

Semester Prerequisite: Upper division standing or permission from instructor
Processes driving spatial patterns of economic activity at the global, national, regional, and local scales. Topics include economic globalization, spatial distribution of resources, business, labor, economic institutions, and trade producing uneven geographies of economic development. Formerly known as GEOG 420.

GEOG 3060. Political Geography. Units: 3

Semester Prerequisite: Upper division standing or permission from instructor. Quarter Prerequisite: GEOG 100
Examination of the interactions between political processes, space, place, and environment at geographic scales ranging from international to local. Topics include nation-state formation, geopolitics, imperialism and colonialism, the environment, elections and representation and the role of the contemporary state. Formerly a topic under GEOG 390. Formerly known as GEOG 325.

GEOG 3065. Migration and Borderlands. Units: 3

Semester Prerequisite: Upper division standing or permission from instructor
Global migration processes and territorial sovereignty. Focus on areas of the world that are currently and historically important sending and destination regions for refugees and other types of migrations. Role of borders in migration is examined.

GEOG 3300. Weather and Climate. Units: 4

Semester Prerequisite: GEOG 1030 or GEOL 1000 or consent of instructor. Quarter Prerequisite: GEOG 103 or consent of instructor
An examination of atmospheric processes and the relationships between the atmosphere, hydrosphere, lithosphere and biosphere that influence local, regional and global patterns of weather and climate. Relationships between human activity, vegetation patterns, weather and climate will be discussed. Materials fee required. Three hours lecture and three hours lab. Formerly GEOG 360.

GEOG 3500. Conservation and Natural Resources. Units: 3

Semester Prerequisite: GEOG 1030 or GEOL 1000 or consent of instructor; and GEOG 2000
Principles of resource utilization and ecology as they involve human development and politico-economic policy. Formerly known as GEOG 350.

GEOG 3501. Environmental Sustainability. Units: 3

This course explores how human activities can be altered to meet the needs of both current and future generations to ensure long-term sustainability of the Earth's environmental systems and resources. Topics include, but are not limited to, sustainable approaches to agricultural production, urban development, resource conservation, and stakeholder inclusion across varying geographical scales including the CSUSB campus and surrounding communities. Satisfies GE D4/UD-4.

GEOG 3520. Environmental Inquiry and Education. Units: 4

Quarter Prerequisite: Must be junior class standing or higher
This course is designed to prepare students for developing and implementing environmental education opportunities in formal and non-formal education settings. Topics include the history and philosophy of environmental education, environmental laws and regulations, environmental assessment using various technologies and methods, critical analysis of environmental issues and decision-making, curriculum integration and environmental education teaching methodologies. Students will learn how to disseminate complex scientific-based information into a format that is useful for diverse audiences in the K-12 and community settings. Materials fee required. Three hours lecture and 3 hours lab. Formerly known as GEOG 311.

GEOG 3521. Environmental Inquiry and Education. Units: 3

This course is designed to prepare students for developing and implementing environmental education opportunities in formal and non-formal education settings. Topics include the history and philosophy of environmental education, environmental laws and regulations, environmental assessment using various technologies and methods, critical analysis of environmental issues and decision-making, curriculum integration and environmental education teaching methodologies. Students will learn how to disseminate complex scientific-based information into a format that is useful for diverse audiences in the K-12 and community settings. Formerly known as GEOG 311.

GEOG 3605. Geography in the Elementary and Middle School Classroom. Units: 3

Introduces liberal studies students to geography in the California/Social Science Standards. Students learn to integrate geographic principles and theories with the other social sciences. May not be counted toward fulfillment of requirements in the geography major or minor. Formerly known as GEOG 300.

GEOG 3630. Environmental Justice. Units: 3

Semester Prerequisite: Junior or Graduate standing or with instructor consent

Examines how and why inequalities arise and are maintained in environmental policy and management, distribution of environmental benefits and hazards, and historical and contemporary factors that shape the environmental justice movement.

GEOG 3701. Environmental Policy and Impact Assessment. Units: 3

Semester Corequisite: Must be Junior standing or greater

This course provides an introduction to environmental policy/laws including the policy process, behavior of interest groups and the actions of policymakers across local, state and federal government entities. Focus will also be given to the historical context of environmental policies and the role of science and stakeholders in evolving environmental policies and related programs. The course will also examine significant environmental issues such as pollution control, climate change, habitat conservation and the protection of biodiversity.

GEOG 3710. Advanced Geographic Information Systems. Units: 4

Semester Prerequisite: GEOG 2250 or consent of instructor. Quarter Prerequisite: GEOG 202 or consent of instructor

Advanced study of the principles and theories in geographic information systems (GIS). Emphasis on Raster data analysis, Network Analysis, 3D analysis etc. Students will be able to solve complex spatial problems using GIS concepts and GIS software packages. Three hours lecture and two hours activity. Formerly offered as GEOG 308.

GEOG 3730. Geo-Spatial Analysis. Units: 3

Semester Prerequisite: GEOG 2250 or consent of instructor. Quarter Prerequisite: GEOG 202 or consent of instructor

This course is an advanced course in geographic techniques focusing on analytical methods and implementation strategies. It is designed to examine the concepts and applications of spatial statistics in Geography. upon completion of this course, students will demonstrate the ability to analyze geographic data from a spatial statistics perspective. Formerly offered as GEOG 315.

GEOG 3900. Emerging Topics in Human Geography. Units: 3

Semester Prerequisite: Junior or Senior standing or with instructor consent

Examination of emerging topics of current interest in human geography. May be repeated for credit, as topics change. Formerly known as GEOG 390.

GEOG 3901. Emerging Topics in Physical Geography. Units: 3

Semester Prerequisite: Junior or Senior standing or with instructor consent

Examination of emerging topics of current interest in physical geography. May be repeated for credit, as topics change.

GEOG 3902. Emerging Topics in Environmental Studies. Units: 3

Semester Prerequisite: Junior or Senior standing or with instructor consent

Examination of emerging topics of current interest in environmental studies. May be repeated for credit, as topics change.

GEOG 3903. Emerging Topics in Global Studies. Units: 3

Semester Prerequisite: Junior or Senior standing or with instructor consent

Examination of emerging topics of current interest in global studies. May be repeated for credit, as topics change.

GEOG 3904. Emerging Topics in GIS and Spatial Techniques. Units: 3

Semester Prerequisite: Junior or Senior standing or with instructor consent

Examination of emerging topics of current interest in geographic information systems (GIS) and spatial techniques. May be repeated for credit, as topics change.

GEOG 4050. Geography of California. Units: 3

Semester Prerequisite: Upper division standing or permission from instructor

Exploration of California's natural and cultural environments with emphasis on social and economic issues, and nature society relations. Formerly known as GEOG 302.

GEOG 4055. US-Mexico Border Region. Units: 3

Semester Prerequisite: Upper division standing or permission from instructor

Introduction to U.S.-Mexico border issues, including the social interactions and processes that distinguish the area. Analysis will focus on the characteristics of everyday life as shaped by political, economic, and cultural issues from inside and outside the region. Formerly known as GEOG 322.

GEOG 4060. Emerging World Regions. Units: 3

Semester Prerequisite: Upper division standing or permission from instructor

Geographic exploration of one or all of the emerging regions of the world, including economic, political, social, cultural, and environmental issues. Formerly known as GEOG 312.

GEOG 4070. Advanced World Regions. Units: 3

Semester Prerequisite: Upper division standing or permission from instructor
Geographic exploration of one or all of the advanced regions of the world, including economic, political, social, cultural, and environmental issues. Formerly known as GEOG 313.

GEOG 4080. Geography of Tourism. Units: 3

Semester Prerequisite: Upper division standing or permission from instructor
Examination of tourism as a global, national and local phenomenon, with economic, social, and environmental impacts; tourism trends; mass versus alternative tourism.

GEOG 4250. Watershed Hydrology and Management. Units: 4

Quarter Prerequisite: GEOG 1030 or consent of instructor
This course will explore the basic principles of surface hydrology: relationships between atmospheric, surface, and groundwater phenomena; streamflow and flood prediction; water supply and quality. Surface hydrology will be observed using the watershed scale to determine how human-environmental relationships in one reach of the watershed may impact water resources in other reaches of the same watershed. The Clean Water Act and localized water management strategies including stormwater best management practices will also be discussed. Materials fee required. Three hours lecture and three hours lab. Formerly known as GEOG 470.

GEOG 4300. Biogeography. Units: 4

Semester Prerequisite: BIOL 1000; and GEOG 1030 or GEOL 1000; and GEOG 2250; or consent of instructor. Quarter Prerequisite: BIOL 100 or HSCI 120; and GEOG 103; or consent of instructor
Analysis of spatial and temporal distributions of organisms in the environment at multiple scales, to understand the effects of physical, biological, and historical conditions on patterns of abundance and diversity of taxa in regions. Application of concepts to habitat conservation planning will be discussed, as will methods for determining spatial patterning. Materials fee required. Three hours lecture and three hours lab. Formerly known as GEOG 370.

GEOG 4360. Climate Change. Units: 3

Semester Prerequisite: GEOG 1030 or GEOL 1000. Quarter Prerequisite: GEOG 103 or GEOL 101
An examination of past climates, modern climates, and evidence for future climate change. Students are required to attend two-weekend field trips. Formerly known as GEOG 365.

GEOG 4400. Geomorphology. Units: 3

Semester Prerequisite: GEOG 1030 or GEOL 1000 or consent of instructor. Quarter Prerequisite: GEOG 103 or GEOL 101 or consent of instructor
Landforms and the processes that create them. Multi-day field trip required.

GEOG 4450. Globalization and Identity. Units: 3

Semester Prerequisite: Junior or senior status or permission of the instructor
Explores how globalization influences individual identities, group identities, and societal identities. Study of the origin and evolution of national, ethnic and supranational identities and how global forces are connected to these developments. Ethno-nationalism, territorial conflict as connected to globalization and identity interaction will be examined.

GEOG 4651. Coastal Resources Management. Units: 4

Semester Prerequisite: GEOG 1030, GEOL 1000 or consent of instructor
This course is an interdisciplinary approach to understanding the complex relationships between coastal resources and human activities. Coastal environment, coastal resources, structure and role of government in coastal resources policy, critical research issues in coastal and estuarine ecology, coastal geosciences, marine affairs and policy, and maritime studies will be assessed through local, regional and international case studies. Participation in a Saturday field trip, lab and materials fee required.

GEOG 4710. Water Wars. Units: 3

Semester Corequisite: Must have junior standing
This course will explore how historic and present-day approaches to water resource management and changing environmental conditions have resulted in water scarcity across various geographical scales. Students will explore the complex issues surrounding "water wars" through a series of case studies that assess the cultural, political and environmental relationships that culminate in the scarcity of water resources for humans and ecosystems alike.

GEOG 4750. Ecosystem Assessment. Units: 4

Semester Prerequisite: GEOG 1030 or GEOL 1000 or HSCI 1200; and GEOG 2250. Prerequisite: GEOG 103 or GEOL 100 or HSCI 120; and GEOG 202
Concepts, techniques, and field methods used to identify and prescribe best management practices for sustaining ecosystem integrity in disturbed landscapes. This course uses a hands on approach to develop skills used to quantitatively measure and assess ecological conditions for environmental monitoring applications, including field sampling methods and data analysis of soils, vegetation types, wildlife habitat, and interactions with environmental systems. Materials fee required.

GEOG 4850. Web GIS. Units: 4

Semester Prerequisite: GEOG 2250 or consent of instructor. Prerequisite: GEOG 202
This course provides students with the state-of-art technical skills and knowledge necessary to develop Web GIS applications and to manage Web GIS. Upon completion of this course, students are able to understand the basic concepts of Web GIS and grasp the latest techniques in developing Web GIS applications. Three hours lecture and two hours activity.

GEOG 4860. GIS and Socio-Economic Applications. Units: 4

Semester Prerequisite: GEOG 2250 or consent of instructor. Quarter Prerequisite: GEOG 202 or consent of instructor

This course will prepare students with advanced knowledge and skills for several applications of GIS in Social sciences. It will include applications in but not limited to Urban Information Systems, Business and Market analysis, Geodemographic, Health, and Crime Analysis. It will include major debates and developments in GIS and with a high level of skills for use of software, hardware for analyzing and visualizing of geographic data. The class will include guest speakers, lectures, lab/activity, and independent and a group projects to ensure a strong relationship between several concepts and several applications. Three hours lecture and two hours laboratory. Materials fee required. Formerly known as GEOG 402.

GEOG 4870. Environmental GIS. Units: 4

Semester Prerequisite: GEOG 1030 or GEOL 1000 or HSCI 1200; and GEOG 2250. Quarter Prerequisite: GEOG 103 or GEOL 100 or HSCI 120; and GEOG 202

Introduction to concepts, methods, techniques, tools, and geospatial data used in geographical information systems (GIS) for environmental analyses, modelling, and decision making. Materials fee required.

GEOG 4880. Remote Sensing of the Environment. Units: 4

Semester Prerequisite: GEOG 2250 or consent of instructor. Quarter Prerequisite: GEOG 103 or consent of instructor

Fundamental principles and techniques of remote sensing, Remotely-sensed data acquisition, processing, interpretation, and analysis, as well as photogrammetry, are covered. Upon completion of this course, students will understand the basic concept of remote sensing, know the various types of remotely-sensed data and satellite programs, and grasp the techniques of analyzing and interpreting both analog and digital images. Three hours lecture and two hours activity. Formerly GEOG 306 and GEOG 406.

GEOG 5000. Senior Seminar. Units: 2

Quarter Prerequisite: Senior standing in GEOG or ENVS

An assessment of academic progress is required of all geography, geography with global studies concentration, and environmental studies majors. Formerly known as GEOG 500.

GEOG 5004. Advanced Field Methods in Geography. Units: 3

Semester Prerequisite: GEOG 1030 or GEOL 1000 or HSCI 1000 or GEOG 2249. Prerequisite: GEOG 103 and 201

Semester Corequisite: Must be junior or senior class standing

Advanced methods and techniques for the acquisition of geographic data from direct field measurement and observations. One hour lecture and six hours field activity. Materials fee required.

GEOG 5150. Global Governance and the United Nations System. Units: 3

Explores the inner workings of the principal organs of the United Nations (UN) and the related agencies. Examines how the global community is connected to the UN system and how the UN attempts to address issues around the globe in the local, regional, national and international networks. Shows how the UN tries to manage these international issues relating to international peace and security and humanitarian situations. Satisfies GE D4/UD-4, G designation, Global Connections pathway.

GEOG 5240. National Parks and Public Lands. Units: 3

Semester Prerequisite: Junior or Graduate standing or with instructor consent

Provides a survey of the environmental, cultural, and political geography of national parks and public lands of the United States. This course will explore how the U.S. national park model developed and how it shaped public land environmental policy and management in the United States and the world. Cultural and natural resources, environmental and social justice, tourism, outdoor recreation, and economic impact will be assessed through local, national, and international case studies. Experiential learning activities will include field site visits to national and/or state parks and community engagement with park managers and environmental associations. The course is open to both undergraduates and graduate students. Participation in Friday and/or Saturday field trips. Materials fee required.

GEOG 5300. Advanced Topics in Human Geography. Units: 3

Semester Prerequisite: Senior or Graduate standing or with instructor consent

Provides an in-depth analysis of a current topic being examined by human geography. This course is intended to allow students to apply knowledge gained in other human geography courses to explore a current topic in a critical manner. The course is open to both undergraduates and graduate students. May be repeated for credit as topics change.

GEOG 5301. Advanced Topics in Environmental Studies. Units: 3

Provides an in-depth analysis of a current topic being examined by environmental studies. This course is intended to allow students to apply knowledge gained in other geography and environmental studies courses to explore a current topic in a critical manner. The course is open to both undergraduates and graduate students. May be repeated for credit as topics change.

GEOG 5302. Advanced Topics in Global Studies. Units: 3

Semester Prerequisite: Senior or Graduate standing or with instructor consent

Provides an in-depth analysis of a current topic being examined by global studies. This course is intended to allow students to apply knowledge gained in other global studies courses to explore a current topic in a critical manner. The course is open to both undergraduates and graduate students. May be repeated for credit as topics change.

GEOG 5303. Advanced Topics in GIS and Spatial Techniques. Units: 3

Semester Prerequisite: Senior or Graduate standing or with instructor consent

Provides an in-depth analysis of a current topic being examined by GIS and Spatial Technique scholars. This course is intended to allow students to apply knowledge gained in other GIS and Spatial Technique courses to explore a current topic in a critical manner. The course is open to both undergraduates and graduate students. May be repeated for credit as topics change.

GEOG 5351. Professional Conferences. Unit: 1

Semester Corequisite: Must be junior or senior class standing
Introduction to the role of conferences in professional development, including practice in the preparation and exhibition of research by posters, oral presentations, and panel discussions. Students attend a professional conferences to participate in research presentations and guided field trips. May require fees for conference registration and travel. Graded credit/no credit.

GEOG 5352. Professional Conferences. Units: 2

Semester Corequisite: Must be junior or senior class standing
Introduction to the role of conferences in professional development, including practice in the preparation and exhibition of research by posters, oral presentations, and panel discussions. Students attend a professional conference to participate in research presentations and guided field trips. May require fees for conference registration and travel. Graded credit/no credit.

GEOG 5551. Laboratory Experience. Unit: 1

Concepts and practice in the application of laboratory methods to analyze samples of environmental materials and data for a variety of directed research topics. May be taken two times for two units in the Environmental Studies major. Graded CR/NC.

GEOG 5552. Laboratory Experience. Units: 2

Concepts and practice in the application of laboratory methods to analyze samples of environmental materials and data for a variety of directed research topics. This course may also include fieldwork to collect sample materials and data. May be taken two times for four units. Graded credit/no credit.

GEOG 5651. Field Experience. Unit: 1

Application of concepts learned through practice of field methods for a variety of topics in environmental monitoring. May be taken two times for two units.

GEOG 5652. Field Experience. Units: 2

Application of concepts learned through practice of field methods for a variety of topics in environmental monitoring. May be taken two times for four units. Graded credit/no credit.

GEOG 5751. Internship in Geography. Unit: 1

Quarter Prerequisite: Consent of Internship Coordinator for the Department of Geography and Environmental Studies
Supervised work in public or private organizations emphasizing practical applications of geographic concepts. Approximately 30 hours are required for one unit of credit. May be taken only once for credit. Graded credit/no credit. Formerly known as GEOG 575D.

GEOG 5752. Internship in Geography. Units: 2

Quarter Prerequisite: Consent of Internship Coordinator for the Department of Geography and Environmental Studies
Supervised work in public or private organizations emphasizing practical applications of geographic concepts. Approximately 60 hours are required for two units of credit. May be taken only once for credit. Graded credit/no credit.

GEOG 5753. Internship in Geography. Units: 3

Quarter Prerequisite: Consent of Internship Coordinator for the Department of Geography and Environmental Studies
Supervised work in public or private organizations emphasizing practical applications of geographic concepts. Approximately 90 hours are required for three units of credit. May be taken only once for credit. Graded credit/no credit.

GEOG 5755. Model United Nations Practicum (Fall Semester MUN Team). Units: 3

Quarter Prerequisite: By instructor consent
An analysis of the role of the United Nations in world politics to prepare students for the National United Nations or related Model United Nations conferences. May be repeated for credit for a maximum of nine units. Students wanting to take this class have to go through the CSUSB Model UN Program Selection Process. Formerly PSCI 515 and SSCI 515. Instructor consent is required to enroll.

GEOG 5756. Model United Nations Practicum (Spring Semester MUN Team). Units: 3

Quarter Prerequisite: By instructor consent
An analysis of the role of the United Nations in world politics to prepare students for the National United Nations or related Model United Nations conferences. May be repeated for credit for a maximum of nine units. Students wanting to take this class have to go through the CSUSB Model UN Program Selection Process. May be taken three times for nine units. Department consent is required. Formerly PSCI 515 and SSCI 515.

GEOG 5761. Study Abroad. Unit: 1

Quarter Prerequisite: Consent required
Explore issues related to geography, environmental studies, global studies and/or GIS and spatial techniques in an international setting through a pre-approved study abroad program at CSUSB. Department consent required.

GEOG 5762. Study Abroad. Units: 2

Quarter Prerequisite: Consent required
Explore issues related to geography, environmental studies, global studies and/or GIS and spatial techniques in an international setting through a pre-approved study abroad program at CSUSB. Department consent required.

GEOG 5763. Study Abroad. Units: 3

Quarter Prerequisite: Consent required
Explore issues related to geography, environmental studies, global studies and/or GIS and spatial techniques in an international setting through a pre-approved study abroad program at CSUSB. Department consent required.

GEOG 5771. Study Away. Unit: 1

Quarter Prerequisite: Consent required
Explore issues related to geography, environmental studies, global studies and/or GIS and spatial techniques in a US domestic setting at a pre-approved study away site. Department consent required.

GEOG 5772. Study Away. Units: 2

Quarter Prerequisite: Consent required
Explore issues related to geography, environmental studies, global studies and/or GIS and spatial techniques in a US domestic setting at a pre-approved study away site. Department consent required.

GEOG 5773. Study Away. Units: 3

Quarter Prerequisite: Consent required

Explore issues related to geography, environmental studies, global studies and/or GIS and spatial techniques in a US domestic setting at a pre-approved study away site. Department consent required.

GEOG 5781. Service Learning in Geography, Global Studies and Environmental Studies. Unit: 1

Application of scholarship in geography, global studies, and environmental studies in a planned service experience in the community. This course will reinforce students' understanding of civic responsibility and engagement, and commitment to the community. May be taken three times for three units.

GEOG 5782. Service Learning in Geography, Global Studies and Environmental Studies. Units: 2

Application of scholarship in geography, global studies and environmental studies in a planned service experience in the community. This course will reinforce student's understanding of civic responsibility and engagement, and commitment to the community. May be taken three times for six units.

GEOG 5783. Service Learning in Geography, Global Studies and Environmental Studies. Units: 3

Application of scholarship in geography, global studies and environmental studies in a planned service experience in the community. This course will reinforce student's understanding of civic responsibility and engagement, and commitment to the community. May be taken three times for nine units.

GEOG 5951. Independent Study. Unit: 1

Quarter Prerequisite: A minimum overall grade point average of 3

A maximum of six units of independent study may be applied toward the major and graduation. Consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken.

GEOG 5952. Independent Study. Units: 2

Quarter Prerequisite: A minimum overall grade point average of 3

A maximum of six units of independent study may be applied toward the major and graduation. Consent of instructor and departmental approval of a written proposal submitted on a standard application filed in advance of the semester in which the course is to be taken. May be taken three times for six units. Formerly GEOG 595B.

GEOG 5953. Independent Study. Units: 3

Quarter Prerequisite: A minimum overall grade point average of 3

A maximum of six units of independent study may be applied toward the major and graduation. Consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. May be taken two times for six units. Formerly known as GEOG 595C.

GEOG 5970. Senior Honors Project - Geography. Units: 3

Quarter Prerequisite: Earned grade point average of at least 3.0 or better overall as an undergraduate, and at least 3.5 in the major, both at this university and overall

Original scholarly work in Geography, culminating in a significant research report. Enrollment is limited to students whose formal application for departmental honors is approved. Graded credit/no credit.

GEOG 5971. Senior Honors Project - Environmental Studies. Units: 3

Quarter Prerequisite: Earned grade point average of at least 3.0 or better overall as an undergraduate, and at least 3.5 in the major, both at this university and overall

Original scholarly work in Environmental Studies, culminating in a significant research report. Enrollment is limited to students whose formal application for departmental honors is approved. Graded credit/no credit.

GEOG 5972. Senior Honors Project - Global Studies. Units: 3

Quarter Prerequisite: Earned grade point average of at least 3.0 or better overall as an undergraduate, and at least 3.5 in the major, both at this university and overall

Original scholarly work in Global Studies, culminating in a significant research report. Enrollment is limited to students whose formal application for departmental honors is approved. Department consent required. Graded credit/no credit.

GEOG 6000. Proseminar in Geography. Units: 2

Semester Prerequisite: Graduate student standing or consent of the instructor. Quarter Prerequisite: Consent of instructor

Survey of the concepts and ideas that geographers employ to study, describe and analyze globalization. Formerly known as GEOG 600.

GEOG 6100. Military Geography for National Security. Units: 3

Semester Prerequisite: Graduate student standing or instructor consent

Examination of the terrain, climate and other physical geography factors that affect national security. Formerly known as GEOG 610.

GEOG 6101. Advanced Studies in Global Studies. Units: 3

Semester Prerequisite: Graduate student standing or consent of the instructor

Intensive study of a current pressing issue facing the global studies discipline. May be taken three times for nine units as the topic changes.

GEOG 6102. Advanced Studies in Global Analysis. Units: 3

Semester Prerequisite: Graduate student standing or consent of the instructor

Intensive study of a current pressing issue ('wicked problem') facing the global community. May be taken three times for nine units as the topic changes.

GEOG 6300. Advanced Environmental Sustainability in the 21st Century. Units: 3

Quarter Prerequisite: Previous undergraduate course in data and policy analysis or consent of instructor

This course explores how human activities can be altered to meet the needs of both current and future generations to ensure long-term sustainability of the Earth's environmental systems and resources. Topics include, but are not limited to, sustainable approaches to agricultural production, urban development, resource conservation, and stakeholder inclusion across varying geographical scales including the CSUSB campus and surrounding communities. Students will conduct comprehensive analysis of data and policies as they relate to sustainable initiatives and disseminate findings into a format that is useful for diverse audiences.

GEOG 6400. Advanced Watershed Hydrology and Management. Units: 4

Quarter Prerequisite: GEOG 103 and Intro to GIS or consent of instructor

This course will explore advanced principles of surface hydrology; relationships between atmospheric, surface and groundwater phenomena; streamflow and flood prediction; water supply and quality. Surface hydrology will be observed using the watershed scale to determine how human-environmental relationships in one reach of the watershed may impact water resources in other reaches of the same watershed. The Clean Water Act and localized water management strategies including stormwater best management practices will also be discussed. Three hours lecture and three hours lab. Materials fee required.

GEOG 6500. Environmental Issues of Land Management. Units: 3

Semester Corequisite: GEOG 650

Study of multiple-use management of non-urban land by local government. Emphasis will be placed on recreation, mining, and the maintenance of open space, biotic habitat, and air and water quality. The California Environmental Quality Act (CEQA) and related issues will also be addressed. Formerly known as GEOG 650.

GEOG 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

GEOG 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

GEOG 6992. Continuous Enrollment for Graduate Candidacy Standing. Units: 2

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

GEOG 6993. Continuous Enrollment for Graduate Candidacy Standing. Units: 3

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

GEOG 6994. Continuous Enrollment for Graduate Candidacy Standing. Units: 4

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

GEOG 6995. Continuous Enrollment for Graduate Candidacy Standing. Units: 5

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

GEOG 6996. Continuous Enrollment for Graduate Candidacy Standing. Units: 6

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

Geology (GEOL)

Courses

GEOL 1000. Introductory Geology. Units: 3

An introduction to the study of the earth. Topics include the structure, composition, distribution and modification of earth materials, and processes that shape the surface of the earth. Satisfies GE B1/5A.

GEOL 1000L. Introductory Geology Laboratory. Unit: 1

Hands-on introduction to the structure, composition, distribution and modification of earth materials, and processes that shape the surface of the earth. Taking GEOL 1000 concurrently is strongly recommended. Materials fee required. Satisfies GE B3/5C.

GEOL 1020. Plate Tectonics: Key to Understanding Earthquakes, Volcanoes and Tsunami. Units: 3

Development of the theory of plate tectonics as a scientific revolution in our understanding of the Earth. Exploration of the technologies that led to new evidence that was unexplainable by traditional, static models of the Earth, and the ideas that led to a new, coherent view of a dynamic Earth in which some ocean basins expand as a result of sea-floor spreading while others shrink as a result of subduction, and continents are carried along as part of massive, slowly moving tectonic plates. Investigation of how the theory of plate tectonics has led to greater success in understanding, predicting and mitigating the damaging effects of earthquakes, volcanoes and tsunami. Satisfies GE B1/5A, G designation.

GEOL 1060. Environmental Geology and Geological Hazards. Units: 3

An introduction to earth science principles, processes, and materials that affect the environment near the surface of the earth where human and biologic activities occur. Topics includes a study of geological factors in land planning such as climate, water use, erosion, faults, ground water origins, water quality, pollution and other geological processes. This course includes an emphasis on hazard mapping and implications of public policies dealing with geologic hazards. Satisfies GE B1/5A, G designation.

GEOL 1060L. Environmental Geology and Geological Hazards Laboratory. Unit: 1

Laboratory component for GEOL 1060: Environmental Geology and Geological Hazards. Taking GEOL 1060 concurrently is strongly recommended. Materials fee required. Satisfies GE B3/5C.

GEOL 1090. Earth: The Blue Planet. Units: 4

Tailored for students intending to teach grades K-8 Science Domain 3: Earth and Space Science. This course provides scientific content and understanding of Earth's dynamic and interacting processes, including the planet's structure composition, water, atmosphere, place in the solar system and universe. Three hours lecture and three hours laboratory. Equivalent to GEOL 3090; credit cannot be earned for both. Materials fee required. Satisfies GE B1/5A and B3/5C.

GEOL 2000. Interpreting Earth Systems History: Stories from an Ancient Planet. Units: 4

Introduction to analytical processes and tools (i.e. chemical, tectonic, environmental, petrological, and biological) for deciphering Earth Systems History, how those systems operate and are delineated, and have evolved/modified our planet from its origins through its present state. Overnight field trips may be required. Formerly offered as GEOL 250; students may not earn credit for both courses. Three hours seminar and three hours laboratory. Materials fee required.

GEOL 2040. Water in the West. Units: 3

Within the framework of Western North America, water use has been a historically contentious issue that still persists today. The course will provide an overview of the fundamentals of hydrology, and through quantitative reasoning and integrative learning examine the impact that the use of water resources have upon the physical and human environment. The historical, present, and future significance of these impacts will be examined through the lens of the global community, and social/economic justice. The effects of climate change and policy on water availability will be examined. Satisfies GE B1/5A, G designation.

GEOL 2101. Special Projects in Geology. Unit: 1

Individual investigation, research, study or survey of selected problems. Consent of instructor required. Materials fee required. Formerly offered as GEOL 295A; students may repeat a total of two times.

GEOL 2102. Special Projects in Geology. Units: 2

Quarter Prerequisite: Consent of instructor

Individual investigation, research, study or survey of selected problems. Formerly offered as GEOL 295B; students may repeat a total of two times. Consent of instructor required. Materials fee required.

GEOL 2500. Geology of California. Units: 3

Semester Prerequisite: Any 1000-level GEOL course with lab, or GEOG 1030, or consent of instructor. Quarter Prerequisite: Geol 101

Interpretation of the geological features and evolution of California. Overnight field trips may be required. Formerly GEOL 312; students may not earn credit for both courses.

GEOL 3020. Natural Disasters. Units: 3

Semester Prerequisite: Junior or senior standing

A consideration of natural processes such as volcanic eruptions, earthquakes, global sea level rise, slope failures, floods, wildland fires, meteoric impacts and severe forms of weather, that have had or may have disastrous consequences on both humans and the environment. Satisfies GE B5/UD-5, G designation.

GEOL 3030. History of Life on Earth. Units: 3

Semester Prerequisite: Junior or senior standing

History of life on earth and the processes that govern its genesis, evolution, extinction, ecology, and preservation. Offered as BIOL 3030 and GEOL 3030. Satisfies GE B5/UD-5. Students may only receive credit for one of these courses.

GEOL 3040. Energy and the Environment. Units: 3

Semester Prerequisite: Junior or senior standing

Within the framework of the environment, and especially climate change, this course will examine our past and present energy portfolio (biomass, coal, oil, natural gas, nuclear), our present and future energy portfolio options (solar, wind, tides, hydro, hydrogen, etc.), and the transition technologies (energy conservation, hybrids) that will bridge this gap. The course will provide an overview of the geological energy resources, the technology of renewable energy, and through quantitative reasoning and integrative learning examine the impact that each of these energy choices have upon the environment. The significance of these impacts upon the global commons (air-water-soil-climate) will be examined through the lens of the global community, and social/economic justice. Satisfies GE B5/UD-5, G designation.

GEOL 3100. Introduction to Geologic Mapping. Units: 3

Semester Prerequisite: Any 1000-level Geology course with lab, or GEOG 1030 with lab. Quarter Prerequisite: GEOL 101 or GEOG 103

Field identification of igneous, sedimentary, and metamorphic rock units, making geologic field notes, making rock descriptions, use of Brunton compass, topographic map reading skills, making and reading geologic maps, geologic cross section construction and interpretation, and preparing geologic reports. Overnight field trips may be required. Formerly offered as GEOL 301; students cannot earn credit for both. One hour lecture and six hours laboratory. Materials fee required.

GEOL 3111. Service Learning in the Earth Sciences. Unit: 1

Supervised activities in geology or geological education providing service to campus or community constituents. Minimum of 45 hours required. Consent of instructor required. Formerly offered as GEOL 307A. May be repeated for credit. Graded credit/no credit.

GEOL 3112. Service Learning in the Earth Sciences. Units: 2

Supervised activities in geology or geological education providing service to campus or community constituents. Minimum of 90 hours required. Consent of instructor required. Formerly offered as GEOL 307B. May be repeated for credit. Graded credit/no credit.

GEOL 3200. Mineralogy. Units: 5

Semester Prerequisite: GEOL 1000, GEOL 1000L, and CHEM 2050 or CHEM 2100, or permission of instructor. Quarter Corequisite: CHEM 205 or CHEM 215. Quarter Prerequisite: GEOL 101

Semester Corequisite: CHEM 2050 or CHEM 2100

Introduction to crystallography, crystal chemistry, mineral classification, mineral genesis, physical and chemical properties of minerals, and identification of important ore and rock-forming minerals using megascopic observation, optical microscopy, x-ray diffraction, and scanning electron microscopy. Field trips may be required. Formerly offered as GEOL 320 and GEOL 321; students earn credit either for those two or for GEOL 3200. Three hours lecture and six hours laboratory. Materials fee required.

GEOL 3220. Introduction to Geochemistry. Units: 4

Semester Prerequisite: GEOL 3200, or consent of instructor. Quarter Prerequisite: GEOL 320 with a grade of "C" or better
Natural distribution, migration, and reactions of chemical elements within the earth and through time. Students will learn essentials for environmental chemistry, water quality, ore deposits, and chemical weathering. Includes stable and radiogenic isotope tracer and age dating methods, basic thermodynamics, and application of chemical analysis techniques. Recommended as an elective for students of chemistry, environmental studies, archaeology/anthropology, and life sciences. Three hours lecture and three hours laboratory. Weekend field trip(s) may be required. Formerly offered as GEOL 322, students may not earn credit for both courses. Materials fee required.

GEOL 3240. Igneous and Metamorphic Petrology. Units: 4

Semester Prerequisite: GEOL 3200 with grade C or better
Description and genesis of igneous and metamorphic rocks, their mineralogic and chemical composition, internal structure, and mode of occurrence. Overnight field trips may be required. Three hours lecture and three hours laboratory. Materials fee required.

GEOL 3300. Sedimentary Geology: Principles and Applications. Units: 4

Semester Prerequisite: Any 1000-level GEOL course, or GEOG 1030, BIOL 1000, or consent of instructor
General processes of sedimentary geology including provenance, sediment production, modification, and transportation; principles of fluid dynamics of water, air, and ice; fundamentals of deposition and diagenesis; description and interpretation of stratiform sediments and rocks, including facies relationships; principles of stratigraphic change; correlation methodologies; sequence stratigraphy; the development of stratigraphic thought; biostratigraphic principles and applications; and geophysical/geochemical stratigraphic methodologies and analysis. Overnight field trips may be required. Includes portions of GEOL 330 and GEOL 340; students may not earn credit for both sequences. Three hours discussion and three hours laboratory. Materials fee required.

GEOL 3400. Sedimentary Geology: Environmental Systems Analysis. Units: 4

Semester Prerequisite: Any 1000-level or higher GEOL course, or GEOG 1030 or BIOL 1000, or consent of instructor. Quarter Prerequisite: GEOL 101, or GEOG 103, or BIOL100, or consent of instructor
Description, analysis, and interpretation of modern and ancient sedimentary environmental systems, including terrestrial/continental systems (e.g. fluvial, lacustrine, deltaic, marsh/wetlands, alluvial, pedogenic, glacial, aeolian systems); subaqueous sedimentary systems (e.g. beaches, tidal, estuarine, deltaic, lagoonal, shallow shelf, biogenic (i.e. carbonate), slope, and deep marine). Laboratory work includes analysis of typical suites/specimens, maps, aerial and satellite photos, that characterize those systems. Overnight field trips may be required. Includes portions of GEOL 330 and GEOL 340; students may not earn credit for both sequences. Three hours lecture and three hours laboratory. Materials fee required.

GEOL 3500. Introductory Paleontology. Units: 4

Semester Prerequisite: Any 1000-level or higher GEOL course, or GEOG 1030, or BIOL 1000, or CHEM 2050, or consent of instructor. Quarter Prerequisite: an introductory course in either geology, physical geography, chemistry, or biology
Introduction to basic paleobiological concepts and the systematic study of important fossil groups. Course concepts include organization and nature of the biosphere, fossilization, taxonomy and systematics, paleoecology, and evolution as exemplified by commonly represented fossil groups in the rock record. Laboratory work includes collection, preparation, analysis, description, and interpretation of both modern specimens as well as typical and unusual fossil materials. Formerly offered as GEOL 350, may not receive credit for both courses. Overnight field trips may be required. Three hours seminar and three hours laboratory. Materials fee required.

GEOL 3600. Structural Geology. Units: 4

Semester Prerequisite: Any 1000-level GEOL course with lab, and PHYS 1000, PHYS 2000 or PHYS 2500. Quarter Prerequisite: GEOL 101 and PHYS 121 or PHYS 221
Mechanics and characteristics of rock deformation and analytical techniques for the solution of structural relationships. Three hours lecture and three hours laboratory. Overnight field trips may be required. Formerly offered as GEOL 360; students cannot earn credit for both. Materials fee required.

GEOL 3700. Groundwater Hydrology. Units: 3

Semester Prerequisite: Geol 1000 and 1000L, or Geol 1060 and 1060L or Geol 1020 plus 1000L or 1060L. Quarter Prerequisite: GEOL 101
Occurrence, distribution, and movement of groundwater; properties of aquifers; principles of groundwater flow; effects of well extraction; regional groundwater flow; water quality and contamination. Formerly offered as GEOL 375, students may not earn credit for both courses.

GEOL 3750. Field Methods in Hydrology. Units: 3

Semester Prerequisite: GEOL 3700, or consent of instructor. Quarter Prerequisite: GEOL 375 with a grade of "C" or better
Hydrology data collection in the field, with emphasis on instrumentation and mapping techniques. Water well siting and drilling techniques. Interpretation of data for evaluation of water movement. One hour lecture and six hours laboratory. Weekend field trips are required. Formerly offered as GEOL 376, students may not earn credit for both courses. Materials fee required.

GEOL 3800. Directed Readings in Geology. Units: 2

Quarter Prerequisite: consent of instructor
Directed readings of primary geologic literature on selected topics. Department consent required. Formerly offered as GEOL 520; students may not earn credit for both courses.

GEOL 3901. Advanced Field Geology. Unit: 1

Techniques of field geology as applied to selected disciplines within the broad field of geosciences. Some courses may involve moderate to strenuous physical activity. Depending on course content, additional fitness certification may be needed prior to obtaining the consent of instructor required to register. GEOL 3901-3906 may be repeated for credit up to a total of 6 units. Department consent required. Materials fee required.

GEOL 3902. Advanced Field Geology. Units: 2

Quarter Prerequisite: GEOL 301 with a grade of "C" or better and consent of instructor

Techniques of field geology as applied to selected disciplines within the broad field of geosciences. Some courses may involve moderate to strenuous physical activity. Depending on course content, additional fitness certification may be needed prior to obtaining the consent of the instructor required to register. May be taken three times for six units; Students may only earn six units across GEOL 3901-3906. Department consent required. Formerly offered as GEOL 391B. Materials fee required.

GEOL 3902D. Advanced Field Geology - Dinosaur Excavation. Units: 2

Semester Prerequisite: GEOL 3100

Techniques of field geology and vertebrate paleontology as applied to the study of dinosaur fossils in eastern Wyoming. Introduction to dinosaur fossil excavation, preservation, and prospecting; techniques in field data collection; and interpretation of paleoecology. This course involves moderate to strenuous physical activity. Qualifies for credit in the GEOL 3901-3906 series. Department consent required. May be taken three times for six units. Materials fee required, which includes food, camping and ranch fees, and transportation on-site during the course.

GEOL 3903. Advanced Field Geology. Units: 3

Quarter Prerequisite: GEOL 301 with a grade of "C" or better and consent of instructor

Techniques of field geology as applied to selected disciplines within the broad field of geosciences. Some courses may involve moderate to strenuous physical activity. Depending on course content, additional fitness certification may be needed prior to obtaining the consent of the instructor required to register. May be taken two times for six units; Students may only earn six units across GEOL 3901-3906. Department consent required. Formerly offered as GEOL 391C. Materials fee required.

GEOL 3904. Advanced Field Geology. Units: 4

Quarter Prerequisite: GEOL 301 with a grade of "C" or better and consent of instructor

Techniques of field geology as applied to selected disciplines within the broad field of geosciences. Some courses may involve moderate to strenuous physical activity. Depending on course content, additional fitness certification may be needed prior to obtaining the consent of the instructor required to register. May be taken two times for eight units; Students may only earn six units across GEOL 3901-3906. Department consent required. Formerly offered as GEOL 391D. Materials fee required.

GEOL 3906. Advanced Field Geology. Units: 6

Quarter Prerequisite: GEOL 301 with a grade of "C" or better and consent of instructor

Techniques of field geology as applied to selected disciplines within the broad field of geosciences. Some courses may involve moderate to strenuous physical activity. Depending on course content, additional fitness certification may be needed prior to obtaining the consent of instructor required to register. Students may only earn six units across GEOL 3901-3906. Department consent required. Formerly offered as GEOL 391E. Materials fee required.

GEOL 3951. Directed Studies. Unit: 1

Quarter Prerequisite: consent of the instructor

Individual laboratory, field or library study conducted under the direction of a faculty member. May be repeated for credit. Instructor consent required. Formerly offered as GEOL 395A. Materials fee required.

GEOL 3952. Directed Studies. Units: 2

Quarter Prerequisite: consent of the instructor

Individual laboratory, field or library study conducted under the direction of a faculty member. May be repeated for credit. Instructor consent required. Formerly offered as GEOL 395B. Materials fee required.

GEOL 3953. Directed Studies. Units: 3

Quarter Prerequisite: consent of the instructor

Individual laboratory, field or library study conducted under the direction of a faculty member. May be repeated for credit. Instructor consent required. Formerly known as GEOL 395C. Materials fee required.

GEOL 3990. Geological Research Design. Units: 3

Exploration of scientific ways of thinking and how scientific knowledge is created and communicated within the field of geology. Appreciation of the geologic literature as a professional conversation that expands our understanding of geologic processes and features. Development of the reading, thinking, listening, speaking, writing and graphical communication skills that are necessary to join that conversation as a student-scholar, culminating in a written and oral proposal for a research project for GEOL 4000. Revision and collaboration are key components of the course. May require attendance at one or more professional geologic talks or seminars. Two hours seminar and one hour supervision per week. For geology majors and minors only. Consent of Instructor and Department Chair required. Graded A through C-/No Credit. Satisfies WI designation. Students may not earn credit for both courses.

GEOL 4000. Undergraduate Geological Research. Units: 2

Semester Prerequisite: GEOL 3990 with a grade of "C-" or better. Quarter Prerequisite: GEOL 398 with a grade of "C" or better

Laboratory and/or field research in geological sciences under the direction of a faculty advisor. Results will be presented as a research paper. Grade is consensus grade of geology faculty. Department consent required. Formerly offered as GEOL 399; students may not earn credit for both courses.

GEOL 4100. Engineering Geology. Units: 4

Semester Prerequisite: GEOL 3100 with a grade of "C" or better or consent of the Instructor

A survey of issues and techniques pertinent to geology as it applies to engineering of structures and mitigation of natural hazards. Soil and rock mechanics; mass wasting processes; water-related issues; land subsidence; seismic hazards. Field trips are required. Two hours lecture and six hours laboratory, some of which will be conducted in the field. Formerly offered as GEOL 430; students may not earn credit for both. Materials fee required.

GEOL 4200. Topics in Applied Geology. Units: 3

Semester Prerequisite: GEOL 3600 or consent of instructor. Quarter Prerequisite: GEOL 360 or consent of instructor

A selected topic of applied geology such as engineering geology, groundwater, environmental geology, resource management, well-log analysis, applied geophysics, and geological hazards. Recommended as an elective for students of environmental studies, archaeology/ anthropology, and life sciences. Formerly offered as GEOL 460. May be repeated for credit as topics change.

GEOL 4200L. Laboratory for Topics in Applied Geology. Unit: 1

Semester Corequisite: Geol 4200
Laboratory work to accompany some topics offered in GEOL 4200. Overnight field trips may be required. May be repeated for credit as topics change. Department consent required. Materials fee required.

GEOL 4800. Senior Honors Research. Units: 2

Semester Prerequisite: GEOL 4000 with a grade of "C" or better. Quarter Prerequisite: GEOL 399 with a grade of "C" or better
Original research in the geological sciences. Work will be conducted in consultation with a faculty advisor, and will culminate in a written paper. Students are encouraged to present results in a conference setting as well. Consent of Instructor required. Formerly offered as GEOL 597; students may not earn credit for both courses.

GEOL 4900. Senior Seminar. Units: 2

Semester Prerequisite: GEOL 4000 with a grade of "C-" or better. Quarter Prerequisite: GEOL 399 with a grade of "C" or better
Assessment of student learning through a written and practical exam, in-class writing assignments, and oral and poster presentations of a research project completed as part of GEOL 4000. Also includes resume writing and preparation for the Geologist in Training examination (a step toward licensure). This course should be taken in the last spring semester prior to graduation. One hour seminar and three hours supervision per week. Formerly offered as GEOL 590. Students may not earn credit for both courses.

GEOL 5000. Advanced Topics in Geology. Units: 3

An advanced geologic topic, such as geochronology, geophysics, carbonate petrology, seismic stratigraphy, biostratigraphy, advanced igneous and metamorphic petrology, volcanic processes, geochemistry, paleoecology, Quaternary geology, geostatistics, micropaleontology, vertebrate paleontology, paleobotany, marine geology, orogenic systems, stratigraphic techniques, and rock mechanics. Overnight field trips may be required. May be repeated for credit as topics change.

GEOL 5000L. Laboratory for Advanced Topics in Geology. Unit: 1

Semester Prerequisite: Consent of instructor. Quarter Prerequisite: Consent of instructor
Semester Corequisite: GEOL 5000
Laboratory work to accompany some topics offered in GEOL 5000. Overnight field trips may be required. May be repeated for credit as topics change. Formerly offered as GEOL 545A. Materials fee required.

GEOL 5200. Tectonics. Units: 3

Quarter Prerequisite: GEOL 325, 330 and 360
Interpretation of the geological evidence for plate tectonics; the mechanisms that control it; the structures it produces; its control on igneous, metamorphic, sedimentologic, and biological processes; and plate interactions. Formerly offered as GEOL 370, students cannot earn credit for both courses.

GEOL 5220. Neotectonics and Seismic Hazard Analysis. Units: 4

Semester Prerequisite: GEOL 1000 and GEOL 1000L, or GEOG 1030 and GEOG 1030L required, GEOL 3100 and GEOL 3600 strongly recommended. Quarter Prerequisite: GEOL 101 or GEOG 103
State-of-the-art methods for studying active faults. Topics include basic seismology, significant historic earthquakes, identifying active faults, estimating fault slip rates by geologic and geodetic methods, types of evidence for prehistoric earthquakes, models for earthquake recurrence, and evaluating the potential for and likely effects of future earthquakes. Three hours lecture and three hours laboratory. Formerly offered as GEOL 551. Both courses may not be taken for credit. Materials fee required.

GEOL 5240. Volcanology and Volcanic Hazard Assessment. Units: 4

Semester Prerequisite: GEOL 3240 with a grade of C or better. Quarter Prerequisite: GEOL 325 with a grade of C or better
Concepts in modern volcanology and assessment of volcanic hazards. Topics include magma properties, eruptive styles, lava flows, pyroclastic and volcaniclastic deposits, volcanoes and climate, volcanic hazards and their assessment and mitigation, case studies of classic volcanic eruptions. Three hours lecture and three hours laboratory. Weekend field trip(s) will be required. Formerly offered as GEOL 552, students may not receive credit for both courses. Materials fee required.

GEOL 5260. Advanced Structural Geology. Units: 4

Semester Prerequisite: GEOL 3240, 3300, and 3600 with a grade of C or better. Quarter Prerequisite: GEOL 325, 330 and 360 with a grade of C or better
Advanced topics in theory and analysis of stress and strain; examination of deformation mechanisms; geometry, kinematics, and mechanisms of orogenic belts. Recommended: GEOL 5200. Three hours lecture and three hours laboratory. Overnight field trips may be required. Formerly offered as GEOL 553, students may not receive credit for both courses. Materials fee required.

GEOL 5280. Digital Mapping and GIS for Scientists. Units: 3

Semester Prerequisite: GEOL 3100 or consent of instructor. Quarter Prerequisite: GEOG 202
Emphasis on real-time field-data collection in direct digital form, and manipulation of these data using GIS. Scientific application to geologic and/or environmental problems will be stressed. Recommended: GEOG 2050. One hour lecture and six hours laboratory. Previously offered as GEOL 591; students may not earn credit for both courses. Materials fee required.

GEOL 5300. Microscopy. Units: 3

Semester Prerequisite: senior standing or consent of instructor. Quarter Prerequisite: senior standing and consent of instructor
Theory and techniques of modern microscopy. Lectures on theory of optics and imaging for several types of microscopes (Light microscope, fluorescence microscope, confocal microscope, scanning probe microscope, and electron microscope). Laboratory includes hands-on training in the technical aspects of specimen preparation and microscope use. Two hours lecture and three hours laboratory. Formerly offered as BIOL/GEOL 530, students may not receive credit for both courses. Offered as GEOL 5300 and BIOL 5300. Students may not receive credit for both. Materials fee required.

GEOL 5400. Environmental Hydrology. Units: 3

Overview of groundwater and surface water, including Federal and State environmental regulation, groundwater origins and behavior, wells, water quality, waste treatment. Emphasis is given to applications and case studies. Weekend field trip(s) may be required. Formerly offered as GEOL 510, students may not receive credit for both courses.

GEOL 5420. Geochemical Thermodynamics. Units: 3

Semester Prerequisite: CHEM 2200 and MATH 2220. Quarter Prerequisite: CHEM #216 and MATH #212

Application of equilibrium thermodynamics to understand geological, geochemical, and other natural systems. Mathematics of thermodynamics and equations of state, use of thermodynamic datasets and extraction of data from experiments, interpretation of geochemical phase equilibria, introduction to geochemical modeling. Formerly offered as GEOL 554, students may not receive credit for both courses. Geology majors are recommended to take GEOL #320 and GEOL #322 before taking this course.

GEOL 5430. Isotope Geochemistry. Units: 3

Semester Prerequisite: GEOL 3220 and GEOL 3240 or permission of instructor

Introduction to stable and radiogenic isotopes with applications to a variety of geochemical, geological, and environmental research problems. Fundamental topics include nucleosynthesis and nuclear chemistry, radioactive decay, isotopic equilibria, and mass spectrometry. Isotopes will be applied to understanding natural processes in hydrology, water-rock interaction, environmental studies, paleoclimate, petrology, anthropology, biogeochemistry, and radiometric dating.

GEOL 5440. Environmental Geochemistry. Units: 4

Semester Prerequisite: CHEM 2050, or CHEM 2100, or GEOL 3220, or consent of instructor, CHEM 2200 suggested. Quarter Prerequisite: GEOL 610

Contemporary problems in environmental geochemistry, such as fate and transport of inorganic and organic pollutants in the terrestrial environment covering both equilibrium and kinetic descriptions of the processes. Three hours lecture and three hours laboratory. Formerly offered as GEOL 630, students may not receive credit for both courses. Materials fee required.

GEOL 5460. Low-temperature Geochemistry. Units: 3

Low-temperature geochemistry including sedimentary systems, weathering, and aqueous geochemistry. Includes discussion of thermodynamics of aqueous reactions, elemental speciation, activity diagrams, the carbonate system, water-rock reactions and stable isotopes. Formerly offered as GEOL 635, students may not receive credit for both courses.

GEOL 5600. Earth Resources. Units: 4

Semester Prerequisite: GEOL 3200 with a grade of "C" or better, or consent of instructor. Quarter Prerequisite: GEOL 322 with a grade of "C" or better

An overview of the geology, distribution, and occurrence of many types of ore deposits, and the methods and laws governing their extraction. Topics include metallic resources, industrial minerals, building materials, and energy resources. Three hours lecture and three hours laboratory. Weekend field trip(s) may be required. Formerly offered as GEOL 550, students may not receive credit for both courses. Materials fee required.

GEOL 5620. Site Investigation, Siting, and Case Histories in Engineering Geology. Units: 4

Quarter Prerequisite: GEOL 301, GEOL 360, GEOL 370

Discussion and practice of methods and strategies to investigate sites for the purpose of engineered or other human designed improvement. Use of aerial photography, mapping, reconnaissance site visits, geophysics, and exploration borings to obtain data at sites; discussion of guidelines and methods to describe rock and soil borings. Discussion of use of geologic site conditions to develop the scope and strategy of site investigation. Discussion of siting of critical facilities. Well-known successes and failures will be explored by focusing on the geologic details at those sites, and how workers of the day dealt with situations versus how these might be investigated and mitigated with modern techniques. Three hours seminar and three hours lab. Field trips required. Formerly offered as GEOL 555 and GEOL 556, students may not earn credit for both the quarter versions and this version. Materials fee required.

GEOL 5751. Internship in Geology. Unit: 1

Quarter Prerequisite: consent of instructor and department chair

Work experience off and on campus in geologically related work. Supervised by a member of Geological Sciences faculty. A maximum of 3 units may be applied towards the degree. Department consent required. Formerly offered as GEOL 575A or 575B. Students may not receive credit for both courses. Graded credit/no credit.

GEOL 5752. Internship in Geology. Units: 2

Quarter Prerequisite: consent of instructor and department chair

Work experience off and on campus in geologically related work. Supervised by a member of Geological Sciences faculty. A maximum of 3 units may be applied towards the degree. Department consent required. Formerly offered as GEOL 575B or 575C. Students may not receive credit for both courses. Graded credit/no credit.

GEOL 5753. Internship in Geology. Units: 3

Quarter Prerequisite: consent of instructor and department chair

Work experience off and on campus in geologically related work. Supervised by a member of Geological Sciences faculty. A maximum of 3 units may be applied towards the degree. Department consent required. Formerly offered as GEOL 575C or 575D. Students may not receive credit for both courses Graded credit/no credit.

GEOL 5951. Independent Study. Unit: 1

Semester Prerequisite: consent of instructor. Quarter Prerequisite: consent of instructor

Laboratory, field or library research conducted under the direction of a faculty member. A total of three units may be applied towards obtaining a bachelors degree and a total of three units may be applied towards obtaining a masters degree. Formerly offered as GEOL 595A or 595B.

GEOL 5952. Independent Study. Units: 2

Quarter Prerequisite: consent of instructor

Laboratory, field or library research conducted under the direction of a faculty member. A total of three units may be applied towards obtaining a bachelors degree and a total of three units may be applied towards obtaining a masters degree. Formerly offered as GEOL 595B or 595C. Departmental consent required.

GEOL 5953. Independent Study. Units: 3

Quarter Prerequisite: consent of instructor

Laboratory, field or library research conducted under the direction of a faculty member. A total of three units may be applied towards obtaining a bachelors degree and a total of three units may be applied towards obtaining a masters degree. Formerly offered as GEOL 595C. Departmental consent required.

GEOL 6000. Advanced Environmental Chemistry and Geosciences. Units: 4

Semester Prerequisite: classified standing in either the Master of Science in Geology or Master of Science in Environmental Sciences program, or consent of instructor

Application of earth science principles to the properties of the natural environment and the effects of human and biological activities thereon. Topics include geohazards, erosion, geochemistry, sources and treatment of water, climate change, and the chemistry of environmental pollutants in air, water, and soil. Labs will feature hands-on studies of common methods used in environmental and geological analyses. Materials fee required. Formerly CHEM 610 and GEOL 610; students may not receive credit for both the quarter versions and this version.

GEOL 6100. Graduate Geological Mapping. Units: 3

Quarter Prerequisite: GEOL 301, GEOL 325, GEOL 330, GEOL 340, and GEOL 360 or equivalents, classified standing, and consent of instructor

Application of geologic techniques and principles to selected field problems. Includes geologic mapping, data collection, analysis, and presentation, and report writing. Nine hours laboratory. Overnight field work may be required. Formerly offered as GEOL 621, students may not earn credit for both courses. Materials fee required.

GEOL 6752. Advanced Internship. Units: 2

Semester Prerequisite: CHEM 5753, or GEOL 5753. Quarter Prerequisite: CHEM 575 or GEOL 575 and consent of advisor

Supervised work or study in private or public organizations. Department consent required. Graded Credit/No Credit. Formerly offered as GEOL 697.

GEOL 6900. Graduate Seminar. Units: 2

Current and past student project investigations in the M.S. Environmental Science and Geology programs, including presentation of project implications for the general public and professional non-scientific constituents such as business, law, policy, and public health. Formerly offered as CHEM/GEOL 690, students may not receive credit for both courses. Two hours seminar.

GEOL 6940. Graduate Research Methods and Design. Units: 3

Quarter Prerequisite: Classified standing in the master of science program in geology or environmental sciences, and consent of instructor

Critical literature review and preparation of a master's thesis or project research proposal following program guidelines. Supervised by the student's thesis/project adviser. Graded credit/no credit upon approval of the student's thesis/project committee.

GEOL 6950. Directed Graduate Research in Geology. Units: 3

Semester Prerequisite: classified standing in masters program. Quarter Prerequisite: classified standing in masters program and consent of advisor

Original individual research in geology to be conducted under the supervision of the student's thesis adviser. Formerly offered as GEOL 695. Students may take the course up to a total of three times, but only three units apply to the degree. Department consent required. Materials fee required.

GEOL 6960. Graduate Project. Units: 3

Semester Prerequisite: classified standing and consent of instructor. Quarter Prerequisite: classified standing and consent of instructor

Original individual research in geology, to be conducted under the guidance of the student's graduate advisor, and if desired, in collaboration with other members of the student's master's committee. Formerly offered as GEOL 696, students may not receive credit for both courses. Graded credit/no credit. Materials fee required.

GEOL 6970. Graduate Thesis. Units: 3

Semester Prerequisite: GEOL 6950. Quarter Prerequisite: CHEM 695 or GEOL 695

Independent graduate research conducted under guidance of the thesis advisor culminating in a written thesis and oral defense. Formerly offered as GEOL 699, students may not receive credit for both courses.

GEOL 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

GEOL 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

GEOL 6992. Continuous Enrollment for Graduate Candidacy Standing. Units: 2

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

GEOL 6993. Continuous Enrollment for Graduate Candidacy Standing. Units: 3

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

GEOL 6994. Continuous Enrollment for Graduate Candidacy Standing. Units: 4

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

GEOL 6995. Continuous Enrollment for Graduate Candidacy Standing. Units: 5

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

GEOL 6996. Continuous Enrollment for Graduate Candidacy Standing. Units: 6

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

Gender and Sexuality Studies (GSS)

Courses

GSS 1000. Introduction to Women's Studies. Units: 3

A multidisciplinary exploration of women's studies scholarship covering women's experiences, histories, and achievements in a variety of contexts and fields. The course critically examines gender as a social construct and the differential experiences of women related to intersectional identities, power, equity, and human rights both domestically and globally. Satisfies GE D3/4, DI, G designations.

GSS 1010. Introduction to Masculinity Studies. Units: 3

Multidisciplinary exploration of how masculinity is constructed, understood, represented, and behaviorally expressed across multiple contexts and through its intersections with sex, sexuality, culture, nationality/geography, social class, physicality, race, ethnicity, and age. Satisfies GE D3/4, DI, G designations.

GSS 1020. Introduction to Transgender Studies. Units: 3

Multidisciplinary exploration of the field of transgender studies. The course will explore how trans identities intersect with a diversity of other identities and how trans experiences vary across cultural, global, and historical contexts. Satisfies DI designation.

GSS 1030. Introduction to Lesbian, Gay, Bisexual, Transgender, and Queer Studies. Units: 3

Multidisciplinary exploration of the field of lesbian, gay, bisexual, transgender, and queer studies. Explores historical events and contemporary issues related to LGBTQ populations, social justice, and the intersections of sexual and gender identities with other identities such as race, ethnicity, sex, social class, religion, ability, and nationality/geography. Satisfies GE D3/4, DI, G designations.

GSS 3901. Special Topics in Gender and Sexuality Studies. Units: 3

Examination of selected topics of current interest in gender and sexuality studies. May be repeated for credit as topics change. Formerly offered as GSS 390.

GSS 4200. Feminist Theory. Units: 3

An interdisciplinary survey of key feminist theoretical texts, intellectual traditions, and research while exploring the implications and applications of feminist theory across multiple contexts domestically and globally. This course seeks to provide students with an accurate understanding of feminism, its usefulness in understanding social problems, and aims to empower students to work toward sex and gender equity. Satisfies GE D4/UD-4, DI, G designations.

GSS 4250. Women as Agents of Social Change. Units: 3

Historical and contemporary analysis of women as agents of social change, including responses to sex and gender-based discrimination, consideration of feminist theories of social change and debates over how to create more equitable and inclusive societies. Formerly GSS 425.

GSS 4500. Queer Theory. Units: 3

An interdisciplinary exploration of queer theory through examining vital theoretical texts, intellectual traditions, and research while exploring the implications and applications of queer theory across multiple contexts domestically and globally. The course will provide students with a conceptual framework to critically analyze how gender and sexuality relate to social justice within changing historical and cultural contexts. Satisfies GE D4/UD-4, DI, G designations.

GSS 4550. Sexualities and Society. Units: 3

This course provides an introduction to the sociology of sexualities. We often think of sex and sexuality as deeply personal and private, but in this class, we'll also learn how sexualities are profoundly social - that is, how sexualities are situated in larger social contexts. In this class, we will critically unpack how sex and sexuality are socially constructed, experienced, regulated, and contested in society.

GSS 5751. Internship in Gender and Sexuality Programs and Services. Unit: 1

Quarter Prerequisite: consent of the Gender and Sexuality Studies Program Committee coordinator

Supervised work and study in private or public organizations involving gender and sexuality issues. May be repeated twice for credit, a total of six units may apply toward graduation. Graded credit/no credit. Formerly GSS 575D.

GSS 5752. Internship in Gender and Sexuality Programs and Services. Units: 2

Quarter Prerequisite: consent of the Gender and Sexuality Studies Program Committee coordinator

Supervised work and study in private or public organizations involving gender and sexuality issues. May be repeated once for credit, a total of four units may apply toward graduation. Graded credit/no credit. Formerly GSS 575B.

GSS 5753. Internship in Gender and Sexuality Programs and Services. Units: 3

Quarter Prerequisite: consent of the Gender and Sexuality Studies Program Committee coordinator

Supervised work and study in private or public organizations involving gender and sexuality issues. May be repeated once for credit, a total of six units may apply toward graduation. Graded credit/no credit. Formerly GSS 575C.

GSS 5951. Independent Study. Unit: 1

Quarter Prerequisite: junior standing, consent of instructor and approval by the Gender and Sexuality Program coordinator

Investigation of special topics in gender and sexuality studies that are not covered by the curricular offerings in gender and sexuality studies or the cross-listed offerings from other departments. No more than six units of independent study may be applied toward the minor or certificate in gender and sexuality studies.

GSS 5952. Independent Study. Units: 2

Quarter Prerequisite: junior standing, consent of instructor and approval by the Gender and Sexuality Program Committee coordinator

Investigation of special topics in gender and sexuality studies that are not covered by the curricular offerings in gender and sexuality studies or the cross-listed offerings from other departments. No more than six units of independent study may be applied toward the minor or certificate in gender and sexuality studies.

GSS 5953. Independent Study. Units: 3

Quarter Prerequisite: junior standing, consent of instructor and approval by the Gender and Sexuality Program Committee coordinator

Investigation of special topics in gender and sexuality studies that are not covered by the curricular offerings in gender and sexuality studies or the cross-listed offerings from other departments. No more than six units of independent study may be applied toward the minor or certificate in gender and sexuality studies.

History (HIST)

Courses

HIST 1400. World History to c. 1500. Units: 3

Thematic introduction to world history from prehistoric times to c1500. Examines the development of and interactions between peoples, states, civilizations, and empires in Africa, Asia, Europe, Oceania, and the Americas. Focuses on patterns of economic and cultural development, religious ideas, the rise and fall of empires, and global interconnections. Satisfies GE D3/4, DI, G designations.

HIST 1440. World History from c.1500. Units: 3

Thematic introduction to world history from c. 1500 to the present. Examines the changing balance of power between regions of the world and the contributions of people from Africa, Asia, Europe, Oceania, and the Americas to the development of the modern world. Focuses on the rise of capitalism, nation states, globalization, and revolutionary movements and their impact on our world today. Satisfies GE D3/4, DI, G designations.

HIST 1460. History of the United States: Pre-Colonization to Present. Units: 3

Historical development of the fundamental values of the nation's culture and the influences of these in selected areas of American life from pre-colonization to present. This course meets the state code requirements in the U.S. Constitution and in U.S. history. Satisfies GE D1/4, DI designation.

HIST 1460H. Honors History of the United States: Pre-Colonization to Present. Units: 3

Historical development of the fundamental values of the nation's culture and the influences of these in selected areas of American life from pre-colonization to present. life. This course meets the state code requirements in the U.S. Constitution and in U.S. history. Satisfies GE D1/4, DI designation.

HIST 2000. United States History to 1877. Units: 3

Survey of the history of the United States from the colonial beginnings to 1877. This course meets the state code requirement in U.S. history. It also meets the state code requirement in the U.S. Constitution when taken in conjunction with HIST 2010. Satisfies GE D1/4, DI designation.

HIST 2010. United States History, 1877 to the Present. Units: 3

Survey of the history of the United States from 1877 to the present. This course meets the state code requirement in U.S. history. It also meets the state code requirement in the U.S. Constitution when taken in conjunction with HIST 2000. Satisfies GE D1/4, DI designation.

HIST 2700. California History. Units: 3

Cultural and political history of California from pre-Columbian times to the present. Topics will include Native cultures, Spanish colonization, the mission system, Mexican rule, the Mexican war, the gold rush, the state constitution, Progressive-era political reforms, and immigration. Meets the subject matter requirements for the Liberal Studies degree, in preparation for teaching grades K-8. This course meets the state code requirement in state and local government. Formerly HIST 270.

HIST 3000. History of Education in the United States. Units: 3

Exploration of formal and informal education in the United States from colonial period to the late twentieth century. Emphasis on social, cultural, political, and economic influences. This course will investigate the historical development of education systems in the United States from the 1600s to the present. Major themes will include examinations of informal education in colonial history and during the early republic, the foundations of structured public education, the role of education in developing notions of citizenship, and the rise of national standardization in K-12 schooling. Students will examine social, cultural, economic, and political priority shifts that influenced education policy in the nineteenth and twentieth centuries. Moreover, students will examine school segregation as well as the differences in formal and informal education practices among diverse ethnic groups in the U.S. and Native American tribal homelands.

HIST 3012. Historical Archaeology. Units: 3

Use of archaeological methods to study historic peoples. Historical and archaeological methods and their results. Focus will be primarily on North America from European entry to modern times. Formerly known as ANTH 312/HIST 312. Offered as ANTH 3012 and HIST 3012, students may not receive credit for both.

HIST 3018. Introduction to Cultural Resource Management. Units: 3

General overview of the field of Cultural Resource Management in Museum Studies, Archaeology, and Public History. Previously HIST 318.

HIST 3020. The 20th Century World. Units: 3

Major events and significant individuals of the 20th century are explored and analyzed.

HIST 3030. Latin I for Historians. Units: 3

This course offers students an introduction to the Latin language, including literature, vocabulary, grammar, and usage. It also offers historical, cultural, and political context for Latin language and literature.

HIST 3040. Latin II for Historians. Units: 3

This course offers students an introduction to the Latin language, including literature, vocabulary, grammar, and usage. It also offers historical, cultural, and political context for Latin language and literature.

HIST 3050. Ancient and Medieval Europe to the Renaissance. Units: 3

Institutions, culture, and political development of Europe from circa the eighth century B.C.E. to 1500. Formerly HIST 305.

HIST 3060. European History from the Renaissance to the Present. Units: 3

Institutions, culture, and political development of Europe from the Renaissance, circa 1500, to the Present. Formerly HIST 306 and HIST 307.

HIST 3100. Research Opportunity in History. Units: 3

An opportunity for students to learn research methods and gain important professional experience by working with a full-time faculty member on a research project. Facilitates mentorship opportunities for students who want to go on to graduate school or in professional settings. May be taken two times for six units. Graded credit/no credit.

HIST 3120. Historical Archaeology. Units: 3

Use of archaeological methods to study historic peoples. Historical and archaeological methods and their results. Previously ANTH 312 and HIST 312.

HIST 3160. Archival Practices. Units: 3

Applied approach to archival methods, the accessioning, de-accessioning, cataloging, calendar composition, storage of objects and archival materials, loan procedures, policies and legal issues. Field trips and projects required. Formerly ANTH/HIST 316.

HIST 3180. Introduction to Cultural Resource Management. Units: 3

General overview of the field of Cultural Resource Management in Museum Studies, Archaeology, and Public History. Also offered as HIST 3180. Students may not receive credit for both. Formerly known as ANTH 318.

HIST 3200. History of Ancient Greece. Units: 3

Greek history from the Minoan and Mycenaean civilizations through the successor states of the Greek Empire. Topics include the cultural and intellectual exchanges among peoples throughout the ancient Mediterranean and Aegean Seas. Formerly known as HIST 320.

HIST 3201. Race, Ethnicity and Immigration in the United States. Units: 3

This course explores the history of immigration and migration in the United States through the lens of race and ethnicity. Additional themes include citizenship, law, nationalism, violence, gender, sexuality, labor, and globalization. Offered as ES 3201 and HIST 3201, students may not receive credit for both.

HIST 3210. History of Rome. Units: 3

Roman history from the origin of the Republic to the end of Imperial Rome in the West. Major themes include the exchange of ideas throughout the ancient Mediterranean and the foundations of European culture. Formerly known as HIST 321.

HIST 3230. Introduction to Public History. Units: 3

Introduction to public history, focusing on museums, historic sites, libraries, and archives, and the issues involved in oral history, interviewing techniques, and diverse media and technologies. Projects and field trips are required. Formerly HIST 323 and HIST 324.

HIST 3240. Decolonizing Museums. Units: 3

Development of museums from colonial-era collecting, creation of colonial subjectivity, and political, economic, scientific, and spiritual exploitation. Confronts the museum as a site colonization and traces key Indigenous watershed moments that contested museum authority and neutrality. Global case studies will examine diverse decolonial initiatives and contemporary challenges.

HIST 3260. Historic Preservation. Units: 3

Quarter Prerequisite: HIST 324 and 325, or consent of instructor Examination of the methods, theories, and issues in historic preservation. Field trips and projects are required. Formerly HIST 326.

HIST 3290. Topics in Public History. Units: 3

Examination of topics in public history, including local history, conservation, historic architecture, living history and material culture. May be repeated for credit as topics change. Formerly HIST 329.

HIST 3300. Topics in Oral History. Units: 3

Quarter Prerequisite: HIST 324 and 325, or consent of instructor Examination of topics in oral history, including regional or ethnic groups, World War II, the Civil Rights movement, or the Vietnam War. May be repeated for credit as topics change. Formerly HIST 330.

HIST 3350. Modern Ireland. Units: 3

Survey of Ireland from 1798 to the present, with specific focus on the political, social, and economic consequences or English colonialism and modern nation building. Formerly HIST 335.

HIST 3360. Ancient Egyptian Archaeology. Units: 3

Examination of ancient Egyptian archaeological contexts that reveal specific themes about their people, history, society, and religion. Incorporates archaeological theory to interpret contexts. Incorporates the history of excavation and removal of objects from Egypt. Offered as ANTH 3360 and HIST 3360. Students may not receive credit for both. Formerly known as HIST 336 and ANTH 336.

HIST 3380. Ancient Egyptian Art. Units: 3

Examination of composition, artists, portraiture, color, technique and the principles of ancient Egyptian art, as seen through statuary, paintings, and wall carvings. Looks at the integration of art and writing. Includes studying objects at RAFFMA. Satisfies GE C4/UD-3, DI, G designations.

HIST 3390. Culture and Society in Ancient Egypt. Units: 3

Examination of cultural, economic, social, and religious structures in ancient Egypt. Includes topics such as women, daily life, mummification, fortification, and religion. Formerly known as HIST 339.

HIST 3400. African-American History, 1620-1865. Units: 3

History of African-American people in the United States during the slave era. Examines the lives of slaves, the slave owners, and the system that bound them together as well as the place of free blacks in American society. Formerly known as HIST 340.

HIST 3410. African-American History, 1865-Present. Units: 3

Social, cultural, political and economic history of African-American people from emancipation to the present. Places special emphasis on African-American agency, self-development and self-determination. Formerly known as HIST 341.

HIST 3420. American Indian History. Units: 3

Social, cultural, political, and economic history of American Indians. Special emphasis placed on American Indian agency, sovereignty and diversity. Formerly known as HIST 342.

HIST 3430. Great Debates in African American History. Units: 3

Examines African American history through major debates of influential figures, such as the dispute between Booker T. Washington and W.E.B. Du Bois regarding Black education and citizenship, the disagreement between Martin Luther King Jr. and Malcolm X about protest and non-violence, and the critique of patriarchy by Audre Lorde and other Black Feminists.

HIST 3450. Women in U.S. History, 1607-Present. Units: 3

Examines women's roles in American history from 1620 to the present. Special emphasis on the diversity of women's experiences and their struggles for social, economic, political and cultural equality from the colonial period through the present. Formerly Known as HIST 344 and HIST 345.

HIST 3460. Women in the Black Freedom Movement. Units: 3

Examines the roles of women in the struggle for social justice and black equality in America. Treats the historical background to the movement including the key women activists of the civil rights decade, 1954-1964. Formerly known as HIST 346.

HIST 3470. Black Freedom Movement Through Film. Units: 3

Explores the modern Civil Rights Movement through feature films, documentaries, and other selected works. Covers key events, organizations, leaders, and competing historical narratives . This is not a course in film studies or criticism.

HIST 3480. Black Panthers and Black Power. Units: 3

This course chronicles the Black Power Movement and the Black Panther Party. Beginning in 1966 as a local community group, the Panthers soon expanded across the nation and became Black Power's most well-known organization. The organization's free breakfast programs, armed confrontations with police, and other initiatives, placed it at the forefront of Black Power theorizing, organizing, and action.

HIST 3500. The American Colonies, 1607-1783. Units: 3

The thirteen colonies from European origins to the attainment of independence. Formerly known as HIST 350.

HIST 3510. The Evolution of American Democracy, 1783-1840. Units: 3

Analysis of the development of American society, politics and economy during the Confederation, Federalist, Jeffersonian and Jacksonian eras. Formerly Known as HIST 351.

HIST 3540. Civil War and Reconstruction. Units: 3

Background and causes of the Civil War and the problems of Reconstruction. Formerly HIST 354.

HIST 3560. The United States, 1877-1917. Units: 3

Transformation of the nation between the end of Reconstruction and entrance into World War I. Formerly HIST 356.

HIST 3570. The United States, 1917-1945. Units: 3

Principal developments in American life from World War I to the end of World War II. Formerly HIST 357.

HIST 3580. United States in World War II. Units: 3

The United States homefront during World War II, focusing on social, economic and constitutional issues. Formerly HIST 358.

HIST 3590. United States History, Cold War Era. Units: 3

Major changes in the United States between in the Cold War Era, 1945 to 1991. Formerly HIST 359.

HIST 3600. American History Through Film. Units: 3

Explores the cultural, social and economic issues that have shaped American history through the study and analysis of feature films. (Not a course in film studies or criticism.) Formerly HIST 360.

HIST 3610. Chicana/o History Through Film. Units: 3

General survey of the history of Chicanas/os in the United States from the mid-eighteenth century to the present through films, documentaries and selected historical works. Topics include Spanish conquest, Manifest Destiny, labor activism, education, the Chicano Movement, and other forms of political activism. Formerly HIST 361.

HIST 3620. LGBT History. Units: 3

Social, cultural, and political history of LGBT communities in the U.S. from the nineteenth century to the present. Topics include pre-Stonewall communities, political mobilization, and the contemporary LGBT rights movement. Formerly HIST 362.

HIST 3630. Race, Ethnicity, and Film in America, 1920-Present. Units: 3

This course utilizes documentary and popular film to better understand the experiences, representation, and resistance modes of people of color in the US. Students will explore racist imagery central to the American film industry during the 20th century while deeply analyzing film as a vital facet of political resistance and artistic production among people of color. Offered as ES 3630 and HIST 3630, students may not receive credit for both.

HIST 3680. The United States, 1960s. Units: 3

Examines political, social, and cultural changes in the United States during the turbulent decade of the 1960s. Formerly HIST 368.

HIST 3700. History of California. Units: 3

Political, economic, social and cultural development of California from Spanish times to the present. This course meets the state code requirement in state and local government. Formerly HIST 370.

HIST 3710. California Indian History. Units: 3

Social, cultural, political, and economic history of California Indians. Special emphasis placed on California Indian agency, sovereignty and diversity. Formerly HIST 371.

HIST 3740. Collections Management. Units: 3

Overview of methods and legal and ethical considerations in the care of objects, standards of acquisition and disposal, collection documentation, storage, handling, loans, and conservation of museum collections, as well as security and emergency planning. Formerly ANTH/HIST 374.

HIST 3750. Museum Management. Units: 3

Legal, financial, personnel matters, theories and practices of developing a mission statement, bylaws, various policies and plans that are standard administrative elements of museum operation. Museum departmental organization and staffing hierarchies are also discussed. Formerly HIST 375.

HIST 3760. Exhibition Development and Design. Units: 3

Introduction to the standards, considerations, and collaborative processes related to developing and designing interpretive museum exhibitions that promote affective and transformative visitor experiences. Coursework may contribute to planning exhibitions for the Anthropology Museum. Field trips and group work may be required.

HIST 3770. Historical Documentaries. Units: 3

Examination of the development and role of historical documentaries in American society, focusing on the role of the historian in the research and production of the documentaries as well as a critical analysis of the individual productions and their historical, material and intellectual content. Formerly HIST 377.

HIST 3780. Museum Curation. Units: 3

Principles and practices relating to core curatorial functions, the relationship of curatorship to museum missions, ethical and other challenges facing museums, acquisition proposals and concepts and curatorial practices.

HIST 3790. The History of Madness. Units: 3

Concepts of "madness" from an historical, global and comparative perspective from the eighteenth century to the present day, including the social construction of madness and views of mad people themselves. Formerly HIST 379.

HIST 3791. Disability History. Units: 3

An introduction to key topics in disability history, both within the United States and globally. Topics include understanding the complex social, political, legal, and cultural history related to disability, including literary and cultural depictions of disability, activist voices from the community, political conversations on accessibility and accommodation and healthcare, and changing understandings of non-normative bodies, and more.

HIST 3830. Classical Islamic Civilization. Units: 3

Introduction to the classical Islamic period in the Central and Western (North African and Ottoman) Islamic lands. Considers the development of Islam as a religion and civilization, the expansion of the Islamic world, and the rise of the Ottoman empire. Formerly known as HIST 383.

HIST 3840. Modern Middle East. Units: 3

Survey of the history of the Middle East since the eighteenth century, emphasizing the political and social history of Turkey, Iran, Iraq, Egypt, and the Levant (Lebanon, Palestine/Israel, Syria, Jordan). Formerly known as HIST 384.

HIST 3860. Africa to 1870. Units: 3

Deals with the main themes of African history to 1870: including the trans-Saharan and other intra-African trading and exchange networks, Indian Ocean trading system, Islam and Islamization, development of African state systems and stateless sociopolitical constructs, the development and abolition of the trans-Arab and trans-Atlantic slave trade and commodity export trades. Formerly known as HIST 385 and 386.

HIST 3870. Africa 1870 to Present. Units: 3

Deals with the main themes of African history since 1870, including European partition of the continent, resistance to partition and colonial rule, systems of colonial rule in Africa, Christianity and Islam during the colonial period, independence movements, post-colonial states and development issues. Formerly known as HIST 387.

HIST 3880. The Rise, Decline and Legacy of Apartheid South Africa. Units: 3

Development of racial segregation and apartheid policies in twentieth century South Africa. Explores the causes and consequences of the rise and collapse of apartheid. Formerly known as HIST 388.

HIST 3890. Images of Africa. Units: 3

Examination of cultural constructions of Africa through various forms of media created by Africans and non-Africans from the 17th Century to the present. Satisfies GE C4/UD-3, DI, G designations.

HIST 3900. History of Modern Mexico. Units: 3

Survey of Mexican history from the nineteenth century wars of independence to the present. Formerly known as HIST 390.

HIST 3910. Chicana/o History. Units: 3

Mexican-Americans in the United States from the Colonial period to the present, with special emphasis on the Southwest. Formerly known as HIST 391.

HIST 3940. Introduction to Writing and Research in History. Units: 3

Introduction to historical research and writing focused on the use and interpretation of sources, stages of the research process, development of historiography, and conventions of historical citations in various types of historical writings.

HIST 3950. Topics in History. Units: 3

Examination of topics of interest in history. May be repeated for credit as topics change. Formerly known as HIST 395.

HIST 3970. Topics in Egyptology. Units: 3

Examination of topics of interest in Egyptology. May be repeated for credit as topics change.

HIST 3990A. Community-Based Project. Unit: 1

Semester Prerequisite: a project proposal must be approved by the department in advance of enrollment. Quarter Prerequisite: a project proposal must be approved by the department in advance of enrollment Project with community-based groups or agencies such as historical, cultural, governmental, and/or educational institutions. May be taken six times for six units. No more than six units of credit for community-based project courses may be applied toward degree requirements. Graded credit/no credit. Formerly HIST 399A.

HIST 3990C. Community-Based Project. Units: 3

Semester Prerequisite: a project proposal must be approved by the department in advance of enrollment. Quarter Prerequisite: a project proposal must be approved by the department in advance of enrollment Project with community-based groups or agencies such as historical, cultural, governmental, and/or educational institutions. May be taken two times for six units. No more than six units of credit for community-based project courses may be applied toward degree requirements. Graded credit/no credit. Formerly HIST 399B and HIST 3990B.

HIST 3990E. Community-Based Project in Egyptology. Units: 3

Egyptology related project with community-based groups or agencies such as historical, cultural, governmental, and/or educational institutions. May be taken two times for six units. No more than six units of credit for community-based project courses may be applied toward degree requirements. Graded credit/no credit. Formerly HIST 3991.

HIST 4000. Early Medieval Europe. Units: 3

Survey of the political, economic, and social transformation of Europe from the fall of Rome through the eleventh century. Formerly known as HIST 400.

HIST 4010. High Medieval Europe. Units: 3

Survey of the political, economic, and social transformation of Europe during the high Middle Ages, from the eleventh century to the fourteenth century. Formerly known as HIST 401.

HIST 4020. Renaissance and Reformation. Units: 3

Principal political, economic, intellectual and religious developments in Europe from about 1300 to 1648. Formerly known as HIST 402.

HIST 4030. The Age of Absolutism and Enlightenment. Units: 3

The period from 1648 to 1789, emphasizing the development of the modern state, the new scientific movement and the growth of revolutionary ideas. Formerly known as HIST 403.

HIST 4050. Nazi Germany and the Holocaust. Units: 3

The rise of Nazi Germany with a focus on the intertwined worlds of perpetrators and victims of the Holocaust. Formerly known as HIST 405.

HIST 4060. European Intellectual History. Units: 3

The intellectual history of Europe from the Renaissance to the present. Formerly known as HIST 406.

HIST 4090. Twentieth Century Europe. Units: 3

Political and cultural history of Europe from the rise of fascism to the fall of communism. Formerly known as HIST 409.

HIST 4100. Hitler's Europe. Units: 3

Development of totalitarian ideologies focusing primarily on the theory and practice of National Socialism in Germany during the period 1918-1945. Formerly known as HIST 410.

HIST 4180. Early American Biography. Units: 3

Early American history through the medium of biography and related primary source documents. Formerly known as HIST 349.

HIST 4200. US Empire and Foreign Policy 1898-Present. Units: 3

This course analyzes US history and empire-building with a focus on the 20th century. Students explore the ways in which race, gender, and the growth of capitalism are inherently intertwined within this process. Content will trace the history of American occupations and economic and military interventions throughout numerous regions of the globe. Offered as ES 4200 and HIST 4200, students may not receive credit for both.

HIST 4220. 20th Century Americans. Units: 3

Biographical focus on key American leaders who affected the course of 20th century American history. Formerly HIST 422.

HIST 4260. Ancient and Early Imperial China. Units: 3

Political, social, economic, and cultural developments of China from earliest times to the founding of the Sui Dynasty (589 C.E.). Formerly known as HIST 426.

HIST 4280. Medieval China. Units: 3

Political, social, economic, and cultural developments in China from the founding of the Sui Dynasty (589 C.E.) through the fall of the Ming Dynasty (1644). Formerly known as HIST 428.

HIST 4290. Modern China I, 1644-1911. Units: 3

Political, social, economic, and cultural developments in China in the Qing Dynasty (1644-1911). Formerly known as HIST 429.

HIST 4310. Modern China II, 1911-Present. Units: 3

Political, social, economic, and cultural developments in China from the fall of the Qing Dynasty (1911) through the present. Formerly known as HIST 431 and HIST 432.

HIST 4330. Modern Chinese History in Fiction and Film. Units: 3

Retrospective and contemporary film and fiction are used as a window onto the political and cultural developments of China in the twentieth century.

HIST 4350. World War II in the Pacific. Units: 3

Major themes surrounding World War II in the Pacific, its context and impact (1931-1945). Formerly known as HIST 435.

HIST 4400. History of Modern East Asia. Units: 3

Political, social, economic, and cultural developments in China, Japan, and Korea from 1900 through the present. Formerly known as HIST 440.

HIST 4410. Ancient Egyptian Hieroglyphs. Units: 3

Study of the Ancient Egyptian language, including grammar, the connection of language with society and culture, scribal practices, ancient education, bureaucratic accounting and communication, and integration with art. Students may repeat for credit as the stage of the language or the script of the language changes. Students may repeat the same stage of the language or script with permission from the professor or Egyptology Certificate coordinator. May be repeated three times for nine units.

HIST 4420. Archaic Greece. Units: 3

Explores developments within the Greek world from the Minoan era to the threshold of the Classical age (ca. 2000-480 BCE) with special focus on the 'Archaic Age' (700-480 BCE).

HIST 4440. Roman Republic. Units: 3

A survey of Roman history during the Republican era, ca.753-44 BCE, from a variety of perspectives: political, social, diplomatic, economic, and intellectual.

HIST 4460. Age of Augustus. Units: 3

Examination of the Rome of Octavian (63 BCE-14 CE), later Augustus, including its literature, art, society, and religion.

HIST 4470. Impact of Warfare in Antiquity. Units: 3

Survey of military history from Bronze Age Greece (ca. 1200 BCE) through fall of Roman Empire in the West (CE 476) focusing on six interconnected themes: tactical and technological developments in warfare; military strategy and interstate diplomacy; the reciprocal effects of war and political systems; the social and economic bases of military activity; conversely, the impact of warfare on society, particularly its role in the economy and its effect upon the lives of both participants and non-combatants; finally, the ideological dimensions of war.

HIST 4480. Trade, Travel, and Migration in the Ancient Mediterranean World. Units: 3

Examines past and present through the study of ancient travel, trade, and migration in the Mediterranean (2000 BCE - 500 CE).

HIST 4490. Gender and Development in Africa. Units: 3

Using gender as a central category of analysis, the course interrogates underlying assumptions, theories, and empirical issues related to economic development and globalization on the continent from the nineteenth century to present day in Africa. Formerly known as HIST 449.

HIST 4510. The History of Health and Medicine in Africa. Units: 3

Health and disease in Africa from the pre-colonial period to present day, the connection between science, medicine, colonialism, the construction of difference, and responses to western bio-medicine. Formerly known as HIST 451.

HIST 4520. Ancient Egyptian History, Origins to c. 1700 B.C.E.. Units: 3

Studies the political, economic, and social past of ancient Egypt from the Predynastic Period through the end of the Middle Kingdom. Incorporates themes such as the origins of writing, state formation, pyramid building, bureaucratic shifts, civil war, and governmental collapse. Formerly HIST 452.

HIST 4530. Ancient Egyptian History, c. 1700 B.C.E. to 1000 B.C.E. Units: 3

Studies the political, economic, and social past of ancient Egypt during the Second Intermediate Period and the New Kingdom. Incorporates themes such as international war, empire, colonialism, Queenship, administration, religious heresy, international relations and war, foreigners in Egypt, civil wall, tomb robbing, and governmental collapse. Formerly offered as HIST 453.

HIST 4540. Ancient Egypt, c. 1000 B.C.E. to 495 C.E.. Units: 3

Studies the political, economic, and social past of ancient Egypt from the Third Intermediate Period through the Roman Period. Incorporates changes in each due to foreign powers ruling including the Libyans, Nubians, Persians, Assyrians, Greeks, and Romans. Examines themes such as archaism, international relations, founding of Alexandria, multiculturalism, dual Egyptian and Greek governmental systems, and Cleopatra. Formerly HIST 454.

HIST 4550. Egyptian Mining Expeditions, Their Buildings, and Their Slaves. Units: 3

Quarter Prerequisite: ANTH 336 or HIST 336 or instructor consent
Uses anthropological and archaeological theory to study the archaeological, textual, and representational evidence for large-scale Ancient Egyptian mining expeditions. Looks at how they were organized and supplied and their connections with the Egyptian military. Studies how people lived in the desert, including slaves, laborers, and administrators. Incorporates unpublished archaeological data for students to analyze. Formerly known as ANTH/HIST 455. Offered as ANTH 4550 and HIST 4550, students may not receive credit for both.

HIST 4560. Mughal India and the Early Modern World. Units: 3

Studies Mughal India within the context of the early modern world, the history and historiography of establishment of the Mughal Empire in the Indian subcontinent and the rise of European trading companies in this region. Formerly HIST 456.

HIST 4570. Modern India at the Crossroads of Empire. Units: 3

Late colonial and early post-colonial periods of South Asian history; the climax of anti-colonial movements in South Asia, WWII as it developed in South and Southeast Asia, the partition of British India, the two Indo-Pakistan wars, and the 1971 Bangladesh War. Formerly HIST 457.

HIST 4650. Modern Central America. Units: 3

Survey of the political, economic, and social history of the five major Central American nations-Nicaragua, El Salvador, Guatemala, Honduras, and Costa Rica-from their independence in the early 19th century to the present. Formerly HIST 465.

HIST 4660. Foreign Relations of Latin America. Units: 3

Survey of the foreign relations of the nations of Latin America with special emphasis on U.S.-Latin American relations. Formerly HIST 466.

HIST 4670. Latin American History Through Film. Units: 3

Cultural, social, political and economic issues that have shaped Latin America through the study and analysis of feature films and associated readings. Formerly HIST 467.

HIST 4690. Colonial Latin America. Units: 3

Survey of Spanish colonial system beginning with discovery of America and continuing to the independence period. Formerly HIST 469.

HIST 4700. Modern Latin America. Units: 3

Survey of the development and interaction of modern Latin American institutions in the major nations of Central and South America. Formerly HIST 470.

HIST 4800. History of Christianity I. Units: 3

Historical development of early Christianity from its origins to the fall of Rome. Formerly known as HIST 480.

HIST 4810. History of Christianity II. Units: 3

Historical development of Christianity from the fall of Rome to the eve of the Protestant Reformation. Formerly known as HIST 481.

HIST 4850. Arab-Israeli Conflict. Units: 3

Survey of the history of the Arab-Israeli conflict, concentrating on the evolution of political Zionism and Palestinian nationalism, the Palestine Mandate, and the wars and peace negotiations between Israel and neighboring Arab nations, and between Israel and the Palestinians since 1948. Formerly HIST 485.

HIST 4870. Topics in Modern Middle Eastern History. Units: 3

Quarter Prerequisite: HIST 383 or consent of instructor
Examines the modern political, economic, and social history of either Iraq, Turkey, Egypt, Syria or Saudi Arabia. May be taken three times for nine units as the topic changes. Formerly HIST 487.

HIST 4950. Politics of Oil. Units: 3

Survey of the history of the petroleum industry and its impact on global politics and economics, with an emphasis on the Middle East and United States foreign policy. Formerly HIST 495.

HIST 5000. Tudor and Stuart England. Units: 3

Principal political, social, economic and religious developments of England from 1485 to 1688. Formerly known as HIST 500.

HIST 5010. Britain, 1688-1901. Units: 3

Principal political, social, economic and religious developments in Britain in the age of revolution and reform, from the Glorious Revolution to the death of Queen Victoria. Formerly known as HIST 501.

HIST 5030. Europe Since 1945. Units: 3

Europe since 1945, emphasizing the evolution of supranational political, economic, diplomatic, and military institutions in the Cold War and post-Cold War eras. Formerly known as HIST 503.

HIST 5250. Editing and Publishing in History. Units: 3

Editing and document layout for publishing in print and online. Focus on a wide array of historical and technical editing practices, particularly as applied to the publication of an academic journal of history. May be taken two times for six units. Graded credit/no credit. Instructor approval is required. Formerly known as HIST 525.

HIST 5350. Studies in European National History. Units: 3

Historical development of individual European nations (for example, Germany, France, Great Britain, Russia, Spain) in the modern period. May be repeated for credit as topics change. Formerly known as HIST 535.

HIST 5400. Constitutional History of the United States. Units: 3

Quarter Prerequisite: HIST 200 or HIST 201, or PSCI 410 or consent of instructor
American constitutional development from English and European origins to the present day. This course meets the state code requirement in U.S. history and U.S. Constitution. Formerly known as HIST 540.

HIST 5410. U.S. Citizenship and the Law. Units: 3

History of citizenship in the United States from colonial period to the present including global and comparative perspectives. Formerly HIST 541.

HIST 5470. African American Intellectual History. Units: 3

This class covers influential and foundational ideas, debates, and thinkers in African American history. In particular, students will trace the evolution of Liberal Integrationism and Black Nationalism as paradigmatic strategies for survival, activism, and liberation. Consent required: Instructor Permission Only.

HIST 5560. Foreign Relations of the United States. Units: 3

Survey of American foreign policy with special emphasis on Americas rise to world power in the 20th century. Formerly known as HIST 556.

HIST 5600. History of the American West. Units: 3

Explores national expansion, conflict and conquest, and development of the American West as a national, transnational, cultural, economic, environmental, and societal crossroads, region and landscape focusing on the 19th through the 21st centuries. Course includes a focus on diversity and inclusion, global perspectives, and sustainability. Formerly known as HIST 560.

HIST 5610. Gender, Sex, and Conquest in the American West. Units: 3

Examines the links between gender and sexuality to the ideologies of White Supremacy, Nationalism, Manifest Destiny, and Domesticity during the nineteenth and twentieth centuries. Emphasis on Chicanas/os, but course also covers Native Americans, African Americans, and Asian Americans in the U.S. West. Formerly known as HIST 561.

HIST 5620. Historical Mythmaking in the U.S. Borderlands and American West. Units: 3

Examination of myths and the rise of tourism in the U.S. Borderlands and American West in the nineteenth and twentieth centuries. Contrasted with lived experiences in these regions. This course will explore popular myths of the U.S. borderlands and American West in the nineteenth and early twentieth centuries. Students will investigate the influence of myths, legends, folklore, and stereotypes on shaping the popular history of these regions. Moreover, this course will examine the role of myths on encouraging migration and tourism to these areas. The course will examine frontier narratives, printed stories, songs, film, art, and other forms of popular media. It will compare these myths to the realities of life experienced by diverse groups living in the West and U.S. Borderlands regions.

HIST 5640. Chicana/Mexicana Feminisms. Units: 3

Surveys the development of Chicana and Mexican feminism of the nineteenth and twentieth centuries in both the U.S. and Mexico. Topics include resistance strategies in colonization, labor activism, the Mexican Revolution, the Chicano Movement, and contemporary Chicana/Mexicana transnational political activism. Formerly HIST 564.

HIST 5650. Immigration and Ethnic American History. Units: 3

Comparison of the major ethnic groups in American history, and processes of immigration, migration, and ethnic identity formation. Formerly HIST 565.

HIST 5680. History of the U.S. - Mexico Borderlands. Units: 3

Social, cultural economic, and political history of the U.S. - Mexico borderlands from the Spanish colonial period to the contemporary period. Topics include colonialism, nationalism, globalization and immigration, citizenship, gender, sexuality, and violence and how they shape Chicana/o identity in the region. Formerly known as HIST 568.

HIST 5700. Teaching History in the Field. Units: 3

A practicum where students learn high-impact teaching practices with the goal of preparing pre-credential students teachers to teach historical/social science content. Introduces methods and tools of historical analysis and explores the mechanics of teaching history and historical writing. This course provides students with invaluable opportunities to engage with the practices and pedagogy of teaching history. Students must meet competency requirements before they can sign up for the course (2.85 GPA as well as C or better in all required program courses). Students must get the consent of the department chair and must develop a semester-long plan for meetings and coursework. The course fulfills the final requirement for the CSET-waiver. Graded credit/no credit.

HIST 5750. Internship in History. Units: 3

Semester Prerequisite: Major in History and consent of the internship coordinator or department chair. Quarter Prerequisite: Major in History and consent of the internship coordinator or department chair
Supervised work and study in work situations involving historical skills. May be taken two times for six units. Graded credit/no credit. Formerly known as HIST 575.

HIST 5750E. Internship in Egyptology. Units: 3

Supervised work and study in work situations involving Egyptological skills. May be taken two times for six units. No more than six units of credit for internship courses courses may be applied toward degree requirements. Graded credit/no credit.

HIST 5840. Proseminar in History. Units: 3

Quarter Prerequisite: HIST 394 or consent of instructor
Historiographical seminar introducing advanced junior-level students to a specific topic or sub-field of history. Provides training and introduction to historical argumentation and criticism with an emphasis on secondary works and contrasting interpretations. Department consent required. Formerly HIST 494.

HIST 5850. Research Seminar in History. Units: 3

Semester Prerequisite: HIST 5840 or consent of instructor. Quarter Prerequisite: HIST 494 or consent of instructor
Senior-level seminar focused on the use of historical primary sources with the final goal of producing a substantial research paper. Involves seminar discussions and individual meetings with instructor. Satisfies WI designation.

HIST 5951. Independent Study. Unit: 1

Semester Prerequisite: A minimum overall grade point average of 3. Quarter Prerequisite: a minimum overall grade point average of 3
Special topics in historical research. Consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the semester in which the course is to be taken. (Formerly known as HIST 595B.

HIST 5953. Independent Study. Units: 3

Semester Prerequisite: A minimum overall grade point average of 3. Quarter Prerequisite: a minimum overall grade point average of 3
Special topics in historical research. Consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. May be taken two times for six units. Formerly HIST 595D.

HIST 5953E. Independent Study in Egyptology. Units: 3

Special topics researching Ancient Egypt. Consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. May be taken two times for six units. No more than six units of credit for independent study courses may be applied toward degree requirements. Formerly HIST 5954.

HIST 5970. Senior Honors Project. Units: 4

Semester Prerequisite: Overall undergraduate GPA of 3 or better. Average of at least 3.5 in history major, including courses for the major taken elsewhere. At least one half of the course work required in the major is completed at this university. Formal application for honors must be submitted and approved
Original research in an area of historical studies, culminating in a major research report receiving approval of the history faculty. Enrollment limited to students whose formal application for departmental honors is approved. Department consent required. Formerly known as HIST 597.

HIST 6000. Proseminar in History. Units: 2

Semester Prerequisite: Consent of instructor. Quarter Prerequisite: consent of instructor
Survey of the concepts and ideas that historians employ to study, describe and analyze globalization. Formerly known as HIST 600. Department consent required.

HIST 6001. Historical Thinking and Research. Units: 3

Introduction to a variety of important methodological approaches and theoretical debates about writing history that are influential across geographical contexts and temporal periods. Students will be challenged to think across fields, and think collectively and expansively about the study and praxis of history.

HIST 6002. Topics in Global/World History. Units: 3

An advanced examination of the field of world and global history based on the study of global problems, processes, and exchange.

HIST 6003. Topics in United States History. Units: 3

A survey of selected key themes, historiography, and methodological approaches in the study of United States history. May be taken two times for six units.

HIST 6004. The Historian's Craft. Units: 3

This graduate-level course will introduce History students to essential professional skills that will help them work in the field as historians in a number of different professions, from the archives, to the classroom, to the museum, to consultancies, and beyond. Through seminars, guest lectures, excursions, and practical activities that extend beyond the classroom, students will be involved in individual and team projects, community engagement, and professional development that will ensure their success in their graduate studies and beyond graduation. Consent required.

HIST 6005. Advanced Writing and Research in History Scholarship. Units: 3

This graduate-level course will guide students through the preliminary research and writing processes of their theses, projects, and portfolios. Through scaffolded research and writing assignments, students will work on historiographies, methodology sections, outlines, abstracts, formatting, citations, and more, and they will make section-by-section progress on their individual projects through group accountability projects and through individual consultations with faculty. This course is offered and recommended in the second-year (fall semester) of History MA students. Consent required.

HIST 6018. Advanced Early American Biography. Units: 3

Advanced studies in early American history through the medium of biography and related primary source documents.

HIST 6030. Seminar in Modern Military History. Units: 3

Analyses of selected military operations since World War II. May be taken two times for six units as topics change, with the consent of the student advisor. Formerly known as HIST 603.

HIST 6051. Advanced Study of the Evolution of American Democracy, 1783-1840. Units: 3

Advanced analysis of the development of American society, politics and economy during the Confederation, Federalist, Jeffersonian and Jacksonian eras.

HIST 6054. Advanced History of the Civil War and Reconstruction. Units: 3

Advanced study of background and causes of the Civil War and the problems of Reconstruction.

HIST 6160. Advanced Archival Practices. Units: 3

Advanced approach to archival methods, the accessioning, de-accessioning, cataloging, calendar composition, storage of objects and archival materials, loan procedures, policies and legal issues. Field trips and projects are required. Formerly HIST 616.

HIST 6180. Advanced Cultural Resource Management. Units: 3

Advanced analysis of the fields of Cultural Resource Management in Museum Studies, Anthropology and Public History. Formerly HIST 618.

HIST 6200. Advanced Studies Of The 20th Century World. Units: 3

Advanced study of the major events and significant individuals of the 20th century are explored and analyzed.

HIST 6230. Advanced Public History. Units: 3

Semester Prerequisite: HIST 3230, graduate student standing, or consent of instructor

Advanced study of public history. Projects and field trips are required. Department consent required. Formerly HIST 623 and HIST 624.

HIST 6260. Advanced History of Ancient and Early Imperial China. Units: 3

Advanced studies in the political, social, economic, and cultural developments of China from earliest times to the founding of the Sui Dynasty (589 C.E.).

HIST 6280. Advanced History of Medieval China. Units: 3

Advanced studies in the political, social, economic, and cultural developments in China from the founding of the Sui Dynasty (589 C.E.) through the fall of the Ming Dynasty (1644).

HIST 6290. Advanced History of Modern China I, 1644-1911. Units: 3

Advanced studies in the political, social, economic, and cultural developments in China in the Qing Dynasty (1644-1911).

HIST 6300. California Water History. Units: 3

History of the development of water policy in California from pre-colonization times to present. Formerly known as HIST 630.

HIST 6305. Advanced History of Modern Ireland. Units: 3

Advanced survey of Ireland from 1798 to the present, with specific focus on the political, social, and economic consequences or English colonialism and modern nation building.

HIST 6330. Advanced Modern Chinese History in Fiction and Film. Units: 3

Advanced studies of retrospective and contemporary film and fiction are used as a window onto the political and cultural developments of China in the twentieth century.

HIST 6350. Advanced History of World War II in the Pacific. Units: 3

Advanced studies in the major themes surrounding World War II in the Pacific, its context and impact (1931-1945).

HIST 6380. Advanced History of Modern China II, 1911- Present. Units: 3

Advanced studies in the political, social, economic, and cultural developments in China from the fall of the Qing Dynasty (1911) through the present.

HIST 6440. Advanced History of Modern East Asia. Units: 3

Advanced studies in the political, social, economic, and cultural developments in China, Japan, and Korea from 1900 through the present.

HIST 6450. Advanced U.S. Women's History, 1607-Present. Units: 3

Advanced examination of women's roles in American history from 1620 to the present. Special emphasis on the diversity of women's experiences and their struggles for social, economic, political and cultural equality from the colonial period through the present.

HIST 6460. Advanced Age of Augustus. Units: 3

Advanced examination of the Rome of Octavian (63 BCE to 14 CE), later Augustus, including its literature, art, society, and religion.

HIST 6465. Advanced History of Women in the Black Freedom Movement. Units: 3

Advanced studies in the roles of women in the struggle for social justice and black equality in America. Treats the historical background to the movement including the key women activists of the civil rights decade, 1954-1964.

HIST 6490. Advanced Gender and Development in Africa. Units: 3

Using gender as a central category of analysis, the course interrogates underlying assumptions, theories, and empirical issues related to economic development and globalization on the continent from the nineteenth century to present day in Africa.

HIST 6500. Advanced History of Southern Africa. Units: 3

Advanced studies of the history of the region of Southern Africa, including early African settlements, colonization, apartheid, independence and contemporary developments.

HIST 6510. Advanced History of Health and Medicine in Africa. Units: 3

Advanced studies in health and disease in Africa from the pre-colonial period to present day, the connection between science, medicine, colonialism, the construction of difference, and responses to western bio-medicine.

HIST 6550. Advanced Egyptian Mining Expeditions, Their Buildings, and Their Slaves. Units: 3

Uses anthropological and archaeological theory to study the archaeological, textual, and representational evidence for large scale Ancient Egyptian mining expeditions. Looks at how they were organized and supplied and their connections with the Egyptian military. Studies how people lived in the desert, including slaves, laborers, and administrators. Incorporates unpublished archaeological data for students to analyze.

HIST 6620. Advanced LGBT History. Units: 3

Advanced social, cultural, and political history of LGBT communities in the U.S. from the nineteenth century to the present. Topics include pre-Stonewall communities, political mobilization, and the contemporary LGBT rights movement.

HIST 6660. Advanced Studies in Foreign Relations of Latin America. Units: 3

Advanced survey of the foreign relations of the nations of Latin America with special emphasis on U.S.-Latin American relations.

HIST 6690. Advanced Studies in Colonial Latin America. Units: 3

Advanced survey of Spanish colonial system beginning with discovery of America and continuing to the independence period.

HIST 6700. Advanced Studies in Modern Latin America. Units: 3

Advanced survey of the development and interaction of modern Latin American institutions in the major nations of Central and South America.

HIST 6750. Advanced Museum Management. Units: 3

Advanced theories and methods used in all aspects of contemporary museum management. Field trips are required. Formerly HIST 675.

HIST 6755. Advanced History Internship. Units: 3

Advanced supervised work and study in professional situations involving historical skills. May be taken 2 times for 6 units. Graded credit/no credit.

HIST 6760. Advanced Exhibit Design. Units: 3

Advanced examination of the theories and methods used in designing exhibits, focusing on interpretation and exhibit creation. Field trips and projects are required. Formerly HIST 676.

HIST 6780. Advanced Museum Curation. Units: 3

Advanced principles and practices relating to core curatorial functions, the relationship of curatorship to museum missions, ethical and other challenges facing museums, acquisition proposals and concepts and curatorial practices. Formerly HIST 678.

HIST 6790. Advanced History of Madness. Units: 3

Advanced studies of concepts of madness from an historical, global and comparative perspective from the eighteenth century to the present day, including the social construction of madness and views of mad people themselves.

HIST 6791. Advanced Studies in Disability History. Units: 3

An advanced study in key topics in disability history, both within the United States and globally. Topics include understanding the complex social, political, legal, and cultural history related to disability, including literary and cultural depictions of disability, activist voices from the community, political conversations on accessibility and accommodation and healthcare, and changing understandings of non-normative bodies, and more.

HIST 6850. Advanced Arab-Israeli Conflict. Units: 3

Advanced survey of the history of the Arab-Israeli conflict, concentrating on the evolution of political Zionism and Palestinian nationalism, the Palestine Mandate, and the wars and peace negotiations between Israel and neighboring Arab nations, and between Israel and the Palestinians since 1948.

HIST 6860. Advanced Modern Iran. Units: 3

Quarter Prerequisite: HIST 383 or consent of instructor
Advanced examination of the political, economic, and social history of Iran from the fall of the Safavid Empire in 1722 to the present, with emphasis on the Pahlavi era and the Islamic Revolution of 1979.

HIST 6900. Advanced Topics in History. Units: 3

In depth study of an advanced topic in history. May be repeated for credit as topics change. Formerly HIST 690.

HIST 6901. Advanced Topics in Egyptology. Units: 3

Advanced examination of topics of interest in Egyptology. May be repeated for credit as topics change.

HIST 6910. Advanced Chicana/o History. Units: 3

Advanced history of Mexican-Americans in the United States from the Colonial period to the present, with special emphasis on the Southwest.

HIST 6940. Graduate Portfolio. Units: 3

Quarter Prerequisite: advancement to candidacy and consent of program coordinator

Independent graduate capstone portfolio conducted under guidance of the major advisor and advisory committee culminating in a portfolio that includes major research papers and comprehensive examinations.

HIST 6950. Advanced Politics of Oil. Units: 3

Advanced survey of the history of the petroleum industry and its impact on global politics and economics, with an emphasis on the Middle East and United States foreign policy.

HIST 6951. Directed Graduate Studies. Unit: 1

Graduate-level independent study for students; to be conducted under direct supervision of a faculty member from the student's committee and with approval of the appropriate graduate coordinator. May be taken six times for six units.

HIST 6953. Directed Graduate Studies. Units: 3

Graduate-level independent study for students; to be conducted under direct supervision of a faculty member from the student's committee and with approval of the appropriate graduate coordinator. May be taken two times for six units.

HIST 6953E. Directed Graduate Studies in Egyptology. Units: 3

Graduate-level independent study for students interested in Ancient Egypt; to be conducted under direct supervision of a faculty member from the student's committee and with approval of the appropriate graduate coordinator. Course can be repeated for credit with approval. May be taken two times for six units. No more than six units of credit for directed graduate studies courses may be applied toward degree requirements. Formerly HIST 6954.

HIST 6955A. Community-Based Project. Unit: 1

Advanced project with community-based groups or agencies such as historical, cultural, governmental, and/or educational institutions. No more than three units of credit for community-based project courses may be applied toward degree requirements. May be taken three times for three units. Graded credit/no credit.

HIST 6955C. Community-Based Project. Units: 3

Semester Prerequisite: A project proposal must be approved by the department in advance of enrollment. Quarter Prerequisite: a project proposal must be approved by the department in advance of enrollment

Advanced project with community-based groups or agencies such as historical, cultural, governmental, and/or educational institutions. May be taken two times for of six units. No more than six units of credit for community-based project courses may be applied toward degree requirements. Graded credit/no credit. Formerly HIST 6955B.

HIST 6955E. Advanced Community-Based Project in Egyptology. Units: 3

Advanced project with community-based groups or agencies such as historical, cultural, governmental, and/or educational institutions related to the student of Ancient Egypt. May be taken two times for six units. No more than six units of credit for community-based project courses may be applied toward degree requirements. Graded credit/no credit. Formerly HIST 6956.

HIST 6960. Graduate Project. Units: 3

Independent graduate project conducted under guidance of the major advisor and advisory committee culminating in a written project.

HIST 6970. Thesis. Units: 3

Independent graduate research conducted under the guidance of the major advisor, with assistance from the other members of the student's committee, and resulting in a thesis which must be successfully defended.

HIST 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Thesis, or Project, or Portfolio in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

HIST 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Thesis, or Project, or Portfolio in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

HIST 6992. Continuous Enrollment for Graduate Candidacy Standing. Units: 2

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Thesis, or Project, or Portfolio in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

HIST 6993. Continuous Enrollment for Graduate Candidacy Standing. Units: 3

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Thesis, or Project, or Portfolio in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

HIST 6994. Continuous Enrollment for Graduate Candidacy Standing. Units: 4

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Thesis, or Project, or Portfolio in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

HIST 6995. Continuous Enrollment for Graduate Candidacy Standing. Units: 5

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Thesis, or Project, or Portfolio in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

HIST 6996. Continuous Enrollment for Graduate Candidacy Standing. Units: 6

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Thesis, or Project, or Portfolio in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

Honors (HON)

Courses

HON 1100. Writing Rhetorically. Units: 3

Concentrated composition course for first-year Honors students. Examines the ways written language functions in various contexts. Students will conduct research and draw upon critical readings of texts to develop their own arguments, as well as examine and use rhetorical strategies that respond to different situations. Satisfies GE A2/1A.

HON 1200. Thinking Critically. Units: 3

Analysis of various kinds of reasoning employed in everyday life and in more specialized contexts, to develop each student's skill in understanding and using carefully constructed arguments. Illustrations will include materials drawn from contemporary issues. Satisfies GE A3/1B, WI designation.

HON 1300. Communicating Orally. Units: 3

Quarter Prerequisite: acceptance into the Honors Program

Introduction to effective speech communication with emphasis on thinking about the decisions that are made to construct informative and persuasive presentations that are rhetorically and visually engaging. Satisfies GE A1/1C.

HON 1400. Constructing Knowledge. Units: 3

This course is an exploration of the ways in which knowledge is constructed at the individual and societal level. Students will learn how to think about the world from a variety of diverse perspectives--including historical, political, socioeconomical, and cultural. The course explores texts from a variety of influential historical moments to examine how people understand the world in different times and places. Concentrating on questions of epistemology--how do you know what you know--and expression--how do you explain what you know--students will learn how to be more empathetic with other humans, how to imagine others' perspectives, and how to interact with people with a variety of points of view. Questions explored include: How does knowledge of past perspectives, influence present-day? How are different voices and experiences expressed and valued? How do we go about developing diverse knowledge sets? Satisfies GE C2/3B, WI designation. Formerly known as HON 1000. Department consent required.

HON 3000. Service Learning in Honors. Units: 2

Semester Prerequisite: Enrollment in the Honors College
This course engages students in a collaborative, community-based service project in the Inland Empire. Each section will focus on a specific local issue chosen by the instructor (e.g., food insecurity, environmental justice, educational equity). Students will work as a team to research the topic, partner with a local organization, and implement a meaningful project. Class sessions will include discussions, reflective writing, and skills workshops in communication, teamwork, and public problem-solving. May be taken two time for up to 4 units.

HON 3010. Self-Directed Service Learning in Honors. Units: 2

Semester Prerequisite: Enrollment in University Honors College
This course is a student-designed service learning course in which students complete a minimum of 50 hours of volunteer work connected to a social issue. Course includes research, reflection, and seminar discussion. Emphasizes personal growth, civic engagement, and synthesis of academic and experiential learning. May be taken two times or up to 4 units.

HON 3100. Natural Sciences and the Humanities. Units: 3

An examination of the means by which the approaches to constructing knowledge in Natural Sciences and the Humanities can be utilized together to address big questions. Team-taught with course materials and readings drawn from relevant disciplines. Co-requisite with HON 3150. With HON 3150, Satisfies GE C4/UD-3, G, WI designations.

HON 3150. Natural Sciences and the Humanities Praxis. Units: 3

Semester Prerequisite: Acceptance into the University Honors Program
Semester Corequisite: HON 3100
An examination of the means by which the approaches to constructing knowledge in Natural Sciences and the Humanities can be utilized together to address big questions. Team-taught with course materials and readings drawn from relevant disciplines. Satisfies GE B5/UD 5.

HON 3200. Social Sciences and Natural Sciences Seminar. Units: 3

Semester Prerequisite: Acceptance into the University Honors Program
Semester Corequisite: HON 3250
An examination of the means by which the approaches to constructing knowledge in Natural Sciences and the Humanities can be utilized together to address big questions. Team-taught with course materials and readings drawn from relevant disciplines. Satisfies GE B5/UD-5, WI designation.

HON 3250. Social Sciences and Natural Sciences Praxis. Units: 3

A problem and/or project-based application of the approaches to constructing knowledge in Natural Sciences and the Humanities that brings them together to address big questions. Team taught with course materials and readings drawn from relevant disciplines. Satisfies GE D4/UD-4, DI, WI designations.

HON 3300. Social Science and the Humanities Seminar. Units: 3

Semester Prerequisite: Acceptance into the University Honors Program
Semester Corequisite: HON 3350
An examination of the means by which the approaches to constructing knowledge in Natural Sciences and the Humanities can be utilized together to address big questions. Team-taught with course materials and readings drawn from relevant disciplines. Satisfies GE C4/UD-3, G, WI designations.

HON 3350. Social Science and the Humanities Praxis. Units: 3

A problem and/or project-based application of the approaches to constructing knowledge in Natural Sciences and the Humanities that brings them together to address big questions. Team taught with course materials and readings drawn from relevant disciplines. Satisfies GE D4/UD-4.

HON 3510. Multidisciplinary Approaches in the Arts and Humanities. Units: 3

Examination of how research in Arts and Humanities incorporates theories, concepts, methodologies, and paradigms from other disciplines and why researchers reach outside their fields to advance or present their work. Satisfies C4/UD-3, WI, G.

HON 3520. Multidisciplinary Approaches in the Natural Sciences. Units: 3

Examination of how research in Natural Sciences incorporates theories, concepts, methodologies, and paradigms from other disciplines and why researchers reach outside their fields to advance or present their work. Satisfies GE B5/UD-5, WI.

HON 3530. Multidisciplinary Approaches in the Social Sciences. Units: 3

Examination of how research in Social and Behavioral Sciences incorporates theories, concepts, methodologies, and paradigms from other disciplines and why researchers reach outside their fields to advance their work. Satisfies GE D4/UD-4, WI, G, DI.

HON 4100. Junior Research Exploration Workshop. Unit: 1

Semester Prerequisite: Membership in the University Honors Program. Junior-level Standing

Workshop designed to engage students in exploration of research methods and topics across disciplines. Students will meet to discuss research strategies and will begin to formulate projects for their honors theses. Graded credit/no credit.

HON 4200. Collaborative Project Workshop. Unit: 1

Semester Prerequisite: 2 HON 3000-level classes. Quarter Prerequisite: HON 306

Workshop designed to advance progress on students' collaborative community projects. Students will work together to discuss project strategies and challenges and to review one another's work.

HON 4300. Junior Research Development Workshop. Unit: 1

Workshop designed to guide students in defining an honors thesis project, initiating research, and applying project management strategies to the development of a work plan. Students will also explore career pathways and graduate study in their fields of interest. Graded credit/no credit.

HON 4400. Senior Research Presentation Workshop. Unit: 1

Workshop designed to deepen students understanding of research processes in their chosen field by conducting research for their honors thesis projects and troubleshooting challenges. Students will also identify and begin applying for career opportunities and/or graduate programs. Graded CR/NC.

HON 5000. Senior Thesis Project. Unit: 1

Workshop designed to complete senior honors theses and to prepare students for presentation of work. Students will review one another's work, collaborate on the planning of the Spring Symposium, and workshop their presentations. Graded credit/no credit.

Hospitality Management (HOSM)

Courses

HOSM 1600. Restaurant Management. Units: 3

The principles of restaurant management and foodservice operations with particular attention to safety, sanitation, hygiene and cleanliness standards. Topics include menu planning, concept development, food production methods, procurement, budgeting and cost control analysis. This course will teach and assess the Food Protection Manager certification exam. Offered as HOSM 1600 and MKTG 1600, students may not receive credit for both.

HOSM 2500. Introduction to Hospitality and Tourism. Units: 3

This course includes the management of hotels, clubs, casinos, and resort properties in the areas of operations, customer service delivery, technology, property maintenance, and quality assurance. Front desk, rooms division, human resources, concierge, banquet, facilities, sales and marketing, and other departments will be reviewed. Tourism topics include destination marketing, itinerary planning, global travel, and intercultural communications that are the prerequisites for the annual study abroad to Italy during spring break. Offered as HOSM 2500 and MKTG 2500, students may not receive credit for both.

HOSM 3700. Customer Relationship Management. Units: 3

This course provides students with an in-depth understanding of customer relationship management, blending theoretical frameworks with practical strategies and ethical considerations. Students will explore essential aspects of managing customer interactions, preparing them to apply these insights to real-world scenarios. The course aims to equip students with the skills needed to enhance customer satisfaction, loyalty, and profitability in their future careers.

HOSM 3800. Global Issues in Hospitality Management. Units: 3

This course offers a deep dive into the global hospitality industry, emphasizing the complexities of managing operations across different cultures in the areas of human resources, guest expectations, service standards, and management practices. Topics include employee labor, marketing strategies, food and beverage management, and sustainable practices in hospitality and tourism. Case studies and real-world scenarios from various countries provide practical insights into adapting business strategies to diverse market conditions, focusing on developing cultural intelligence and effective communication skills essential for managing international teams and enhancing guest experiences. Students gain an immersive understanding of the global hospitality landscape through interactive lectures, industry guest speakers, and field trips in the host country.

HOSM 3900. Tourism and Sustainable Development. Units: 3

This course explores the intersection of tourism and sustainable development through the lens of the United Nations Sustainable Development Goals (SDGs) and related frameworks established by the World Tourism Organization (UNWTO). Students will gain a comprehensive understanding of how tourism can contribute to sustainable development while addressing climate change and environmental stewardship. The course integrates theoretical knowledge with practical applications to prepare students for hospitality management careers supported by a strong foundation in sustainability.

HOSM 4500. Hotel Operations Tactics and Strategies. Units: 3

Quarter Prerequisite: No prerequisites
Hotel Operations Tactics and Strategies (HOTS) is a business management simulation to operate a large hotel where students develop technical and decision-making skills to increase market share, maximize revenues and increase profitability. A hotel's financial results depend on its ability to construct, promote and deliver a competitive price/value proposition to the marketplace. Student teams compete in a virtual environment that leads to critical thinking outcomes in the areas of operations, communications, revenue management, strategic planning, teamwork and career readiness. Course offered as HOSM 4500 and MKTG 4500; credit may not be awarded for both.

HOSM 5100. Innovation in Hospitality. Units: 3

Concept creation and development of a restaurant, hotel, or tourism-related venue in the design of a business model that aligns with industry standards. The curriculum will explore the latest trends and innovations in business and industry through case studies and interactive seminars with owners and operators.

HOSM 5300. Meetings and Event Planning. Units: 3

The process of planning, developing, and coordinating a variety of meetings and events in hotels, clubs, convention centers, trade shows, and sports and entertainment venues. Topics include forecasting revenues, budget preparation, controlling expenses, contract negotiations, vendor selection, and supervising event personnel. Course offered as HOSM 5300 and MKTG 5300; credit may not be awarded for both.

HOSM 5400. The Art and Science of Wine. Units: 3

Semester Prerequisite: Must be 21 years or older to take the course and must have satisfied quantitative reasoning lower division GE requirements

Viticulture (grape growing), viniculture (preparation of grapevine for winemaking), and enology (winemaking) are discussed in terms of climate, temperature, soil, grape structure, and fermentation byproducts. Specific wine formulae for each step in the process will be explored. Tastes, aromas, and appearance of wine due to external factors will be assessed through the WSET Level 2 Systematic Approach to Tasting, and the Level 2 exam will be given (a globally recognized wine certification). Growing and winemaking processes and technological use in California will be compared with global methods. Satisfies GE B5/UD-5, G designation. Materials fee required. Department consent required.

HOSM 6200. Hospitality Services Management. Units: 3

Human resource management and organizational behavior in systems and quality assurance for coordinating the management of services. Service management and guest service theories and best practice strategies will be reviewed as well as leadership and motivational theories towards efficiency and optimization in the service delivery process.

HOSM 6300. Contemporary issues in Hospitality and Tourism. Units: 3

Contemporary local and global issues and advanced topics in hospitality and tourism will be explored in areas such as technology, sustainability, sustainable tourism development, wellness, and social business. Learning to work in teams on problem-based, consultancy projects is a valued real-world skill in the labor-intensive hospitality industry. The required project in this course will be evaluated by business owners and/or operators related to the project topic.

Human Resource Management (HRM)

Courses

HRM 4550. Human Resources Management. Units: 3

Policies related to human resources management, including job design; equal employment opportunity and employee rights; recruiting, selecting, training, and managing employees; and compensation.

HRM 4560. Staffing. Units: 3

Theory and practice of employee selection, training, and performance appraisal. Formerly offered as HRM 456.

HRM 4570. Industrial and Labor Relations. Units: 3

Quarter Prerequisite: HRM 455 or PSYC 355
Analysis of historical, political, legal, economic and managerial forces which lead to the development of labor unions and collective bargaining. Focus on legal rights of employees and managerial rights of employer. Involves case law and bargaining simulation. Formerly offered as HRM 457.

HRM 4580. Employment Law. Units: 3

Semester Prerequisite: HRM 4550 or PSYC 3355. Quarter Prerequisite: HRM 455 or PSYC 355
An evaluation of fair employment practices in employment. Course emphasizes anti-discriminatory legislation and its application to employer-employee relationships. Formerly offered as HRM 458.

HRM 4590. Human Resources Development. Units: 3

Semester Prerequisite: HRM 4550 or PSYC 3355. Quarter Prerequisite: HRM 455 or PSYC 355
Human resources development cover topics from learning and motivation theory, training needs assessment, employee orientation, and skills training to performance management and coaching. It will allow students to have a clear understanding of talent development concepts, processes, and practices. It also teaches students how to put these concepts into practice in a variety of organizations.

HRM 5560. Compensation and Performance. Units: 3

Semester Prerequisite: HRM 4550, or HRM 6410, or PA 6620, or PSYC 3355, or equivalent course, or instructor permission
An examination of reward systems, both financial and non-financial, in the business enterprise. Financial rewards include the process of job analysis, job evaluation, and the market surveys with an emphasis on the firm's competitive strategy. Benefit administration and compensation systems for special groups are also presented. Various systems of performance management are studied, including individual employee performance appraisals.

HRM 5570. Strategic Human Resource Management. Units: 3

Semester Prerequisite: HRM 4550, or HRM 6410, or PA 6620, or PSYC 3355, or equivalent course, or instructor permission
Explores the strategic role of human resource management in organizations. Topics include alignment of HR practices with organizational goals, workforce planning, talent management, and the impact of HR on organizational effectiveness.

HRM 5580. California Human Resources. Units: 3

Semester Prerequisite: HRM 4550, or HRM 6410, or permission of instructor
Current laws, legal rulings, and regulations with a California specific emphasis.

HRM 5590. International Human Resources. Units: 3

Semester Prerequisite: HRM 4550, HRM 6410, or permission of instructor

Discuss global business, international staffing assignments, and leaders for global organizations.

HRM 5755. Internship. Unit: 1

Semester Prerequisite: Consent of college internship coordinator. Quarter Prerequisite: senior standing preferred; consent of instructor and the departments internship coordinator
Supervised work and study in private or public organizations. May be repeated for credit. A total of six units of Jack H. Brown College of Business and Public Administration 5753 or 5755 courses may be applied toward graduation. Graded credit/no credit.

HRM 5915. Contemporary Topics in Human Resources Management. Unit: 1

Analysis and discussion of selected topics relevant to managing human resources effectively in the contemporary and dynamic business world. May be repeated for credit as topics change.

HRM 5930. Contemporary Topics in Human Resources Management. Units: 3

Analysis and discussion of selected topics relevant to managing human resources effectively in the contemporary and dynamic business world. May be repeated for credit as topics change.

HRM 5951. Independent Study. Unit: 1

Semester Prerequisite: Junior status, or graduate status
Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Course is cross-listed across different departments within the college.

HRM 5952. Independent Study. Units: 2

Semester Prerequisite: Junior status, or graduate status
Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Formerly offered as 595B. Course is cross-listed across different departments within the college.

HRM 5953. Independent Study. Units: 3

Semester Prerequisite: Junior status, or graduate status
Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Formerly offered as 595D. Course is cross-listed across different departments within the college.

HRM 5955. Independent Study. Unit: 1

Semester Prerequisite: Junior status, or graduate status
Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Course is cross-listed across different departments within the college.

HRM 6410. Human Resource Management. Units: 3

Analysis of specific areas of human resource management. Topics include strategic human resource management, staffing, performance management, compensation, labor relations and human resource development. Formerly offered as MGMT 641, MGMT 6410.

HRM 6983. Culminating HR Experience. Units: 3

Semester Prerequisite: HRM 6410, or PA 6620, or equivalent course, or instructor permission; and advancement to candidacy
This capstone course integrates the Core and Foundation Courses, with an emphasis on the Society for Human Resource Management (SHRM) Body of Applied Knowledge and Skills (BASK) to prepare students for SHRM Certification. After an integrative and comprehensive review, students will successfully complete a comprehensive exam. Note: HRM 6983 should be taken in the final term of the program. Materials fee required.

Health Science (HSCI)

Courses

HSCI 1000. Concepts in Health. Unit: 1

Standards and guidelines for coordinated school health programs and comprehensive health education, prevention, and wellness. The following health topics will be included: nutrition, physiological and sociological effects of alcohol, narcotics, drug abuse, and tobacco. Course content is formulated for those planning a career in K-8 education. Does not qualify as a Health Science elective, nor as a clear credential course for post-baccalaureate credential candidates. Formerly HSCI 100; students may not earn credit for both courses.

HSCI 1100. Problem Solving Skills for Health Science. Unit: 1

Course covers the problem solving and critical thinking skills necessary for all higher-level Health Science courses. Students will work through problems and case studies in epidemiology, statistics, nutrient and food composition, recipe conversion, body mass index, energy intake and expenditure, and others.

HSCI 1200. Health and Society: An Ecological and Societal Approach. Units: 3

Study of the fundamental concepts of living systems and their implications in the processes of health and illness in the human organism. Major health problems are analyzed in relationship to nature and the function of health in personal, environmental, and societal aspects. Students will incorporate individual, interpersonal, and broader social factors that affect our health from an inclusive and socially responsible perspective. Satisfies GE B2/5B.

HSCI 1200L. Health and Society: An Ecological and Societal Approach Lab. Unit: 1

Semester Prerequisite: HSCI 1200 or instructor consent
Laboratory component for HSCI 1200. Reinforces health topics covered in lecture and adds significant understanding to health concepts by having students perform personal health analyses, complete surveys, assess the environment using equipment for sound level, water quality, temperature and humidity, analyze epidemiological data, perform experiments to assess sexual and reproductive health, perform diet analysis of food consumed, analyze food labels and food for composition, assess stress level and its management, assess the impact of tobacco, drug, and alcohol on the body, and apply other lecture topics using case studies, scenarios, and health data. Students attain scientific knowledge working individually, in small groups and the entire laboratory class by explaining, analyzing, and interpreting health data and by class discussions. Satisfies GE B3/5C. Materials fee required.

HSCI 2018. Stress Management for Health. Unit: 1

Examines the history of stress-related research, sources of stress in modern society, the body's response to stress, recent advances in psychoneuroimmunology and nutrition therapies such as adaptogenic herbs. Also included is the exploration of a variety of stress control techniques applicable to both personal and professional settings. Formerly HSCI 218 and students may not earn credit for both.

HSCI 2200. Introduction to Public Health. Units: 3

The course provides an interdisciplinary overview of the Public Health field infrastructure and unique features and responsibilities of Public Health, the history and accomplishments of Public Health officials and agencies, various Public Health institutions, and an in-depth examination of the core Public Health disciplines. These include epidemiology of infectious and chronic diseases, environmental health, health promotion, global health (including health disparities), health policy, and health services management. Formerly HSCI 271; students may not earn credit for both courses.

HSCI 2202. Software Applications in the Health Sciences. Units: 3

The course offers an overview and application of a variety of software applications currently utilized in health science-related programs, including but not limited to assessment, planning, program implementation and management software; statistical packages; regional and national databases; and integrated applications. Materials fee required. Formerly HSCI 273; students may not earn credit for both courses.

HSCI 2203. Introduction to Statistics in Health Sciences. Units: 3

The course provides an overview of concepts and application of introductory statistics, including descriptive and inferential relevant to health sciences.

HSCI 2625. Nutrition and Dietetic Professional Career Pathways. Unit: 1

Overview of the dietetic profession and careers in nutrition and dietetics. Topics include professional history, ethics, organizations, scope of practice, interprofessional education, and exposure to career options for registered dietitians/nutritionists (RDN) and other nutrition and dietetic-related jobs. Formerly HSCI 225; students may not earn credit for both courses.

HSCI 2645. Cooking for Fun and Health. Units: 2

This 4-hour class session will provide a fun, hands-on experience to improve your knife skills, learn cooking techniques, explore equipment for home kitchen, and explore new flavors while making healthy, affordable meals and snacks (1 hour lecture and 3 hours lab). Materials fee required.

HSCI 3010. Health and Human Sexuality. Units: 3

Relationship between health and human sexuality, emphasizing education as a means of preventing diseases, disorders, and dysfunction. Formerly HSCI 310; students may not earn credit for both courses.

HSCI 3040. Introduction to Health Services Administration. Units: 3

Semester Prerequisite: HSCI 1200, HSCI 1200L
Fundamentals of health services administration with an exploration of the roles and functions in the delivery of health services. Topics may include staff scheduling, compliance, risk assessment, and various aspects of workflow processes that may influence health care practices.

HSCI 3051. Health and Human Ecology. Units: 3

Semester Prerequisite: Junior or senior standing
A survey of the impact of physical, social and biological environments on health-related issues such as poor housing, drug abuse, juvenile delinquency, radiation and pesticide exposure, food quality, noise, air and water resources and their relation to human settlements. Satisfies GE B5/UD-5, G designation. Students may not take both courses for credit.

HSCI 3052. Principles of Environmental Health. Units: 3

Quarter Prerequisite: College-level course in Biology
Introduction to the effects of the physical, chemical, and biological environments and their impacts on human health and well-being. Emphasis is placed on the principles of assessment, evaluation, and control of environmental risks related to public health. Formerly HSCI 352; students may not earn credit for both courses. Graded ABC/No Credit.

HSCI 3060. Medical Care Organizations. Units: 3

Semester Prerequisite: HSCI 1200, HSCI 1200L
Overview of healthcare systems such as health and medical care services, resources, facilities, interest groups, financial structures. Evaluation of how these systems and their interactions facilitate or raise barriers to health care access. Entitlements, including federal and state health insurance programs such as Medicare, Medicaid, and Med-Cal, are presented along with their organization, management, evaluation, quality, and historical evolution.

HSCI 3067. Human Diseases and Disorders. Units: 3

Overview of the structure and function of body systems along with prevention, management of risk factors, early detection, and treatment of representative diseases and disorders. Topics include healthy systems, development and progression of disease processes, diagnosis, and relevance to health professionals as well as individuals and families. Formerly HSCI 367; students may not earn credit for both courses.

HSCI 3080. Operations Management. Units: 3

Semester Prerequisite: HSCI 3040, HSCI 3060. Prerequisite: HSCI 360
Introduction to the concepts, principles, and practices of operations management within health care organizational settings. Topics may include the role of management in improving healthcare quality and outcomes, including clinical and organizational improvement, technology assessment, and quality improvement practices.

HSCI 3200. Foundations of Public Health Education. Units: 3

Semester Prerequisite: HSCI 2200. Quarter Prerequisite: HSCI 271
The course examines the profession of public health education in various settings and selected historical, cultural, philosophical, professional, and ethical issues in the practice of health education. Emphasis is placed on leadership, professionalism, career development, professional organizations, and interrelationships among physical, social, and cultural forces in the practice of health promotion and education. Formerly HSCI 301; students may not earn credit for both courses.

HSCI 3201. Health Behavior. Units: 3

Quarter Prerequisite: HSCI 301
The course covers the theoretical foundation for the development, analysis, and interpretation of individual and community influences on decisions that impact health status. Emphasis is placed on strategies for health behavior modification. Formerly HSCI 370; students may not earn credit for both courses.

HSCI 3202. Topics in Environmental and Occupational Health. Units: 3

This course emphasizes the applied content of public health aspects of environmental and occupational health. Sources, routes, media, and health outcomes associated with chemical, physical, and biological agents in the environment; effects on water quality, air quality, food safety, land resources, and disease in community and occupational settings. Includes methods to identify and evaluate hazard sources and framework used to effect hazard control. Public health issues, research designs, actors important to the development of monitoring programs, especially governmental regulatory bodies are discussed. Current federal legal framework, policies, and practices associated with environmental issues and intended to improve public health are primary focus of the course.

HSCI 3203. Global Health. Units: 3

The course explores the main principles of global health within the social, cultural, geographic, environmental, political, and economic contexts that determine population-level health and illness, including factors that account for variations in and patterns of health outcomes. Topics include health policies, programs, health systems, identifying and interpreting current data sources, diseases, and interventions. Satisfies G designation.

HSCI 3204. Public Health Nutrition. Units: 3

Quarter Prerequisite: HSCI 301
The course provides an overview of the role of policy, behavior, environment, and other societal factors that impact nutritional outcomes and by extension population health. Formerly HSCI 342; students may not earn credit for both courses.

HSCI 3205. Biostatistics for Health Science. Units: 3

Quarter Prerequisite: MATH 110
The course covers concepts and application of statistical methods related to public health and other health sciences. Focus is on applied biostatistics with emphasis on data collection, analysis, use, evidenced-based practice, and use of SPSS and other relevant software. Formerly HSCI 315; students may not earn credit for both courses.

HSCI 3206. Public Health Law and Ethics. Units: 3

The course examines the government's authority, at various jurisdictional levels, to improve the health of the general population within societal limits and norms. Discusses the ethical and legal implications of public health measures for preventive care.

HSCI 3207. Social Determinants of Health. Units: 3

The course examines the social environment and underlying disparities that lead to poor health outcomes across populations. The course will explore the various social determinants of health and the mechanisms through which they influence health disparities. Satisfies DI designation.

HSCI 3208. Introduction to Professional Development and Communication. Units: 3

The course offers practical experience in a variety of oral and written communication styles encountered by public health professionals, especially skills needed to communicate with lay audiences. The course also prepares students for their capstone experience. Satisfies WI designation.

HSCI 3291. Community Service Project. Unit: 1

Quarter Prerequisite: consent of department

Academically related tasks performed in community/government institutions. Completion of 45 hours for each unit earned. HSCI 3291 and 3292 may be repeated for a combined total of six units. May not be used as an upper division HSCI elective in the Nutrition Science and Dietetic Program. Requires a proposal to be submitted by the end of the preceding semester to a faculty advisor and Department consent required. Formerly HSCI 399A; students may earn credit for HSCI 399A, 399B, 3291, 3292 up to a total of 6 units. Graded credit/no credit.

HSCI 3292. Community Service Project. Units: 2

Academically related tasks performed in community/government institutions. Completion of 45 hours for each unit earned. Requires a proposal to be submitted by the end of the preceding semester to a faculty advisor. Department consent required. HSCI 3291 and HSCI 3292 may be repeated for a combined total of six units. May not be used as an upper division HSCI elective in the Nutritional Science and Dietetic Program. Graded credit/no credit. Formerly HSCI 399B; students may earn credit for HSCI 399A, 399B, 3291, 3292 up to a total of 6 units.

HSCI 3374. Basic Audiometry and Hearing Problems. Units: 3

Examination of the anatomy and physiology of the auditory mechanism. Nature of the acoustic stimulus, hearing disorders, problems of the hard of hearing, and pure-tone audiometry. Students earn a certificate of completion and are eligible to take the basic audiometry and hearing test granted by the California Department of Health Services upon successful completion. This course was formerly offered as HSCI 374; students may not earn credit for both.

HSCI 3522. Air Pollution and Radiological Health. Units: 3

Semester Prerequisite: College-level courses in biology, chemistry, and physics. Quarter Prerequisite: College-level courses in biology, chemistry, and physics

Principles of air quality management and effects of radiation on health. Topics include health implications of polluted air, applicable fundamentals of meteorology, air quality regulations, current concepts in air pollution control technology, and effects of radiation. Methods of identification, evaluation, and control of exposure to radiation and polluted air are emphasized. Formerly a combination of HSCI 322 and HSCI 324; students earning credit for HSCI 322 and 324 may not earn credit for HSCI 3522. Graded ABC/No Credit.

HSCI 3556. Housing, Institutions, and Land Use. Units: 3

Basic public health principles, regulations, and environmental quality considerations associated with residential and recreational housing, land use, and institutions such as health care, educational, and penal facilities. Relationship of housing quality to physical, socio-economic, and ethnic/cultural factors, and their influences on health. Understanding regulations of public and private housing land use such as measurement, zoning, subdivision mapping, coordinates, and development. Formerly HSCI 356; students may not earn credit for both.

HSCI 3558. Water Quality and Pollution Control. Units: 3

Semester Prerequisite: HSCI 3052 or consent of instructor. Quarter Prerequisite: HSCI 352 or consent of instructor

Topics include sources of water pollution, methods of control, water legislation, wastewater treatment, quality control criteria for safe drinking water, and impact of water quality on aquatic life, and public health. Formerly HSCI 358; students may not earn credit for both. Graded ABC/No Credit.

HSCI 3580. Principles of Toxicology. Units: 3

Semester Prerequisite: College-level biology and chemistry courses. Quarter Prerequisite: College-level biology and chemistry courses

Principles of chemical toxicity and relationship to public health, including intoxication, disease, dose-response measurement, mechanisms of action, and antidotal therapy. Discussion of various classes of chemical intoxicants and specific toxicological studies as related to various food, drug, consumer, industrial, and environmental problems. Formerly HSCI 380; students may not earn credit for both. Graded ABC/No Credit.

HSCI 3581. Occupational Safety. Units: 3

Principles of industrial safety, including general principles; accident control; industrial, mechanical, electrical, chemical, and flammability hazards; fire and explosion protection; accident investigation; industrial safety inspections; record keeping; safety training and emergency planning; and methods of industrial safety management as a unifying theme. Formerly HSCI 381; students may not earn credit for both. Graded ABC/no credit.

HSCI 3600. Nutrition for Health. Units: 3

The course will cover the science of human nutrition, functions of nutrients for healthy individuals, and application of nutrition concepts related to life stages needs from pregnancy to elderly with application to different cultural and environmental settings. The course is designed for Health Promotion and other allied health majors and may not be taken for credit by students in Nutritional Science and Dietetics (NSCD) majors.

HSCI 3601. Fundamentals of Human Nutrition. Units: 3

Semester Prerequisite: CHEM 2060 and CHEM 2060L, BIOL 2230 and 2240 or consent of instructor. Quarter Prerequisite: CHEM 207, or a one year GOB (General, Organic, Biochemistry) sequence, BIOL 223 and BIOL 224, or consent of instructor

Impact of chemical, physiological and metabolic processes of food and nutrients on health and disease prevention. Topics include the functions, regulations, and utilization of macronutrients, micronutrients, and water; energy balance; environment and sustainability; application of nutrition standards and recommendations on health and disease prevention using science and evidence-based principles. Formerly HSCI 350; students may not earn credit for both courses.

HSCI 3602. Lifecycle Nutrition and Assessment. Units: 3

Semester Prerequisite: HSCI 3601 or consent of the instructor. Quarter Prerequisite: HSCI 350

Semester Corequisite: HSCI 3607 and HSCI 3607L

Understanding of nutritional needs and assessment methods through the life cycle. Topics include relationships among environment, culture, food, and nutrition in a healthy body through different stages of life, disease prevention, and consideration for individuals with special needs. Formerly HSCI 365; students may not earn credit for both courses.

HSCI 3605. Cultural Practices and Cuisines. Units: 3

Study of global culture and food patterns including ingredients and cooking techniques, meal patterns, food customs and practices, cooking and food preparation methods, family and social structures, traditions, health beliefs, communication styles, and effects of geographical, climate, religion, economics, and historical events on practices of people around the world. Emphasis on understanding the people, culture, customs, food choices, culinary techniques, and practices on nutrition and health. Survey of social, economical, religious, and aesthetic aspects of food, culture, and customs. Formerly HSCI 385; students may not earn credit for both courses.

HSCI 3605L. Cultural Practices and Cuisines Lab. Unit: 1

Semester Corequisite: HSCI 3605

Preparation and tasting of dishes using recipes and cooking methods representative of cultural, ethnic, and religious practices around the world. Introduces basic cooking techniques to the nutrition and dietetic majors as well as provides exposure to food ingredients and cooking methods used by people around the world. Laboratory is only required for the Nutritional Science and Dietetic majors. Formerly a part of HSCI 385, students may not earn credit for both courses. Materials fee required.

HSCI 3607. Nutrition Counseling, Assessment, and Research Applications. Units: 3

Quarter Prerequisite: HSCI 315, HSCI 350 and HSCI 365 or consent of instructor

Nutrition assessment and counseling techniques as components of the Nutrition Care Process. Topics include health behavior theories, Nutrition Focused Physical Examination and Assessment, anthropometric, biochemical, dietary, and clinical assessments and interpretation of findings related to health and disease, and effective counseling techniques including motivational interviewing. Nutrition research methods and applications including quality management and improvement of nutrition services. Formerly HSCI 384 with taken with 3607L; students may not earn credit for both courses.

HSCI 3607L. Nutrition Counseling, Assessment, and Research Applications Lab. Unit: 1

Semester Prerequisite: HSCI 3601 or consent of instructor. Prerequisite: HSCI 350

Semester Corequisite: HSCI 3607 and 3602

Hands-on nutrition assessment and counseling techniques using Nutrition Care Process and science- and evidence-based methods. Practice nutrition counseling techniques, Nutrition Focused Physical Examination and Assessment, and equipment/tools used for assessment. Collection of data for a research project and preparation of manuscript for publication. Analysis and interpretation of data for quality management of nutrition service. Journal club presentation with critical evaluation of peer-reviewed articles. Formerly part of HSCI 384; students may not earn credit for both. Materials fee required.

HSCI 3615. Food Science and Production. Units: 3

Semester Prerequisite: CHEM 2050 and CHEM 2050L or consent of the instructor. Quarter Corequisite: 3615L. Quarter Prerequisite: CHEM 205 or equivalent

Understanding food production, processing, sustainability, scientific principles, and their applications in the use of food ingredients in developing food products, food preparation, and consumer acceptance. Formerly HSCI 245 and HSCI 345; students may not earn credit for both HSCI 3615 and HSCI 345.

HSCI 3615L. Food Science and Production Lab. Unit: 1

Semester Corequisite: HSCI 3615

The course covers experiments which apply food science principles in food preparation and product development for consumer acceptance. Includes a recipe modification project. Formerly part of HSCI 245 and HSCI 345; students may not earn credit for both HSCI 345 and HSCI 3615L. Materials fee required.

HSCI 3644. Global Nutrition. Units: 3

Presents major nutritional problems that influence the health, survival, and developmental capacity of populations in developing societies. Covers approaches implemented at the household, community, national, and international levels to improve nutritional status. Explores the degree to which malnutrition can be prevented or reduced prior to achieving full economic development through targeted public and private sector interventions that address the causes of malnutrition. Formerly HSCI 344; students may not earn credit for both courses.

HSCI 3671. Sustainable Food Systems. Units: 3

This course explores how our food systems, including production, transporting, processing, retailing, and consumption, can incorporate practices for sustainability that promotes human and planetary health. Topics include the environmental impacts across the food supply chain, agriculture, environmental and food policy, and the intersection of human health and nutrition with planetary health.

HSCI 3679. Experiential Learning in Food Systems. Units: 3

Experiential Learning in Food Systems I is an immersive and hands-on undergraduate course that offers students a unique opportunity to engage with food systems at the intersection of theory and practice. Through a combination of fieldwork, hands-on projects, and reflective learning, students will gain a deep understanding of the various components of food systems, from production to consumption, while actively participating in sustainable food initiatives. May be taken two time for six units. Graded CR/NC.

HSCI 3810. Sport and Exercise Nutrition. Units: 3

Discusses nutritional requirements for active people and athletes. Topics include nutritional requirements for exercise, nutrient timing, macronutrients, micronutrients, and popular sports nutrition supplements. Formerly offered as KINE 382 and HSCI 382; students may not earn credit for both courses. It is recommended to take BIOL 2240 prior to this course.

HSCI 4023. Health and Wellness of Older Adults. Units: 3

This course takes an ecologic approach to the health, wellness, and changing needs of older adults, addressing intersections of the physical (age-related physiological changes, acute and chronic disease), mental (emotional, psychological), social, spiritual, sexual, intellectual, financial (managed care, case management, and funding sources for routine care as well as hospitalization, post-acute, and long-term care), and other dimensions. Lifespan and health care ethics, as well as end-of-life issues are also addressed. Formerly HSCI 423; students may not earn credit for both courses.

HSCI 4036. Human Resource Management in Health Care. Units: 3

Semester Prerequisite: HSCI 3040 and HSCI 3060. Quarter Prerequisite: HSCI 360

Principles of effective human resource management in health care settings. Topics include state and federal regulations for the workplace, recruitment, retention, training, compensation, and benefits. Formerly HSCI 436; students may not earn credit for both courses.

HSCI 4037. Information Systems & Financial Management in Health Care. Units: 3

Semester Prerequisite: HSCI 3040, HSCI 3060. Quarter Prerequisite: HSCI 360

This course addresses HIPAA-mandated and other considerations for hardware, software, information system, and financial management needs of various health care organizations. Topics include staffing, patient scheduling, electronic medical records, accounting and reimbursement processes, budgeting, and related aspects of information technology and security in an ever-changing environment. Formerly offered as HSCI 437; students may not earn credit for both courses.

HSCI 4050. Health Issues of Men. Units: 3

Exploration of men's health issues from an ecologic perspective, e.g., physical, mental, social, intellectual, financial, spiritual, sexual, and other related dimensions. Emphasis is on balance as well as intersections of biological sex, gender concerns, racial considerations, and other diverse factors; personal responsibility for maintaining and promoting health; self-care and access to appropriate healthcare. Formerly HSCI 405; students may not earn credit for both.

HSCI 4052. Special Topics in Health Services Administration. Units: 3

Quarter Prerequisite: consent of instructor

Examination of current topics in health services administration. May be repeated for a maximum of 6 units as topics change. Priority registration will be given to students in the Health Science and Human Ecology department. Formerly HSCI 452; students may not earn credit for both courses.

HSCI 4055. Health Policy, Law, and Ethics. Units: 3

Semester Prerequisite: HSCI 3040 and HSCI 3060. Quarter Prerequisite: HSCI 360

Provides a general overview of the law with specific emphasis on health care issues such as laws relating to employer-employee relations, patient treatment, and medical record. Examines the role of the legislature in the formulation of health care policy at the federal and state levels and how politics in healthcare influences policy formulation. Compares health care policy and policy formulation in the US to that of other countries. Explores the ethical considerations in health care business and clinical decision-making. Examines the principles of health care governance and associated functions such as accreditation and professional associations' oversight. Formerly HSCI 455. Students may not earn credit for both courses.

HSCI 4060. Strategic Planning and Marketing in the Health Care System. Units: 3

Semester Prerequisite: HSCI 3040 and 3060. Quarter Prerequisite: HSCI 360

This course includes the basic methodologies and approaches applied in strategic planning and healthcare marketing. It entails strategic management planning processes with regard to economic and political forces to shape the healthcare marketplace. This course analyzes basic principles of marketing to be applied in the healthcare field. These include consumer diversity, distinguishing between corporate and patient perspectives, and changing the healthcare delivery model to suit the needs arising at a given time. This course also looks into effective tactics to be applied in a strategic formulation and implementation in the healthcare sector. Additionally, it explores the connection between strategic planning and mission statements together with their role in engaging all the stakeholders in the strategic planning process. Formerly HSCI 460; students may not earn credit for both courses.

HSCI 4068. Research Methodology in Health Science. Units: 3

Semester Prerequisite: HSCI 3040, HSCI 3060, HSCI 3205. Quarter Prerequisite: HSCI 315, Math 262 or Math 305, or consent of the instructor

Entry-level research methods that focus on the formulation of a research question, model, review of the literature, documentation of research results and the application of the research methods skills to contemporary health problems. Students will develop their skills in the use of appropriate analytical techniques such as descriptive statistics and inferential statistics in the assessment of population parameters and hypotheses testing. This course will also help students develop their skills in the use of computer-based statistical software packages and their application in health data analysis. Formerly HSCI 468; students may not earn credit for both courses. Satisfies WI designation.

HSCI 4080. Leadership in Health Services Administration. Units: 3

Semester Prerequisite: HSCI 3040 and HSCI 3060. Quarter Prerequisite: HSCI 360

Introduction to management theory and practice as they apply to the management of healthcare organizations. Emphasis is placed on the principal responsibilities of healthcare managers in relation to planning, analysis, organizing, staffing, directing, and evaluation functions. Strategy, structure, and budgetary functions are discussed as they relate to health service administration. Formerly offered as HSCI 480; students may not earn credit for both courses.

HSCI 4089. Preparation for HSA Internship. Unit: 1

Semester Prerequisite: All lower-division coursework and upper-division coursework for the major must be completed with a grade of C (2.0) or higher

This course prepares health services administration students for a hands-on field experience through class assignments, portfolio preparation, and field placement. Faculty academic advisor consent required. Formerly offered as HSCI 4093, students may not earn credit for both courses.

HSCI 4095. Field Experience in Health Services Administration. Units: 3

Semester Prerequisite: HSCI 4089

Structured, practical, culminating field experience of a minimum of 120 hours, to be completed in one semester in an approved public health agency, community-based organization, tribal health site, or health care related setting. In addition to field hours, students will meet with the field supervisor as scheduled in syllabus and be required to submit a final report on their field work. Course should be taken during the final semester of the student's senior year; it must be preceded by HSCI 4089, Field Experience Preparation. Graded credit/no credit. Formerly HSCI 493 & 495; students may not earn credit for HSCI 493/495 and 4095.

HSCI 4200. Health Administration. Units: 3

The course addresses the fundamental characteristics and organizational structures of the U.S. health system as well as the differences in systems of other countries. The course also emphasizes the economic aspects of public health decision making.

HSCI 4202. Epidemiology. Units: 3

The course provides an introduction to methods and application of epidemiologic procedures to the understanding of the occurrence and control of diseases and other health problems. Emphasis is given to descriptive epidemiology, data interpretation, trend analyses, and introductory epidemiologic study design. Formerly HSCI 451; students may not earn credit for both courses.

HSCI 4203. Public Health Program Planning and Implementation. Units: 3

The course focuses on theoretical foundations and application of program planning and implementation, including logic model, PRECEED-PROCEED model, and other relevant practices in public health. Emphasis is placed on needs assessment, stakeholder evaluation, and budgeting. Formerly offered as HSCI 471; students may not earn credit for both courses.

HSCI 4204. Research Methods and Evaluation in Public Health. Units: 3

The course focuses on the critical understanding of both the theoretical and practical aspects of evaluation research relevant to public health. Emphasis is placed on key concepts and approaches to evaluation, including experimental studies, qualitative approaches, and cost-benefit analysis. The course also engages with the context of evaluation, including political influences, as well as ethical issues, practical issues, knowledge exchange and the dissemination of evaluation findings. Semester Prerequisite: HSCI 4202, HSCI 4203.

HSCI 4205. Advanced Professional Writing in Public Health. Units: 3

Semester Prerequisite: HSCI 3201 and HSCI 3208

The course offers practical experience in a variety of writing styles encountered by public health professionals, especially grant writing. The focus is on communication with public health professionals and scientific writing. Satisfies WI designation.

HSCI 4206. Infectious Disease Burden in U.S.. Units: 3

The course provides an in-depth analysis of the major and lesser-known causative agents of infectious disease, including hospital-acquired infections, emerging infectious diseases, and sexually transmitted infections. Emphasis is placed on current trends in the U.S. related to such infections. The primary focus of the course is on empirical evidence and implications for evidence-based practice.

HSCI 4207. Chronic Disease Burden in U.S.. Units: 3

The course provides an in depth analysis and prevention strategies of the major chronic diseases in the U.S. by prevalence and population including obesity, cardiovascular diseases, hypertension, diabetes, cancer. Evaluates experimental and analytical techniques commonly used in chronic disease prevention.

HSCI 4208. Drug and Alcohol Issues. Units: 3

The course will include the analysis of factors influencing human use or abuse of drugs, alcohol, and other substances; and their effects on the health and well being of the individual, family and society. Formerly offered as HSCI 364; students may not earn credit for both courses.

HSCI 4209. Complementary and Alternative Medicine. Units: 3

The course offers an introduction to complementary and alternative medicine (CAM) practices relevant to public health issues. Discussion of current public health policies and programs related to such practices and analyses of current evidence of efficacy of CAM. Satisfies DI designation.

HSCI 4210. Cultural Competency. Units: 3

The course explores the approaches to cultural competency in public health and their relationship to addressing health disparities. The course will highlight interventions and programs that work with various marginalized groups. Satisfies Diversity and Inclusiveness Perspectives designation.

HSCI 4211. Mental Health Issues in Public Health. Units: 3

The course provides an introduction to mental and behavioral health issues in public health. Discussion of current public health policies and programs focused on prevention and treatment of mental health issues.

HSCI 4212. Topics about Special Populations. Units: 3

Examination of programs, policies, and services that affect the health of special populations across the lifespan. Emphasis on social, political, economic, environmental, personal, and behavioral factors associated with the health of special populations.

HSCI 4214. Latinx Health. Units: 3

Examination of programs, policies, and services that affect Latinx health across the lifespan. Emphasis on social, political, economic, environmental, personal, and behavioral factors associated with Latinx health. The goal of the course is to provide students with an understanding of the main public health issues impacting Latinx in the United States.

HSCI 4501. Advanced Environmental Health. Units: 4

Semester Prerequisite: HSCI 3052 or consent of instructor
An integrated view of the environmental factors that contribute to illness, injury, or death of individuals and populations. Lecture topics include epidemiology, demographics and statistics on health status, determinants of health and illness, behavioral aspects of health, and preventive care. Environmental health laws and regulations as well as compliance with current regulations are emphasized. The laboratory emphasizes methods of measuring and evaluating environmental health risks as well as field experience. Lab topics include: environments within buildings, food sanitation, water sanitation and control, solid and hazardous waste and control, air pollution and control, and community noise and control. Three hours lecture and three hours laboratory. Satisfies WI designation. Materials fee required. Graded ABC/no credit.

HSCI 4502. Principles of Occupational Health. Units: 4

Semester Prerequisite: HSCI 3052 and college-level coursework in chemistry or consent of instructor. Quarter Prerequisite: HSCI 352 and college-level coursework in biology and chemistry or consent of instructor Principles of occupational health risks including anticipation, recognition, evaluation, and control. Influence of workplace risks on human health and their relationship to occupational medicine. Study of occupational health laws and regulations as well as methods of compliance with current regulations. Laboratory and field experience topics include: toxic and hazardous chemicals, airborne chemicals, materials of biological origin, noise, and electromagnetic radiation. Three hours lecture and three hours of laboratory. Formerly HSCI 402; students may not earn credit for both courses. Materials fee required. Graded ABC/no credit.

HSCI 4503. Vector-borne Disease Control. Units: 4

Semester Prerequisite: HSCI 3052 and college-level coursework in chemistry or consent of instructor. Quarter Prerequisite: HSCI 352 and college-level coursework in chemistry or consent of instructor Identification and control of insect and other vectors of diseases. Discussion of major topics in vector ecology including natural and chemical control methods and their impacts on health and environmental quality. Three hours lecture and three hours laboratory. Formerly HSCI 403; student may not earn credit for both. Materials fee required. Graded ABC/no credit.

HSCI 4550. Health Aspects of Death and Dying. Units: 3

Semester Prerequisite: Completion of at least 60 units is required Investigation into how the realities of death and loss influence the quality of a person's life and personal health status. The focus is on assisting students and professionals to develop the skills necessary to assist individuals deal with death, loss, grief, bereavement, and mourning in the healthiest ways possible. Formerly offered as HSCI 550; students may not earn credit for both courses.

HSCI 4552. Special Topics: International Perspectives on Stress Management. Units: 3

This course examines the history of stress-related research and applications through international perspectives. Topics include physical, psychological, emotional, and behavioral effects of stress; recent advances in psychoneuroimmunology; sources of stress across various cultures; and global approaches to stress management. This course requires participation in the study abroad program; in addition to online academic preparation, the course involves an experiential component achieved through international travel. Principles are incorporated into students' time abroad to design practical stress management programs.

HSCI 4577. Environmental Health Engineering. Units: 3

Semester Prerequisite: HSCI 3052 or consent of instructor. Quarter Prerequisite: HSCI 352
Methods used in designing systems which mitigate environmental contamination of air, soil, and water. Topics include stream re-aeration, kinetics of biological degradation, soil mechanics, adsorption and other principles related to environmental media protection and renovation. Formerly HSCI 477; students may not earn credit for both. Graded ABC/no credit.

HSCI 4578. Environmental Health Management. Units: 3

Semester Prerequisite: College-level coursework in biology and chemistry. Quarter Prerequisite: College-level coursework in biology and chemistry

Methods of management for promoting optimum environmental health, emphasizing land use planning, environmental impact reporting, facility planning, and risk assessment. Formerly HSCI 458. Students may not earn credit for both. Graded ABC/no credit.

HSCI 4621. Foodservice Principles and Practice. Units: 3

Semester Prerequisite: HSCI 3615, 3615L, and 3602 or consent of the instructor. Quarter Prerequisite: HSCI 345 and 350, or consent of instructor

Semester Corequisite: HSCI 4621L

Principles related to various types of quantity foodservice production systems. Production topics include sustainability, design layout and surfaces, equipment operation and maintenance, staffing needs, flow of production and efficiency, sanitation and safety, and recipe modification. Principles related to procurement include specifications for selection, purchasing, storage of quantity foods and equipment. Formerly HSCI 465; students may not earn credit for both courses.

HSCI 4621L. Foodservice Principles and Practice Lab. Unit: 1

Semester Corequisite: HSCI 4621

Rotations through different types of foodservice systems and observation/performance of foodservice production functions. Tasks may include receiving, storage, preparation, operation and maintenance of foodservice equipments, team efforts, HACCP and sanitation, scheduling, and overall operation of foodservice system. Formerly part of HSCI 465; students may not earn credit for both courses.

HSCI 4622. Foodservice Management. Units: 3

Semester Prerequisite: HSCI 4621 and 4621L. Quarter Prerequisite: HSCI 465

Management principles related to foodservice facilities and systems. Topics include budget and finances, human resources, equipment, menus, federal and state regulations and mandates, leadership and management skills, labor relations, marketing, satisfaction assessment and accountability. Formerly HSCI 467; students may not earn credit for both courses.

HSCI 4625. Dietetic Pathways and Processes. Unit: 1

Quarter Prerequisite: HSCI 225 and senior standing in the Nutrition and Food Science program

Explores different types of supervised-practice programs. Students review and start the online centralized dietetic application system (DICAS) process which includes updating resumes, writing a personal statement, and a mock interview. Understanding issues of professionalism, exploration of dietetic career pathways and volunteer opportunities to further enhance professional goals. Formerly HSCI 446; students may not earn credit for both courses.

HSCI 4661. Human Metabolism and Nutritional Biochemistry. Units: 3

Semester Prerequisite: HSCI 3602 and 3607. Quarter Prerequisite: HSCI 365 and 384

Integration and exploration of macro- and micro-nutrients in biochemical, physiological, and metabolic functions. Strong emphases on integration of metabolic and physiological effects on cellular to whole body functions and effects on the systems by different physiological states and disease processes. Formerly HSCI 441; students may not earn credit for both courses.

HSCI 4662. Advanced Nutrition and Topics. Units: 3

Semester Prerequisite: HSCI 4661

Integration of human metabolism with exploration of specific topics related to macro- and micro-nutrients and health and disease. Topics include nutrigenomics, effectiveness of alternative therapies and supplements, digestive health, and other relevant topics in nutrition and dietetics. Satisfies WI designation.

HSCI 4675. Sustainable Food Systems Seminar. Unit: 1

This course aims to enculturate students into a community of faculty and professionals with expertise in sustainable food systems. Journal club style format with skills-based discussions about reading, thinking, and communicating as a scientist, and presentations by faculty, community professionals, and students.

HSCI 4680. Public Health Nutrition in Dietetics. Units: 3

Semester Prerequisite: HSCI 3602, HSCI 3607, and HSCI 3607L. Quarter Prerequisite: HSCI 273, 442, and 443

Public Health Nutrition for dietitians and nutritionists working in communities. Topics include disease prevention, epidemiology, public policy and advocacy, screening and assessment, grant writing, health care delivery systems, nutrition education principles, health promotion, program planning and assessment, federal, state, and local nutrition programs, and other relevant information. Formerly HSCI 445; students may not earn credit for both courses.

HSCI 4681. Medical Nutrition Therapy I. Units: 3

Semester Prerequisite: HSCI 3602, 3607, and 3607L. Quarter Prerequisite: HSCI 441, HSCI 365, and HSCI 384

Semester Corequisite: HSCI 4661

Introduction to skills and knowledge necessary for nutrition and dietary interventions in disease states using the principles of medical nutrition therapy and the Nutrition Care Process. Includes pathophysiology of disease processes, nutrition assessment, diagnosis, intervention, monitoring, and evaluation to recover from disease conditions and/or to improve the quality of life. Introduction to coding and billing of nutrition and dietetics services to obtain reimbursement for services provided. Introduction to the Academy of Nutrition and Dietetics' Evidence Analysis Library. Formerly HSCI 443; students may not earn credit for both courses.

HSCI 4681L. Medical Nutrition Therapy I Lab. Unit: 1

Semester Prerequisite: HSCI 3602, 3607, and 3607L
Semester Corequisite: HSCI 4681
Hands on activities with students for exploration and discussion of clinical case studies and tools used to assess and to provide medical nutrition therapy to patients with different diseases and conditions. Includes nutrition assessment and counseling experience on or off campus.

HSCI 4682. Medical Nutrition Therapy II. Units: 3

Semester Prerequisite: HSCI 4681 and 4681L. Quarter Corequisite: HSCI 4682L. Quarter Prerequisite: HSCI 443
Continuation of HSCI 4681, Medical Nutrition Therapy I. Further development of skills and knowledge for nutrition and dietary interventions in different disease states and conditions not covered in the previous course. Includes pathophysiology of disease processes, nutrition assessment, diagnosis, intervention, monitoring, and evaluation to recover from disease conditions and/or to improve the quality of life. Formerly HSCI 444, students may not earn credit for both courses.

HSCI 4682L. Medical Nutrition Therapy II Lab. Unit: 1

Semester Corequisite: HSCI 4682
Hands on activity with students for exploration and discussion of case studies and tools used to assess patients in relation to different disease conditions. Includes nutrition assessment and counseling experience on and off campus. Formerly a part of HSCI 444; students may not earn credit for both courses.

HSCI 4690. Senior Capstone. Units: 2

Capstone course for senior nutrition students. The course will serve as a culminating experience/ practice for the registration exam to become a Registered Dietitian Nutritionist (RDN) and program assessment. Students will review course material from the last two years of the Didactic Program in Dietetic (DPD) courses, integrate knowledge and skills learned, take the practice exams, engage with case studies, and pass the summative assessment with a score of 80% or higher. Strategies for taking online exam will also be discussed. Students will be allowed to take the summative exam until they pass with 80%. Must be a graduating senior in the Nutritional Science and Dietetics major. Satisfies WI designation. One hour lecture and 3 hours lab. Department consent required.

HSCI 4999. Preparation for Public Health Capstone. Unit: 1

The course examines the profession of public health in various settings and career options in the field of public health. Emphasis is placed on leadership, professionalism, and capstone course preparation.

HSCI 5010. Hospital Administration. Units: 3

Semester Prerequisite: HSCI 3040 and HSCI 3060, or HSCI 2200 and MGMT 3020 or PSYC 3020. Quarter Prerequisite: HSCI 360, or HSCI 271 and MGMT/PSYC 302
Organization and administration of hospital facilities including planning and evaluation of services. Role of the hospital as part of the community. Formerly offered as HSCI 510; students may not earn credit for both courses.

HSCI 5013. Managed Care Systems. Units: 3

Semester Prerequisite: HSCI 3040 and 3060, or consent of the instructor. Quarter Prerequisite: HSCI 360
In this course, students gain advanced knowledge on healthcare reimbursement mechanisms. A key ingredient to this course is students' exposure to post-acute care, ethics in business and clinical decision-making and quality assessment for patient care improvement. In post-acute care, students learn about the examination of hospitalization from a service point of view. This is done by looking into the nursing facilities, nursing homes, inpatient rehabilitation facilities, and long term hospital care. In business and clinical decision-making, students understand the exploration and analysis of contemporary health care from an ethical perspective. In quality assessment for patient care improvement, students understand the various assessment tools and how to evaluate the accuracy and reliability of the assessment tools. Formerly offered as HSCI 513; students may not earn credit for both courses.

HSCI 5213. Community Service Project in Public Health. Units: 3

Semester Prerequisite: HSCI 3201, HSCI 3208 and HSCI 4999
Academically related tasks in such agencies as governmental, social service, and educational institutions. Instructor consent required. May be taken two times for six units. Students may earn up to a total of 6 units from HSCI 3291, 3292, and 5213. Graded Credit/No Credit.

HSCI 5240. School Health Programs and Practices. Units: 3

Advanced examination of the roles of K through 12 teachers within a coordinated school health program. Students will be able to understand and communicate principles of effective school health programs and policies that can promote student health and increase academic achievement. State and national guidelines for mandated school health education programs and required health education curriculum are reviewed and discussed. Formerly HSCI 540; students may not earn credit for both.

HSCI 5530. Food-Borne Illnesses and Their Prevention. Units: 3

Semester Prerequisite: HSCI 3052 or consent of instructor. Quarter Prerequisite: HSCI 352 or consent of instructor
Microbial, chemical, and other factors of food-borne illnesses, food poisoning, and their prevention. Discussion of food safety and proper environmental control measures for environmental health conditions involved in purchase, preparation, storage, transportation, and service of foods to minimize health dangers. Formerly HSCI 530; students may not earn credit for both. Graded ABC/no credit.

HSCI 5531. Bioterrorism and Emergency Response. Units: 3

A general overview of the history, identification, properties, and mode of transmission of agents of terrorist acts: agro-, bio-, chemical-, and nuclear terrorism with the main focus on bioterrorism, including its prevention, control, and counter measures. Discussion of emergency preparedness and response, including incident command and resource allocation in the event of incidence of bioterrorism. Graded ABC/No Credit. Formerly offered HSCI 531; students may not receive credit for both courses.

HSCI 5557. Solid and Hazardous Waste Management. Units: 3

Semester Prerequisite: BIOL 2010 or BIOL 2230, and CHEM 2100. Quarter Prerequisite: BIOL 200 or BIOL 223, and CHEM 215
Major methods for the control of solid and hazardous wastes from generation, transportation through disposal, including health impacts, environmental, and legal aspects of solid and hazardous wastes as well as discussion of various disposal techniques. Formerly a combination of HSCI 354 and HSCI 357; students earning credit for HSCI 354 and 357 may not earn credit for HSCI 5557. Graded ABC/No Credit.

HSCI 5558. Management of Water Quality. Units: 3

Semester Prerequisite: HSCI 3558 or consent of instructor. Quarter Prerequisite: HSCI 358 or consent of instructor
Survey of water quality parameters and pollution control techniques. Includes in-depth discussion of current topics in water legislation, water pollution and its impact on public health, flood impacts, water conservation options, and drought management. Formerly HSCI 558; students may not earn credit for both. Graded ABC/no credit.

HSCI 5651. Food is Medicine: Nutrition in Complementary and Alternative Medicine. Units: 3

Semester Prerequisite: Graduate standing
An overview of complementary and alternative medicine (CAM) models and perspectives on food and nutrition. This course introduces the core concepts and methodologies in CAM with an emphasis on nutrient and diet related therapies and modalities including herbals, megavitamins, and Ayurvedic diet and medicine. Emphasis on integrating these modalities with allopathic health models. Formerly known as HSCI 6651. Department consent required.

HSCI 5661. Advance Topics in Sports Nutrition. Units: 3

Semester Prerequisite: HSCI 3601 and senior or a graduate student
This course covers advanced topics related to nutrition, metabolism, sports performance, and health. Nutrient needs, metabolic functions of nutrients, and food sources will be discussed as well as ergogenic aids and dietary supplements. The functions of nutrients and food and scientific literature as it relates to sports nutrition is emphasized. Departmental consent required.

HSCI 5753. Internship in Health Services Administration. Units: 3

Semester Prerequisite: HSCI 3201, HSCI 3208 and HSCI 4999
Structured, practical, culminating internship of a minimum of 120 hours, to be completed in one semester in an approved healthcare-related setting, including a public health agency, community-based organization, or tribal health site. In addition to field hours, students will meet with the field supervisor as scheduled in syllabus and be required to submit a final report on their field work. Course should be taken during the final semester of the student's senior year; it must be preceded by HSCI 4089, Field Experience Preparation. 2 units supervision, 1 unit lecture. Formerly offered as HSCI 4095, students may not earn credit for both. Graded credit/no credit.

HSCI 5754. Internship in Environmental Health. Units: 4

Individual studies in environmental health under supervision of a preceptor at a rotation site. Students will be placed with public agencies to gain 180 hours of applied and/or research experience as an environmental health specialist. To be taken during the final semester of the program with consent of the instructor. Formerly HSCI 496; students may not earn credit for both. Graded credit/no credit.

HSCI 5758. Internship in Public Health. Units: 3

A combined seminar and supervision course that includes an internship and integrated professional support. Students will complete a minimum of 120 hours of structured, practical field experience under the direct supervision of a preceptor at an approved site. The experience may be completed in public health offices, community health centers, clinical sites, nonprofit health agencies, worksite health promotion programs, or health care organizations. In addition, class will meet for a total of 15 hours during the term to provide support for the internship. Letter of approval signed by site preceptor and faculty advisor needs to be filed with department office prior to beginning the internship. 1 unit lecture, 2 units supervision. Graded Credit/no Credit.

HSCI 5759. Internship in Environmental Health. Units: 4

Individual studies in environmental health under supervision of a preceptor at a rotation site. Students will be placed with public agencies to gain 180 hours of applied and/or research experience as an environmental health specialist. To be taken during the final semester of the program with consent of the instructor. 1 unit lecture, 3 units supervision. Graded credit/no credit. Department consent required.

HSCI 5951. Independent Study. Unit: 1

Semester Prerequisite: Completion of 90 units, a minimum overall grade point average of 3
Independent study under the supervision of a faculty member. The project must be related to a specific question relevant to the field of study. A final written report must be submitted and approved by the supervising faculty member. Formal presentation may be required. Formerly HSCI 595A. HSCI 5951-5953 may be repeated for a total of 6 units. Department consent required. Graded ABC/No Credit.

HSCI 5951PH. Independent Study for Public Health. Unit: 1

Independent study of classic and contemporary public health issues in a defined area combined with scheduled individual and small group conferences with supervising faculty member. Departmental consent required. HSCI 5951PH-5953PH may be repeated for a total of 6 units. Graded ABC/No Credit.

HSCI 5952. Independent Study. Units: 2

Semester Prerequisite: Completion of 90 units, a minimum overall grade point average of 3
Independent study under the supervision of a faculty member. The project must be related to a specific question relevant to the field of study. A final written report must be submitted and approved by the supervising faculty member. Formal presentation may be required. Formerly HSCI 595B. HSCI 5951-5953 may be repeated for a total of 6 units. Department consent required. Graded ABC/No Credit.

HSCI 5952PH. Independent Study for Public Health. Units: 2

Independent study of classic and contemporary public health issues in a defined area combined with scheduled individual and small group conferences with supervising faculty member. Departmental consent required. HSCI 5951PH-5953PH may be repeated for a total of 6 units. Graded ABC/No Credit.

HSCI 5953. Independent Study. Units: 3

Quarter Prerequisite: A minimum overall grade point average of "B" Independent study under the supervision of a faculty member. The project must be related to a specific question relevant to the field of study. A final written report must be submitted and approved by the supervising faculty member. Formal presentation may be required. Formerly HSCI 595C. HSCI 5951-5953 may be repeated for a total of 6 units. Department consent required. Graded ABC/No Credit.

HSCI 5953PH. Independent Study for Public Health. Units: 3

Independent study of classic and contemporary public health issues in a defined area combined with scheduled individual and small group conferences with supervising faculty member. Departmental consent required. HSCI 5951PH-5953PH may be repeated for a total of 6 units. Graded ABC/No Credit.

HSCI 5970. Honors Thesis for Public Health. Units: 4

Semester Prerequisite: HSCI 3201, HSCI 3208 and HSCI 4999 Honors thesis conducted under the supervision of two public health faculty. The project must include independent research focused on a relevant public health research question. Students must have a major GPA of 3.5 and an overall GPA of 3.0. Formal presentation may be required. May be taken two times for eight units; a total of 4 units may be applied to the upper division requirements for the BS in Public Health. Graded Credit/No Credit.

HSCI 6010. Administration of Health Care Programs. Units: 4

Economic forces which impact on health and health delivery systems and an assessment of the distribution of financial resources required to sustain these systems. Emphasis on trends in financing health care and the economic influence of reimbursement policies on financial decision-makers. Departmental consent required.

HSCI 6020. Management, Organization and Planning. Units: 4

Organizational, environmental, socio/political, and behavioral aspects of health and health delivery systems. Ecological perspectives related to management and planning of health programs, including strategies to facilitate communication, decision-making, and problem solving and planning and administrative approaches in developing, modifying and sustaining modern health systems. Departmental consent required.

HSCI 6030. Health Economics and Financial Systems. Units: 4

Micro- and macroeconomic aspects of health services, various payment approaches, third-party reimbursement systems, budgeting and financial analysis, decision-making and planning in health services and organizations. Department consent required.

HSCI 6100. Communication and Human Relations in Health Services. Units: 4

Techniques for effective written and oral communication at the interpersonal and organizational levels. Particular emphasis is placed upon enhancing human relations skills in health services settings. Department consent required.

HSCI 6101. Introduction to the US Health Care System. Units: 3

Overview of US healthcare systems such as health and medical care services, resources, facilities, interest groups, and financial structures. Evaluation of how these systems and their interactions facilitate or raise barriers to health care access. Entitlements, including federal and state health insurance programs such as Medicare, Medicaid, and Med-Cal, are presented along with their organization, management, evaluation, quality, and historical evolution. Department consent required.

HSCI 6103. Communication and Human Relations in Health Services. Units: 3

This course covers the principles and practices of effective communication between healthcare professionals, providers, and patients. Emphasis is placed on cultural competency and sensitivity, while examining interpersonal dynamics and organizational factors that impact patient satisfaction and healthcare outcomes. Department consent required. Formerly offered as HSCI 6100, students may not receive credit for both.

HSCI 6123. Management, Organization and Planning. Units: 3

Organizational, environmental, socio/political, and behavioral aspects of health and health delivery systems. Ecological perspectives related to management and planning of health programs, including strategies to facilitate communication, decision-making, and problem solving and planning and administrative approaches in developing, modifying and sustaining modern health systems. Departmental consent required. Formerly offered as HSCI 6020, students may not receive credit for both.

HSCI 6133. Health Economics and Financial Systems. Units: 3

Micro- and macroeconomic aspects of health services, various payment approaches, third-party reimbursement systems, budgeting and financial analysis, and decision-making and planning in health services and organizations. Department consent required. Formerly offered as HSCI 6030, students may not receive credit for both.

HSCI 6140. Information and Technology Systems Management in Health Services. Units: 4

Information systems, networks, and computer software systems, used in health services setting.

HSCI 6143. Information and Technology Systems Management in Health Services. Units: 3

Information systems, networks, and computer software systems used in health service settings. Formerly offered as HSCI 6140, students may not receive credit for both. Department consent required.

HSCI 6150. Health Law and Medical Ethics. Units: 4

Legal and ethical issues and practices related to health care delivery and health services administration. Ethical administrative behavior, standard of care, tort law and professional liability, negligence and liability law, contracts, lawsuits and civil liability process, corporate law and liability, antitrust, case law and related health law issues are covered. Department consent required.

HSCI 6153. Health Law and Medical Ethics. Units: 3

This course covers the legal and ethical issues related to the delivery and administration of the U.S. healthcare system. Topics may include: ethical administrative behavior, standard of care, tort law, negligence, lawsuits and civil liability process, corporate law, antitrust, and other health-related law issues. Department consent required. Formerly offered as HSCI 6150, students may not receive credit for both.

HSCI 6160. Strategic Planning and Evaluation. Units: 4

Community analysis including generating goals and objectives to implement effective community interventions. Logic models and program evaluation methodologies will be utilized to set parameters and to assure delivery of appropriate health services programs and outcomes. Organizational strategy evaluation, formulation, tactics, and development. Department consent required.

HSCI 6163. Strategic Planning and Evaluation. Units: 3

Community analysis including generating goals and objectives to implement effective community interventions. Logic models and program evaluation methodologies will be utilized to set parameters and to assure delivery of appropriate health services programs and outcomes. Organizational strategy evaluation, formulation, tactics, and development. Formerly offered as HSCI 6160, students may not receive credit for both. Department consent required.

HSCI 6170. Health Services Administration Leadership, Team and Quality Development. Units: 4

Leadership skill development, including interface within public, private, and non-profit health organizations. Collaborative partnerships, issues of diversity in leadership, negotiation, conflict resolution, continuous quality improvement process and management, and attributes of leaders and leadership. Health administration team behaviors, actions, and approaches along with team development are analyzed. Department consent required.

HSCI 6173. Health Services Administration Leadership, Team, and Quality Development. Units: 3

Development of leadership skills, including interface within public, private, and non-profit health organizations. Collaborative partnerships, issues of diversity in leadership, negotiation, conflict resolution, continuous quality improvement process and management, and attributes of leaders and leadership. Health administration team behaviors, actions, and approaches along with team development are analyzed. Formerly offered as HSCI 6170, students may not receive credit for both. Department consent required.

HSCI 6180. Health Services Administration Capstone Seminar. Units: 4

Integration and application of leadership theory and administrative skills and approaches as applied to the organizational and team management process and management of health services organizations. Departmental consent required.

HSCI 6183. Health Services Administration Capstone Seminar. Units: 3

Integration and application of leadership theory, administrative skills, and management approaches in team coordination and organizational processes within health services organizations. Formerly offered as HSCI 6180, students may not receive credit for both. Department consent required.

HSCI 6190. Graduate Research Methodology in Health Science. Units: 4

Graduate-level research methods and application to contemporary health problems in health services administration. Health data analysis and development of skills for determining appropriate analytical techniques and procedures. Department consent required.

HSCI 6193. Graduate Research Methodology in Health Services Administration. Units: 3

Graduate-level research methods and application to contemporary health problems in health services administration. Health data analysis and development of skills for determining appropriate analytical techniques and procedures. Departmental consent required. Formerly offered as HSCI 6190, students may not receive credit for both.

HSCI 6200. Professional Development and Leadership in Public Health. Units: 4

The course introduces the promotion of professional development skills, leadership abilities and critical thinking skills that are needed for addressing complex public health issues. Emphasis is placed on philosophical foundations of health, historical and professional perspectives relevant to public health and the implementation of a professional portfolio. Students also conduct competency matching to program goals and accreditation standards. Departmental consent required.

HSCI 6210. Advanced Biostatistics for Public Health. Units: 4

Concepts and application of advanced statistical methods related to public health: logistics, regression, survival analysis, and big data using SPSS and other relevant public health software. Departmental consent required. Formerly offered as HSCI 612, students cannot receive credit for both courses.

HSCI 6220. Advanced Topics in Epidemiology. Units: 4

Advanced application of epidemiologic procedures related to the understanding of the occurrence and control of diseases and other health problems. Emphasis is given to survey development, study design, data quality, validity and reliability of epidemiological data, service learning in form of epidemiological intervention, and journal club-style critical evaluation of literature. Departmental consent required. Formerly offered as HSCI 617, students cannot receive credit for both courses.

HSCI 6230. Advanced Topics in Environmental and Occupational Health. Units: 3

Sources, routes, media, and health outcomes associated with chemical, physical, and biological agents in the environment; effects on water quality, air quality, food safety, land resources, and disease in community and occupational settings. Includes methods to identify and evaluate hazard sources and framework used to effect hazard control. Public health issues, research designs, factors important to the development of monitoring programs. Current federal legal framework, policies, and practices associated with environmental issues and intended to improve public health. Departmental consent required. Formerly offered as HSCI 616, students cannot receive credit for both courses.

HSCI 6240. Advanced Study in Health Promotion. Units: 4

Psychological, social, ecological, economic and political theories relevant to the mission and process of health promotion. Applying behavioral change techniques and health education methodology to health promotion targeting individuals and whole communities. Consent required. Formerly offered HSCI 613. Students may not receive credit for both courses.

HSCI 6250. Advanced Topics in Public Health Policy and Administration. Units: 4

The course emphasis the principles, practices, and skills essential to successful public health system with focus on the U.S. health care system, role of governmental agencies, and factors that shape public health system. The major focus of the course remains on the key aspects of policy development, critical analysis of policy development, with culminating product of a policy brief and/or white paper relevant to the professional field. Departmental consent required. Formerly offered as HSCI 611, students cannot receive credit for both courses.

HSCI 6260. Health Education Program Planning and Evaluation. Units: 4

Comprehensive analyses and application of theories and methods for planning, implementation, and evaluation of health promotion programs. Techniques for collecting and analyzing quantitative and qualitative data to establish evaluation plan is also covered. Consent required. Formerly offered HSCI 615. Students may not receive credit for both courses.

HSCI 6270. Advanced Research Methods in Public Health. Units: 4

Quarter Prerequisite: Consent of applicable MPH program coordinator
Advanced tools in research methods relevant to public health. Types of research, process of scientific inquiry and critical analysis of research are covered with emphasis on national criteria for research evaluation, journal club, and systematic reviews. Departmental consent required. Formerly offered HSCI 608. Students cannot receive credit for both.

HSCI 6280. Grant Writing for Health Sciences. Units: 4

Provides an overview of the principles and practice of grantsmanship from a public health and healthcare management perspective. Assists students to develop proficiency in the processes, factors, and required elements of a successful grant, including identifying granting bodies, formulating objectives, appropriate research questions, evaluation methods, budgeting, and sustainability plans. This course fulfills the culminating experience requirement for the MPH program. Consent required. Formerly offered HSCI 609. Students may not receive credit for both courses.

HSCI 6290. Bioterrorism. Units: 4

Semester Prerequisite: College level biology or consent of instructor.
Quarter Prerequisite: College level biology and chemistry or consent of instructor
History, identification, properties, and modes of transmission of agents of bioterrorism, including preventive, control, and treatment countermeasures. Risk assessment in the evaluation of relative threat level from different agents and delivery modes. Formerly offered HSCI 513. Students may not receive credit for both courses.

HSCI 6300. Global Health. Units: 4

Quarter Prerequisite: Consent of instructor
Roles of cultures and their relationships to health status, health practices, and health-seeking behaviors. Focus on global perspective in disease prevention and health promotion, such as One Health. Departmental consent required. Formerly HSCI 607; students may not earn credit for both courses.

HSCI 6310. Health Education Practice. Units: 4

Quarter Prerequisite: Consent of instructor
The course discusses effective public health interventions using the socio-ecologic framework as a foundation to explore various levels of intervention. Concepts of program planning, implementing, and evaluating public health programs in the context of cultural competency. Emphasis is placed on applying theory in diagnosing the nature of health and social problems, interpreting empirical research results, and planning health education and promotion interventions to improve public health and creating a culminating product demonstrating health education practice. Formerly offered as HSCI 614. Students cannot receive credit for both.

HSCI 6320. Advanced Topics in Epidemiological Methodology. Units: 4

Semester Prerequisite: HSCI 6210 and 6220 OR consent of instructor.
Quarter Prerequisite: HSCI 451 and 690
This course focuses on advanced topics in epidemiology with emphasis placed on clinical trials and quasi experiments. Students evaluate the efficacy of each in relation to various public health settings and the various types of epidemiological applications, including: healthcare, social, pharmaceutical, and especially molecular epidemiology. Departmental consent required. Formerly offered as HSCI 620, students cannot receive credit for both.

HSCI 6330. Advanced Topics in Health Science and Human Ecology. Units: 4

Analysis of current literature, practices, procedures and issues in health science and human ecology at local, state, national and international levels in the form of journal club and a final culminating product. Formerly offered as HSCI 660D, students cannot receive credit for both courses.

HSCI 6340. Information Literacy in Public Health. Units: 4

This course discusses the importance of how information is shaped and disseminated in the public health field, especially the role of funding and political unrest on information sharing. Departmental consent required.

HSCI 6350. Infectious Disease Burden in US. Units: 4

Semester Prerequisite: Graduate standing
This course evaluates trends in infectious diseases, especially HIV and AIDS in the United States. Examination of various aspects of the policy response and preventative care regulations as well as how U.S. policy is shaped in terms of both domestic and global responses to the pandemic. Departmental consent required.

HSCI 6360. Qualitative Methods in Public Health. Units: 4

Semester Prerequisite: Graduate standing
Application of qualitative methods in the development of health promotion interventions, evaluations, and research. Collecting and analyzing qualitative data through participant observation, interviewing, group methods, and case studies. Departmental consent required.

HSCI 6370. Survey Design in Public Health. Units: 4

Semester Prerequisite: Graduate standing
This course teaches students how to frame questions in health promotion surveys using sound principles of questionnaire design with emphasis on reliability and validity. Students learn survey design principles and methods and how to analyze survey data.

HSCI 6380. Maternal Child Health. Units: 4

Semester Prerequisite: Graduate standing
Public health issues affecting the health and well-being of women, children, and families. A multidisciplinary perspective that integrates biological, demographic, epidemiological, economic, behavioral, social, cultural and environmental aspects. Consent required.

HSCI 6390. Advanced Professional Development and Leadership in Public Health. Units: 2

Advanced principles of effective leadership, communication, negotiation, collaborative problem solving, and conflict management in public health. The course requires a graduate portfolio and demonstration of public health practice experience. Departmental consent required.

HSCI 6400. Health Science Data Science. Units: 4

Semester Prerequisite: Graduate standing
Discussion on current use of data, especially big data in public health. Course evaluates the current trends in data science, data visualizations, and means to assess data efficacy for evidence-based practice. Departmental consent required.

HSCI 6410. Project Preparation. Unit: 1

This course prepares students for their project, the culminating experience for the MPH program. Tasks include proposal development and approval in addition to committee establishment. Program Director approval required.

HSCI 6601. Macronutrient Biochemistry. Units: 3

Advanced general nutritional concepts. Integrating nutritional biochemistry with physiological systems, population nutrition issues, and research approaches. Advanced concepts on carbohydrates, lipids, and protein metabolism. Department consent required.

HSCI 6602. Micronutrient Biochemistry. Units: 3

Advanced concepts on vitamins, cofactors, bioactive compounds, and mineral metabolic functions and nutritional interactions among and with micronutrients. Department consent required.

HSCI 6603. Research Methods and Biostatistics in Nutrition Science. Units: 3

Advanced tools in research methods relevant to Nutrition Science. Types of research, process of scientific inquiry and critical analysis of research are covered with emphasis on appropriate statistical methods, journal club, and systematic reviews. Department consent required.

HSCI 6610. Principles of Human Nutrition. Units: 4

Quarter Prerequisite: Classified graduate standing and prior or concurrent enrollment in HSCI 661 or consent of instructor
Application of the principles of physiology and metabolism to the study of nutrition emphasizing nutrient functions, nutrient requirements and impact of diet on health and disease, including both macronutrients and micronutrients. Metabolic pathways and the functions of nutrients will be discussed. Formerly offered as HSCI 661, students may not receive credit for both courses.

HSCI 6653. Nutrition Assessment. Units: 3

Assessment of nutritional status of both individuals and populations for purposes of etiologic research and disease prevention and management. Application of biochemical, anthropometric, clinical and dietary assessments for prevention of disease and malnutrition, and promotion of wellness and health. Emphasis on understanding and use of methods appropriate for measurement of nutritional risks in epidemiological or population studies. Department consent required. Formerly offered as HSCI 667, students may not earn credit for both.

HSCI 6654. Advanced Topics in Nutrition Across the Life Span. Units: 3

Semester Prerequisite: Graduate standing
Significance and role of nutrition during pregnancy, lactation, infancy, childhood, adulthood, and among the elderly. The course will include in-depth discussion of the chronic- and genetic-disease conditions across the life span that impact nutrition status and ways to prevent malnutrition and development of chronic diseases. Department consent required. Formerly offered as HSCI 561, students may not earn credit for both.

HSCI 6656. Advanced Public Health Nutrition. Units: 3

Major nutrition-related diseases and their prevention, including effects of public policy on health status. The course will cover the role of public health dietitian/nutritionist in disease prevention using research-based data and implementation plans. Knowledge and skills in grant writing, funding opportunities, program evaluation, and assessment. Department consent required. Formerly offered as HSCI 663, students may not earn credit for both.

HSCI 6657. Management of Nutrition and Dietetic Services. Units: 3

An in-depth knowledge of different types of food systems and food service management. Include development of the skills necessary to guide practice in the management and leadership of food and nutrition service operations. Department consent required.

HSCI 6658. Advanced Topics in Medical Nutrition Therapy. Units: 3

Discussion of advance medical nutrition therapy of several major chronic diseases, especially cardiovascular disease, cancer, and relevant nutrition topics of the time. Focuses on understanding evidence-based interventions using the Academy of Nutrition and Dietetics' Evidence Analysis Library, science-based, and reputable sources for treatment of these diseases and the role of health professionals in management and treatment of nutrition related diseases. Includes use of Nutrition Care Process and data collection for monitoring and evaluation of treatment outcome. Department consent required. Formerly offered as HSCI 664, students may not earn credit for both.

HSCI 6659. Topics in Global Nutrition. Units: 3

Semester Prerequisite: Graduate standing

Identification and discussion of malnutrition incidences in developing and industrialized countries. Focuses on the multi-factorial causes of malnutrition around the world, including food production, distribution, geographical, political, and economic policies on nutrition status of the individuals and population. Identification and discussion of resources and policies for optimal public health nutrition and to alleviate malnutrition. Department consent required. Formerly offered as HSCI 562, students may not earn credit for both.

HSCI 6660. Nutrition in Health & Disease. Units: 3

Integration of biochemical, physiological, and genetic aspects of nutrition in the context of clinical and epidemiological observations related to health and disease, such as obesity, diabetes, cancer, vascular and neurodegenerative diseases, osteoporosis, and birth defects. Review and consideration of governmental role in public health nutrition via guidelines and policies. Department consent required.

HSCI 6690. Nutrition Graduate Seminar. Unit: 1

Advanced topics in nutrition research. Emphasis will be on presenting research papers, proposals, and findings, and engaging in intellectual discussions about nutrition research. May be taken 2 times for 2 units. Department consent required.

HSCI 6753A. Advance Internship in Dietetics - Part I. Units: 3.5

Semester Prerequisite: Interns must be accepted into Dietetic Internship Program at CSUSB and department consent required

A guided, structured, practical, educational supervised-practice experience in sites that may include facilities such as hospitals, county public health, foodservice, long term care, school nutrition centers, dialysis clinics, private practice, etc., under the direct supervision of a preceptor at the site and guidance from the dietetic internship director. Interns must also meet with dietetic internship director for a one week orientation and scheduled weekly didactic component of the course. An agreement between the site and CSUSB must be completed prior to starting the internship sites that last more than one week. Department consent and acceptance into the dietetic internship are required. 2 units supervision, 0.5 unit lab. Graded Credit/No Credit.

HSCI 6753B. Advance Internship in Dietetics - Part II. Units: 3.5

A guided, structured, practical, educational supervised-practice experience in sites that may include facilities such as hospitals, county public health, foodservice, long term care, school nutrition centers, dialysis clinics, private practice, etc., under the direct supervision of a preceptor at the site and guidance from the dietetic internship director. Interns must also meet with dietetic internship director for a one week orientation and scheduled weekly didactic component of the course. An agreement between the site and CSUSB must be completed prior to starting the internship sites that last more than one week. Department consent and acceptance into the dietetic internship are required. 2 units supervision, 0.5 unit lab. Graded Credit/No Credit.

HSCI 6754. Administrative Residency. Units: 3

Supervised internship of 135 hours in sites such as hospitals, health plans, HMOs, medical groups, managed care organizations, private or public health services or agencies. Requires a rotation in administrative organization and function. Requires formal written report and presentation. Graded AB/no credit. Departmental consent required.

HSCI 6954. Internship. Units: 4

A minimum of 45 hours for each unit of credit will be spent in a guided, structured, practical, educational experience in sites that may include public health offices, community health centers, clinical sites, nonprofit health agencies, worksite health promotion programs, or health care organizations, under the direct supervision of a preceptor at the site and guidance of the department. Letter of approval signed by site preceptor and program director to be filed in department office prior to beginning the field experience. Students must complete 180 hours to meet field experience requirement. Department consent required. Graded Credit/No Credit.

HSCI 6960. Project. Units: 4

Quarter Prerequisite: completion of HSCI 608, HSCI 612, and at least 24 units of approved coursework; an officially appointed project committee; and advancement to candidacy

Completion of a major project that integrates and applies public health knowledge and skills to a problem or issue related to public health practice or policy, resulting in a high-quality written product and an oral presentation (either on campus or at a professional meeting). The project may emerge from or be initiated during HSCI 6954: Field Experience. May be taken two times for eight units.

HSCI 6963. Graduate Project. Units: 3

Preparation and completion of a project. The project consists of an applied research project where the graduate student will produce a deliverable product and submit it with the project report similar to the theses. The students will complete a formal professional presentation on or off campus. May be taken 3 times for 9 units under the project committee chair. Department consent required. Graded AB/No Credit.

HSCI 6971. Thesis. Unit: 1

Semester Prerequisite: Consent of Department

Research, Writing and Defense. Independent graduate research conducted under the guidance of an advisor in the Department of Health Science and Human Ecology. Departmental consent required. Formerly offered as HSCI 699, students cannot receive credit for both.

HSCI 6972. Thesis. Units: 2

Semester Prerequisite: Consent of advisor
Research, Writing and Defense. Independent graduate research conducted under the guidance of an advisor in the Department of Health Science and Human Ecology. Consent required.

HSCI 6973. Graduate Thesis. Units: 3

Research, writing, and defense of graduate thesis. Independent graduate research conducted under the guidance of an advisor in the Department of Health Science and Human Ecology. May be taken 2 times for 6 units. Department consent required.

HSCI 6974. Thesis. Units: 4

Quarter Prerequisite: successful completion of HSCI 699A
Research, Writing and Defense. Independent graduate research conducted under the guidance of an advisor in the Department of Health Science and Human Ecology. Consent required. Formerly offered as 699D.

HSCI 6980. Comprehensive Examination. Units: 0

Semester Prerequisite: advancement to candidacy, completion of a minimum of 16 units, approval of department, and good academic standing. Quarter Prerequisite: advancement to candidacy, completion of a minimum of 16 units, approval of department, and good academic standing
Assessment of student's ability to integrate the knowledge of the discipline, show critical and independent thinking, and demonstrate mastery of the subject matter. Department consent required. Formally HSCI 999. Graded credit/no credit.

HSCI 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

HSCI 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

HSCI 6992. Continuous Enrollment for Graduate Candidacy Standing. Units: 2

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

HSCI 6993. Continuous Enrollment for Graduate Candidacy Standing. Units: 3

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

HSCI 6994. Continuous Enrollment for Graduate Candidacy Standing. Units: 4

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

HSCI 6995. Continuous Enrollment for Graduate Candidacy Standing. Units: 5

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

HSCI 6996. Continuous Enrollment for Graduate Candidacy Standing. Units: 6

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

Interdisciplinary Studies (IS)

Courses

IS 6961. Graduate Project. Unit: 1

Quarter Prerequisite: advancement to candidacy

Preparation of the project for the M.A. under the direction of a faculty member from the students committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of six units applicable toward the M.A. Formerly offered as IS 696A.

IS 6962. Graduate Project. Units: 2

Quarter Prerequisite: advancement to candidacy

Preparation of the project for the M.A. under the direction of a faculty member from the students committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of six units applicable toward the M.A. Formerly offer as IS 696B.

IS 6963. Graduate Project. Units: 3

Quarter Prerequisite: advancement to candidacy

Preparation of the project for the M.A. under the direction of a faculty member from the students committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of six units applicable toward the M.A. Formerly known as IS 696C.

IS 6964. Graduate Project. Units: 4

Quarter Prerequisite: advancement to candidacy

Preparation of the project for the M.A. under the direction of a faculty member from the students committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of six units applicable toward the M.A. Formerly known as IS 696D.

IS 6965. Graduate Project. Units: 5

Quarter Prerequisite: advancement to candidacy

Preparation of the project for the M.A. under the direction of a faculty member from the students committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of six units applicable toward the M.A. Formerly known as IS 696E.

IS 6966. Graduate Project. Units: 6

Quarter Prerequisite: advancement to candidacy

Preparation of the project for the M.A. under the direction of a faculty member from the students committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of six units applicable toward the M.A. Formerly IS 696F.

IS 6971. Graduate Thesis. Unit: 1

Quarter Prerequisite: advancement to candidacy

Preparation of the thesis for the Master of Arts under the direction of a faculty member from the students committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of six units applicable toward the Master of Arts. Formerly known as IS 669A.

IS 6972. Graduate Thesis. Units: 2

Quarter Prerequisite: advancement to candidacy

Preparation of the thesis for the Master of Arts under the direction of a faculty member from the students committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of six units applicable toward the Master of Arts. Formerly known as IS 699B.

IS 6973. Graduate Thesis. Units: 3

Quarter Prerequisite: advancement to candidacy

Preparation of the thesis for the Master of Arts under the direction of a faculty member from the students committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of six units applicable toward the Master of Arts. Formerly known as IS 699C.

IS 6974. Graduate Thesis. Units: 4

Quarter Prerequisite: advancement to candidacy

Preparation of the thesis for the Master of Arts under the direction of a faculty member from the students committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of six units applicable toward the Master of Arts. Formerly known as IS 699D.

IS 6975. Graduate Thesis. Units: 5

Quarter Prerequisite: advancement to candidacy

Preparation of the thesis for the Master of Arts under the direction of a faculty member from the students committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of six units applicable toward the Master of Arts. Formerly known as IS 699E.

IS 6976. Graduate Thesis. Units: 6

Quarter Prerequisite: advancement to candidacy

Preparation of the thesis for the Master of Arts under the direction of a faculty member from the students committee and if an interdisciplinary studies major, with approval of the Dean of Graduate Studies. Maximum of six credits applicable toward the Master of Arts. Formerly known as IS 699F.

IS 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

IS 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

IS 6992. Continuous Enrollment for Graduate Candidacy Standing. Units: 2

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

IS 6993. Continuous Enrollment for Graduate Candidacy Standing. Units: 3

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

IS 6994. Continuous Enrollment for Graduate Candidacy Standing. Units: 4

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

IS 6995. Continuous Enrollment for Graduate Candidacy Standing. Units: 5

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

IS 6996. Continuous Enrollment for Graduate Candidacy Standing. Units: 6

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

Information Systems and Tech (IST)

Courses

IST 1110. Introduction to Information Technology. Unit: 1

This course introduces students to foundational information technology concepts and skills, including the integration of generative AI diverse applications across business operations. Topics include hardware and software fundamentals, their use in organizations, generative AI and prompt engineering. The course also covers becoming better global digital citizens, developing a digital mindset, online safety, and the ethical issues arising from the use of computers and AI in business and society. Hands-on lab sessions on popular software applications, prompt engineering, and enterprise resource planning systems. Materials fee required.

IST 2110. Information Technology. Units: 3

Basic computer hardware, software, maintenance and training technologies including hardware components, operating system functions, information systems maintenance strategies for the organization, and end-user training options. Security practices such as network access, data disposal, introductory forensics and facilities planning are also explored. Hands-on experience with different computer hardware, operating systems and software utilities. Formerly offered as IST 372. Materials fee required.

IST 2210. Introduction to Networking and Security. Units: 3

Semester Prerequisite: IST 1110

This course covers the fundamentals of computer networks for business students. Topics include: layered network architecture, communication protocols, local and wide area networks, hardware basics, network security, traffic monitoring, packet level analysis and operating system command line. Students will learn much of this through hands-on experience using popular packet analyzer tools and simulators.

IST 2310. Applications Development. Units: 3

Semester Prerequisite: IST 1110 or consent of instructor. Quarter Prerequisite: IST 101 or consent of instructor

This course introduces object-oriented techniques for business application design and development. The objective of this course is to make students understand application development concepts including data type, strings, control statements, loops, functions, lists, tuples, classes & objects and basic algorithms. This course highlights the problem-solving aspects of developing business applications. Formerly offered as IST 282.

IST 2410. Database Management for Business. Units: 3

Semester Prerequisite: IST 1110. Quarter Prerequisite: IST 101

This course covers the fundamental concepts and technologies of database systems for business applications. Students will learn database concepts and skills including: data modeling (ER and relational model), normalization, Structured Query Language (SQL), transaction management, data base system administration issues, security, and implementation techniques using a popular database management systems software package. Formerly offered as IST 274.

IST 2510. Big Data Analytics. Units: 3

Semester Prerequisite: IST 2310, ADMN 2100 or consent of instructor
An overview of the wide area of business analytics, including the extensive use of data, methods, and fact-based management to support and improve decision making. Students are introduced to the most important methods used to manipulate, store, clean, visualize, and analyze big data. Topics include: The analytics life cycle, basic tools for statistical analysis, programming, machine learning algorithms and report generation for technical and non-technical audiences.

IST 2610. Cybersecurity. Units: 3

Semester Prerequisite: IST 1110 or consent of instructor. Quarter Prerequisite: IST 101 or consent of instructor
Study in information assurance and systems security for information systems professionals. This course covers several key domains of knowledge essential to becoming a cybersecurity professional. The topics include (but are not limited to): threats, attacks and vulnerabilities; technologies and tools; architecture and design; identity and access management; risk management/cryptography and PKI. This course will include hands-on, applied technical labs. Formerly offered as IST 215.

IST 3000. Technology for Business Management. Units: 3

This course prepares future managers to effectively utilize technology in business decision-making, emphasizing real-world applications across business functions and strategic goals. Students will explore how information systems enhance business operations and support strategic goals. The course covers the application of technology tools across various business functions such as management, operations, communication, and strategic planning. Students will also examine the impact of technological advancements on modern business practices and their integration into diverse business processes. By the end of the course, students will be adept at leveraging technology to drive operational efficiency and strategic success.

IST 3100. Data Visualization and Analytics. Units: 3

This course provides a comprehensive introduction to the principles and practices of data visualization and analytics. Students will learn how to effectively communicate data-driven insights through the use of visual techniques and tools, as well as how to perform in-depth data analyses. The course covers key topics including data collection, preprocessing, and cleaning; exploratory data analysis; and the creation of static and interactive visualizations. This course will focuse on real-world applications for communicating insights and analyzing data.

IST 3110. Management of Information Technology. Units: 3

Semester Prerequisite: IST 1110. Quarter Prerequisite: IST 101
This course focuses on how best practice organizations use information technology to gain competitive advantage and accomplish mission. The course exposes students to numerous examples of IT applications in finance, accounting, marketing, public administration, human resource, entrepreneurship, and supply chain operations. Topics include: enterprise information systems; ethics of IT use; cybersecurity, IT laws and risk management, cloud computing, data warehousing and business intelligence, social media, customer/supplier relationship management systems, IT project management, and impact of contemporary IT technologies such as AI and blockchain technologies. Formerly offered as IST 309. Materials fee required.

IST 3420. Systems Analysis and Design. Units: 3

Semester Prerequisite: IST 3110 or consent of instructor. Quarter Prerequisite: IST 101 or consent of instructor
This course introduces students to the principles and methods of systems analysis and design. Topics include: systems development life cycle, prototyping, planning and managing projects, systems evaluation, interface design with controls, and object-oriented design concepts and tools. The course exposes students to UML (Unified Modeling Language) and other graphical modeling tools to model information systems based on user requirements and specification. Formerly offered as IST 276.

IST 3500. Problem Solving and Decision Making. Units: 3

Semester Prerequisite: ADMN 2100 and IST 3110
This course covers many approaches in solving business problems from a managerial point of view. Students experiment with typical techniques and learn why/how these techniques work. Spreadsheets are used to experiment with such techniques. Emphasis is placed on input requirements and interpretation of results. Topics include: what-if analysis, networks, decision trees, sensitivity analysis, and goal seeking. Formerly offered as SCM 350. Also offered as IST 3500 and SCM 3500; credit cannot be awarded for both.

IST 4120. Information Systems Planning and Policy. Units: 3

Semester Prerequisite: IST 2210, IST 2610 and IST 3110
Advanced study of information systems planning and policy formation for top management. Covers strategic use of information technology in organizations; the theory, methods and practices of enterprise systems planning; and design and implementation of information systems policy. Policy issues surrounding project management, information classification, IT audit, and legal issues related to privacy and security will also be covered. Formerly offered as IST 490.

IST 4210. Advanced Networking and Security. Units: 3

Semester Prerequisite: IST 2210 Quarter Corequisite: IST 309. Quarter Prerequisite: IST 275 and IST 309; or consent of instructor
Advanced computer networks and their application in organizations. Students are introduced to the technology of routed and switched networks, wireless networks and network security. Through hands-on experience and using popular packet analyzer tools and simulators, students learn how to design, configure, administer, secure and debug heterogeneous IP networks. Topics include: routing protocols, configuring routers and switches, VLANs, network management techniques, routing IP traffic, wireless networks, network security, access control list. Formerly offered as IST 475.

IST 4310. Web Technologies. Units: 3

Semester Prerequisite: IST 2310 & IST 3110, or consent of instructor. Quarter Prerequisite: IST 282
This course is designed to give students exposure to and experience with several modern web development principles and technologies used on the Internet today. Topics include XML, web protocols, client-side & server-side technologies, back-end data management, and web service. If time permits, topics in semantic web may be included.

IST 4320. Advanced Applications Development. Units: 3

Semester Prerequisite: IST 2310 or consent of instructor. Quarter Prerequisite: IST 282 or consent of instructor
Advanced applications development in an object-oriented environment. Advanced object-oriented concepts are applied to design and implement various applications for business information systems. Focuses on developing complex applications that address a business problem or opportunity. Formerly offered as IST 483.

IST 4410. Advanced Database Management and Information Assurance. Units: 3

Semester Prerequisite: IST 2410 or consent of instructor. Quarter Prerequisite: IST 274 and IST 309, or consent of instructor
Advanced computer data base concepts and skills including: data modeling, advanced Structured Query Language (SQL), client-server application, database security, and emerging database technologies. Also covers Database System Administration issues: data certification/ classification, life cycle, access control and legal requirements. Students will create applications using an advanced database program package. Formerly offered as IST 474.

IST 4510. Advanced Data Analytics. Units: 3

Semester Prerequisite: IST 2510 and 3110, or consent of instructor
Topics include: univariate and multivariate statistical methods to analyze data, relational databases and SQL, predictive analytics, descriptive analytics, linear regression, text processing and sentiment analysis, data visualization and other emerging data analytics methods.

IST 4520. Data Mining. Units: 3

Semester Prerequisite: IST 2510 & IST 3110
This course introduces students to concepts, principles and techniques related to data mining and the knowledge discovery process. Students will learn methods to manipulate and explore data through learning the basic ideas of clustering, regression and classification. The course will provide hands-on experience with a variety of different techniques and applications (e.g., intrusion detection, text mining, customer segmentation). Topics include: data processing, pattern discovery, logistic regression, classification methods, association analysis and cluster analysis.

IST 4610. Cybersecurity Management. Units: 3

Semester Prerequisite: IST 2610 & 3110, or consent of instructor. Quarter Prerequisite: IST 215 or consent of instructor
This course covers the technical and managerial knowledge required to effectively design, engineer, and manage the overall security posture of an organization. Topics include: Security and risk management, asset security, communication and network security, identity and access management, security assessment and testing, security operations, software development security. Formerly offered as IST 415.

IST 4620. Penetration Testing and Ethical Hacking. Units: 3

Semester Prerequisite: IST 2210, IST 2610, and IST 3110. Quarter Prerequisite: IST 215 and IST 275
This course covers the process and methods for assessing the security posture of information systems. It reviews in depth the phases of penetration testing to include but not limited to: planning, reconnaissance, scanning, exploiting, post-exploitation and reporting. Tools techniques and procedures for each of the phases will be discussed, demonstrated and used in lab exercises. Formerly offered as IST 511.

IST 4910. Enterprise System Administration. Units: 3

Semester Prerequisite: IST 4210 or consent of instructor. Quarter Prerequisite: IST 475 or consent of instructor
This course is a capstone course that will integrate the various topics as it relates to the administration of an information system. This course may include but is not limited to: installing, managing and maintaining network based operating systems, installing and configuring network services, user and group account management, automating network tasks with scripts, managing a database, modifying a system for improved performance and security, and securing the system in preparation for a penetration test. Because of the dynamic nature of information systems and the rapid development that takes place continually, this course will cover topics that are timely as determined by current conditions and future trends.

IST 5030. Enterprise Resource Planning. Units: 3

Semester Prerequisite: SCM 3040 or SCM 6070. Quarter Prerequisite: SCM 304 or consent of instructor
This course introduces students to the concept and usage of Enterprise Resource Planning (ERP) to support organizational processes. It emphasizes how businesses are using ERP systems to integrate their business processes. Students will learn and understand business process data flows, and how that impacts the functional areas of an organization. Students will have hands-on experience using an ERP system. Formerly known as SCM 305/IST 3050/SCM 3050. Course is offered as IST 5030 and SCM 5030; credit cannot be awarded for both.

IST 5050. Advanced Enterprise Resource Planning. Units: 3

Semester Prerequisite: SCM/IST 3050
This course will discuss the concepts, principles, and techniques for configuring and implementing organizational processes in enterprise resource planning (ERP). Emphasis will be placed on the cross-functional business processes and critical integration points that are necessary for the success of a company. Students will learn how to create relevant databases and configure an ERP system from the ground up. Formerly SCM 505. Also offered as IST 5050.

IST 5150. Project Management. Units: 3

Semester Prerequisite: IST 3110
This course introduces students to project management theory, terms and concepts. Students will learn about project management constraints and their impact on a project's ability to meet business goals: time, cost, and performance. Students will learn techniques to manage people and how the workforce will impact, and be impacted by, the project management constraints. Topics include: project life cycle, how to build a successful project from pre-implementation to completion, sequencing and budgeting, project evaluation and control, project feasibility, risk analysis, resource allocation and project management tools. Formerly offered as SCM 515. Course is offered as IST 5150 and SCM 5150; credit cannot be awarded for both.

IST 5250. Incident Handling and Cyber Investigation. Units: 3

Semester Prerequisite: IST 2610. Quarter Prerequisite: IST 215 or consent of instructor

A systematic inspection of systems for evidence of a crime and use in civil litigation. Identify sources of digital evidence, preserve and analyze digital evidence, present findings (deposition of legal evidence in a court of law), and learn tools forensics experts use. The topics may include terrorism, identify theft, fraud, hacking, societal issues and embezzlement. Students will learn best practices with hands-on experience in identifying and preserving digital evidence. Formerly offered as IST 525.

IST 5753. Apprenticeship. Units: 3

Supervised work and study in private or public organizations in a department of labor registered apprenticeship. May be taken two times for six units. A total of six units of IST/SCM 5753 courses may be applied toward graduation. Graded credit/no credit.

IST 5755. Internship. Unit: 1

Semester Prerequisite: Consent of college internship coordinator. Quarter Prerequisite: senior standing preferred; consent of instructor and the departments internship coordinator

Supervised work and study in private or public organizations. May be repeated for credit. A total of six units of Jack H. Brown College of Business and Public Administration 5753 or 5755 courses may be applied toward graduation. Graded credit/no credit.

IST 5915. Seminar in Information Systems and Technology. Unit: 1

Semester Prerequisite: Consent of instructor. Prerequisite: Consent of instructor

An intensive study of some aspect of information systems and technology to be proposed by the instructor. May be repeated for credit as topics change.

IST 5930. Seminar in Information Systems and Technology. Units: 3

Semester Prerequisite: IST 3110 or instructor consent

An intensive study of some aspect of information systems and technology to be proposed by the instructor. May be repeated for credit as topics change. Consent required. Formerly offered as IST 590.

IST 5951. Independent Study. Unit: 1

Semester Prerequisite: Junior status, or graduate status

Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Course is cross-listed across different departments within the college.

IST 5952. Independent Study. Units: 2

Semester Prerequisite: Junior status, or graduate status

Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Formerly offered as 595B. Course is cross-listed across different departments within the college.

IST 5953. Independent Study. Units: 3

Semester Prerequisite: Junior status, or graduate status

Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Formerly offered as 595D. Course is cross-listed across different departments within the college.

IST 5955. Independent Study. Unit: 1

Semester Prerequisite: Junior status, or graduate status

Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Course is cross-listed across different departments within the college.

IST 6030. Foundations of Business Systems. Units: 3

An introduction to business systems hardware components, operating system functions, information systems maintenance strategies for the organization, and end-user training options. Programming and scripting techniques as the basis for application development. Security practices such as network access, data disposal, introductory forensics and facilities planning are also explored. The students' understanding is reinforced during the course through the development of standalone applications and systems.

IST 6090. Information Systems and Technology Management. Units: 3

Advanced applications of computer and information systems in organizations. Topics include analyzing information technology impact on organizational business models, making a business case for information technology, information management planning, information technologies infrastructure, cyber security, IT project risk assessment, and IT leadership and governance. Policy issues surrounding project management, information classification, IT audit, and legal issues related to privacy and security will also be covered. Formerly offered as IST 609.

IST 6110. Foundations of Analytics and Big Data. Units: 3

Business analytics is the scientific process of transforming data into insight for making informed decisions. Any organization in the public or private sector that wishes to accomplish its mission and maintain competitive advantage uses data-driven decision making metrics/analytics. This course uses hands-on tools, and a series of readings, videos, quizzes and discussion to assist students in understanding quantitative management tools used to drive business performance and security. In this course you will review the basic statistical concepts, learn data visualization and storytelling through big data, and use advanced statistical techniques for clustering, forecasting, and predicting. The design, development, validation and organization of metrics using hands-on tools.

IST 6115. Fundamentals of Cyber Security. Units: 4

This course provides a broad introduction to a variety of topics in computer security. These include applied cryptography, access control, various security policy models, identification and authentication methods, protection against external and internal threats, security management and Internet security.

IST 6117. Network Security 1. Units: 3

This course introduces basic network protocols such as TCP/IP, IP addressing, switching, routing, LAN, etc. via popular network simulation or/and packet analysis tools. Covers how the various layers of the network protocol stack contribute to security and basic network attacks and threats.

IST 6125. Law and Policy. Units: 3

This course provides an overview of the legal rights and liabilities associated with operation and use of computers and information, including the legal and regulatory compliance issues critical for cybersecurity managers. Approaches to reducing risk of potential legal liability for computer security or information privacy failures, and methods of enforcing security and privacy rights against other parties will also be covered. The course will include discussion of case studies and best practices.

IST 6215. Network Security 2. Units: 3

Semester Prerequisite: IST 6115 and IST 6117

This course is designed to help students develop a deeper understanding of modern network security protocols and threats present in computer networks and will look at security in the enterprise. Topics include cryptographic network protocols such as SSL, PKI, IPSec VPN, network authentication, network security architecture and management concepts, network forensics via packet analysis, and network attacks and defense strategies.

IST 6232. Risk Assessment & Management. Units: 4

Semester Prerequisite: IST 6115 and IST 6117

This course will discuss and apply risk management frameworks. It will cover methods for assessing, managing and reducing risk to include detection, recovery, and damage control. Methods of and procedures for contingency planning and security policy formulation and enforcement will also be discussed. Practical/applied exercises will be used in this course.

IST 6235. Cyber Analytics and Visualization. Units: 3

Semester Prerequisite: IST 6115 and IST 6117

This course covers visual and fundamental data analytics techniques of electronically generated data. Topics include: data sources, data collection, the threat visualization process, data visualization tools, and analytics techniques for malware detection and analysis.

IST 6385. Capstone. Units: 4

Semester Prerequisite: IST 6215, IST 6232, and IST 6235

This capstone course will integrate the various topics covered in the prior courses into an integrative project.

IST 6395. Contemporary Issues and Practices in Cybersecurity 1. Units: 3

Semester Prerequisite: IST 6215, IST 6232, and IST 6235

An intensive study of current issues and practices in Cybersecurity. This is the first course in a sequence.

IST 6397. Contemporary Issues and Practices in Cybersecurity 2. Units: 3

Semester Prerequisite: IST 6215, IST 6232, and IST 6235

An intensive study of current issues and practices in Cybersecurity. This is the second course in a sequence.

IST 6415. Information Resources and Project Management. Units: 3

This course focuses on project management in the context of IT projects, including large software development projects. Using the framework of project life cycle, the course covers: (i) project initiation, (ii) project planning and scheduling, (iii) project monitoring and control, and (iv) project termination. The use of project network and software development cost and personnel time estimation are covered in detail. Risk assessment methods including simulation and risk reduction approaches are also be covered. Students are required to use software tools to simulate project completion times. The waterfall, Object Oriented, Agile, Rapid Application Development, Joint Application Development, and Lean models are covered.

IST 6450. Systems Analysis, Design and Implementation. Units: 3

Semester Prerequisite: IST 6090. Quarter Prerequisite: IST 609

Students will gain an appreciation of the importance of effective systems analysis and design to enable and support an organization's mission and its competitive priorities. Problem formulation, decomposition and software project effort estimation (requirements and analysis) and secure solution building (design and implementation) will be covered. Students will work in small groups, each group having the responsibility for requirements elicitation, analysis, secure design and implementation of a system prototype. CASE and project management tools will be used in all stages of the learning process. Formerly offered as IST 645.

IST 6470. Database Management and Policies. Units: 3

Semester Prerequisite: IST 6090. Quarter Prerequisite: IST 609
This course uses a project based approach to prepare students for real life conception, design, and implementation of secure databases in organizations. Focus is on how databases support organization mission and strategic priorities. Topics include managerial information needs, techniques of conceptual database modeling, database system architecture, data models (ER, relational, and others); query languages (relational algebra, SQL, and others); implementation techniques of database management systems, database administration, and management of semi-structured and complex data; distributed and no-SQL databases. Formerly offered as IST 647.

IST 6480. Information Networking Systems and Security. Units: 3

Semester Prerequisite: IST 6090 or consent of instructor. Quarter Prerequisite: IST 609 or consent of instructor
Advanced study of developing, implementing, securing and managing information networks. Systems architecture, models, standards and security are emphasized. Topics include use of hardware, software, routers, wireless communications, and Voice over IP. Management issues such as access control, privacy, connection security and policies are also explored using industry analytic and management tools. Formerly offered as IST 648.

IST 6620. Business Analytics and Decision Making. Units: 3

Semester Prerequisite: IST 6090 or consent of instructor. Quarter Prerequisite: IST 609
The course provides an overview of the wide area of data analytics, with a particular focus on to the tools required to store, clean, manipulate, visualize, model, and ultimately extract information from various sources of data as well as an introduction to deterministic decision-making, decision making under uncertainty/risk, and application of optimization decision analysis tools. Topics include the analytics life cycle, data integration and modeling, the use of univariate and multivariate statistical methods to analyze data, relational databases and SQL, text processing and sentiment analysis, data visualization and the use of Business Intelligence Tools for modeling and decision support. Offered as IST 6620 and SCM 6620, students may not receive credit for both. Formerly offered as IST 650.

IST 6670. Data Warehousing and Business Intelligence. Units: 3

Semester Prerequisite: IST 6030, IST 6110 and IST 6470, or Consent of Instructor. Quarter Prerequisite: ADMN 601, ADMN 602, and IST 647, or Consent of Instructor
Design and management of data warehouse (DW) and business intelligence (BI) systems. Using DW tools to collect, integrate, and mine the organization's data. Focus is on aggregation of data to enhance visualization, Extract, Transform and Load (ETL), data schema design, data security, on demand data access, ERP systems, report generation, managing the ERP project, OLAP, cube design, and big data. Formerly offered as IST 684.

IST 6680. Business Applications Using Web Technologies. Units: 3

Semester Prerequisite: IST 6030 and IST 6450. Quarter Prerequisite: IST 603 and IST 645
This course provides a comprehensive theoretical and practical knowledge in the area of web based business applications. This course covers the concepts of internet communications, various web technologies and their applications in e-business and standard method of communicating between applications and across the web. If time permits, a number of advanced topics such as semantic web and web security will be covered.

IST 6700. Cybersecurity Policy and Risk Management. Units: 3

Semester Prerequisite: IST 6090, or Consent of Instructor. Quarter Prerequisite: IST 609
This course discusses information security from a system-wide perspective, including policies, procedures and functions necessary to organize and administer ongoing security functions in an organization as well as explore the principles of risk management. Topics include security practices, architecture and models, continuity planning, resiliency and risk identification, risk analysis, risk management, incident handling, threat assessment, and supply chain security. NIST and other risk management frameworks are applied in combination with legal and ethical requirements. Formerly offered as IST 610.

IST 6720. Cyber Defense and Vulnerability Analysis. Units: 3

Semester Prerequisite: IST 6090 and IST 6480, or Consent of Instructor. Quarter Prerequisite: IST 609 and IST 648, or Consent of Instructor
Advanced study of information assurance and security including methods and practices used by federal and state agencies, and private sector best practices. Topics include threat assessment, red teaming methods, countermeasures, practices and law. Students will work in simulated environments and will investigate crimes and experience various security scenarios.

IST 6730. Cybersecurity Theory and Practice. Units: 3

Semester Prerequisite: IST 6720 or Consent of Instructor
A comprehensive course on the application of cybersecurity tools, techniques and procedures. Students will apply concepts of confidentiality, integrity and availability in order to protect information. Topics may include, but are not limited to: cryptography, identification, analysis, and mitigation of threats to internal information technology (IT) systems or networks; assessments of threats and vulnerabilities, level of risk, identification of deviations from acceptable configurations, and recommendations appropriate mitigation countermeasures.

IST 6755. Internship. Unit: 1

Semester Prerequisite: Consent of college internship coordinator. Quarter Prerequisite: senior standing preferred; consent of instructor and the departments internship coordinator
Supervised work and study in private or public organizations. May be repeated for credit. A total of six units of Jack H. Brown College of Business and Public Administration 5753 or 5755 courses may be applied toward graduation. Graded credit/no credit.

IST 6780. Risk Management. Units: 3

Semester Prerequisite: IST 6090 and IST 6110 or Consent of Instructor. Quarter Prerequisite: IST 609 and ADMN 601, or Consent of Instructor
The course explores the principles of risk management. It focuses on ways how businesses assess, control, and transfer risk. Topics include risk identification, risk analysis, risk management, incident handling, threat assessment, troubleshooting, allocating resources and system certification, the National Institute of Science and Technology (NIST) Risk Management Framework and strategies to treat risk. Formerly offered as IST 678.

IST 6800. Advanced E-commerce Technologies. Units: 3

Semester Prerequisite: IST 6090 Information Systems and Technology Management and MKTG 6500 E-commerce, or consent of instructor
This course focuses on electronic commerce technologies, applications and tools which are used to conduct business on the World Wide Web. Topics include: e-commerce technology and system security, scripting technologies, web site design and deployment strategies, robotics and mobile commerce technologies, online transaction processing, electronic data interchange (EDI), customer relationship management technologies and applications, and multi-carrier parcel management applications. Additional topics include major issues associated with e-commerce such as: privacy, intellectual property rights, authentication, encryption, acceptable use policies, and legal liabilities.

IST 6890. Enterprise Architecture Planning, Strategy, Security and Policy. Units: 3

Semester Prerequisite: IST 6030, IST 6110, IST 6450, IST 6470, and IST 6480; or Consent of Instructor. Quarter Prerequisite: ADMN 601, ADMN 602, IST 645, IST 647, and IST 648; or Consent of Instructor
The course provides students with the knowledge and skills they need to understand how an Enterprise Architecture assists in integrating strategic, business, policy, and technology planning methods, which in turn support enterprise-wide information technology resource development and governance based on needed business requirements. The course first covers the theory, frameworks, principles and use-case based best practices of enterprise architecture planning, strategy, security and policy; and then the students complete projects as they learn the art of designing Enterprise Architectures for real organizations. Formerly offered as IST 646.

IST 6960. MSIST Culminating Project. Units: 3

Semester Prerequisite: Completion of 30 units in the MSIST program
The culminating experience will be a comprehensive project to be directed, reviewed, and assessed by tenure track faculty and selected professionals to ensure students ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. Can be taken in fall or spring semester after advancement to candidacy. The graduation writing requirement is met upon successful completion of IST 6960. Formerly known as IST 691.

IST 6980. MSIST Portfolio. Units: 0

Semester Prerequisite: Completion of 30 units in the program. Quarter Prerequisite: Completion of 32 units in the program
Preparation and submission of a portfolio folder containing graded assignments representing successful work in the MSIST program, accompanied by a reflective essay showing how the portfolio demonstrates the accomplishment of the goals and objectives of the student and that of the MSIST program. Graded Credit/no credit. Formerly offered as IST 995.

IST 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

IST 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

IST 6992. Continuous Enrollment for Graduate Candidacy Standing. Units: 2

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

IST 6993. Continuous Enrollment for Graduate Candidacy Standing. Units: 3

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

IST 6994. Continuous Enrollment for Graduate Candidacy Standing. Units: 4

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

IST 6995. Continuous Enrollment for Graduate Candidacy Standing. Units: 5

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

IST 6996. Continuous Enrollment for Graduate Candidacy Standing. Units: 6

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

Japanese (JAPN)

Courses

JAPN 1102. Beginning Japanese Activity Lab. Unit: 1

Extra practice for students who plan on continuing their Japanese studies to the 2nd year Japanese courses. Activities will correspond to topics in Beginning Japanese 2. Graded credit/no credit.

JAPN 1111. Beginning Japanese I. Units: 4

Introduction to beginning level Japanese. Students will explore Japanese culture through the Japanese language. Students will practice in routine social situations through speaking, listening, reading, and writing. Formerly JAPN 101. Materials fee required.

JAPN 1112. Beginning Japanese II. Units: 3

Semester Prerequisite: 2 years high school language study, placement exam, equivalent college-level course (eg JAPN 1111) or consent of department

Students continue to develop their ability to use Japanese in a variety of cultural contexts. Practice in routine social situations through speaking, listening, reading and writing. Satisfies GE C2/3B, DI, G designations. Materials fee required.

JAPN 2100. Japanese Calligraphy. Units: 3

Learning Japanese calligraphy, its history and its development. Learn proper techniques as well as stylistic elements of calligraphy. Course taught in English. May be repeated twice for a total of 6 units. Formerly JAPN 210. Materials fee required.

JAPN 2111. Second Year College Japanese A. Units: 4

Further study of the language to attain proficiency in four language skills: listening, speaking, reading and writing. Students will improve fluency from class discussion on a variety of topics. Formerly JAPN 201. Materials fee required.

JAPN 2112. Second Year College Japanese B. Units: 4

Further study of the language to attain proficiency in four language skills: listening, speaking, reading and writing. Students will improve fluency from class discussion on a variety of topics. Formerly JAPN 202. Materials fee required.

JAPN 2204. Conversation in Japanese. Units: 3

Semester Prerequisite: JAPN 1112 or consent of department
Practice of Japanese oral communication including current topics, panel discussions, debates, and oral presentations. Students will become familiar with day-to-day social and business expressions. Formerly JAPN 214. Materials fee required.

JAPN 2900. Japanese Literature in English. Units: 3

Introduction to Japanese literature read in English translation. Selection of writers and genres from classical and contemporary Japanese literature. Satisfies GE C2/3B, DI, G designations. Materials fee required.

JAPN 3100. Analysis of Japanese Culture through Film. Units: 3

Analysis of selected classical and contemporary Japanese films. Taught in English, students will watch Japanese films with English subtitles. This exploration of Japanese cinema will offer both a new perspective on cinema itself and an opportunity to view many aspects of Japanese culture, such as the mindset of the Japanese people, their lifestyles, values, customs, religions, etc. Formerly JAPN 370. Materials fee required.

JAPN 3111. Third Year College Japanese A. Units: 3

Quarter Prerequisite: JAPN 203 or consent of department
Development of speaking, listening, reading, and writing skills at the intermediate level. This course enhances communicative competence and cultural understanding through interactive activities, focusing on both formal and informal language use. Students will explore a range of topics to build proficiency in everyday and professional contexts. JAPN 3111 can be taken before or after JAPN 3112. Materials fee required.

JAPN 3112. Third Year College Japanese B. Units: 3

Strengthening of speaking, listening, reading, and writing skills at the intermediate level. This course emphasizes language proficiency through complex topics and authentic materials, fostering deeper cultural understanding and confident communication. It is designed to complement JAPN 3111, and students may take either course first. Materials fee required.

JAPN 3113. Business Japanese. Units: 3

Semester Prerequisite: JAPN 2111 AND JAPN 2112 or consent of department
Introduction to business vocabulary and grammatical structure of the Japanese language and discussion of Japanese culture in business settings. Materials fee required.

JAPN 3114. Japanese Literature. Units: 3

Semester Prerequisite: JAPN 2111 and JAPN 2112
Techniques of literary study and analysis. Emphasis on vocabulary development, written expression and comprehension.Materials fee required. Formerly JAPN 310.

JAPN 3150. Japanese Conversation Lab. Unit: 1

Semester Prerequisite: JAPN 2111 and JAPN 2112 or consent of department
Systematic practice to improve Japanese conversation, which include vocabulary, grammar, and presentation strategies. May be repeated for credit up to a maximum of 4 units.

JAPN 3160. Japanese Writing Lab. Unit: 1

Semester Prerequisite: JAPN 2111 and JAPN 2112 or consent of department. Quarter Prerequisite: JAPN 203 or consent of department
Systematic practice to achieve pre-advanced level Japanese writing, which includes Kanji, vocabulary and grammar. May be repeated for credit up to a maximum of 4 units.

JAPN 3204. Advanced Conversation in Japanese. Units: 3

Semester Prerequisite: JAPN 2111 AND JAPN 2112 or consent of department. Quarter Prerequisite: JAPN 203 or consent of department
Practice of contemporary spoken Japanese through the reading and discussion of current topics. Formerly JAPN 314. Materials fee required.

JAPN 3500. Japanese Civilization and Culture. Units: 3

Introduction and exploration of characteristic features of Japanese civilization and culture from Neolithic age to 1945 A.D. through studying selected topics and themes in fields such as art, literature, religion. Materials fee required.

JAPN 3701. Study Abroad in Japan. Unit: 1

Research project based on traveling or living in Japan. When study is associated with an academic program, copies of grades, syllabus, and submitted work may substitute for research project. Department consent required. Maybe be repeated 6 times for a total of 6 units. Formerly HUM 578.

JAPN 3702. Study Abroad in Japan. Units: 2

Research project based on traveling or living in Japan. When study is associated with an academic program, copies of grades, syllabus, and submitted work may substitute for research project. Departmental consent required. May repeat 3 times for a total of six units. Formerly HUM 578.

JAPN 3703. Study Abroad in Japan. Units: 3

Research project based on traveling or living in Japan. When study is associated with an academic program, copies of grades, syllabus, and submitted work may substitute for research project. Department consent required. May repeat twice for a total of six units. Formerly HUM 578.

JAPN 3900. Voices & Visions from the World of Japanese Anime and Manga. Units: 3

Exposure to a variety of anime and manga texts from the post-World War II period to the present, focusing on language and features unique to the genre. Examine, analyze, discuss narratives and selected topics in Japanese culture. Satisfies GE C4/UD-3, G, WI designations. Taught in English. Materials fee required.

JAPN 3950. Special Topics in Japanese Popular Culture. Units: 3

Introduction and analysis of the role of popular culture in the formation, creation, and exportation of "national" identity in East Asia with an emphasis on Japan. Satisfies GE category C4/UD-3, G designation, WI designation. Taught in English. Materials fee required. Can be taken two times for up to 6 units as topics change.

Kinesiology (KINE)

Courses

KINE 1010A. Individual and Dual Activities: Badminton. Unit: 1

Development of basic skills, techniques, rules and strategies through instruction and practice in a variety of individual and dual type sports and activities. Formerly known as KINE 101B; can be repeated for credit. Graded ABC/No Credit. Materials fee required.

KINE 1010B. Individual and Dual Activities: Pickleball. Unit: 1

Development of basic skills, techniques, rules and strategies through instruction and practice in a variety of individual and dual type sports and activities. Can be repeated for credit. Graded ABC/No Credit. Materials fee required.

KINE 1010D. Individual and Dual Activities: Bowling. Unit: 1

Open to all CSUSB students. Development of basic skills, techniques, rules, and strategies through instruction and practice in a variety of individual and dual type sports and activities. May be repeated for credit. Graded ABC/No Credit. Materials fee required.

KINE 1010E. Individual and Dual Activities: Tennis. Unit: 1

Development of basic skills, techniques, rules and strategies through instruction and practice in a variety of individual and dual type sports and activities. Formerly KINE 101S; can be repeated for credit. Graded ABC/No Credit. Materials fee required.

KINE 1140A. Physical Fitness and Conditioning Activities: Body Conditioning. Unit: 1

Principles, practices and individual evaluation in a variety of fitness and conditioning activities. Formerly KINE 114A; can be repeated for credit. Graded ABC/No Credit. Materials fee required.

KINE 1140B. Physical Fitness and Conditioning Activities: Independent Activity. Unit: 1

Open to all CSUSB students. Principles, practices and individual evaluation in a variety of fitness and conditioning activities. Can be repeated for credit. Graded ABC/No Credit.

KINE 1140C. Physical Fitness and Conditioning Activities: Jogging. Unit: 1

Principles, practices and individual evaluation in a variety of fitness and conditioning activities. Formerly KINE 114C; can be repeated for credit. Graded ABC/No Credit. Materials fee required.

KINE 1140D. Physical Fitness and Conditioning Activities: Weight Training. Unit: 1

Principles, practices and individual evaluation in a variety of fitness and conditioning activities. Formerly KINE 114E; can be repeated for credit. Graded ABC/No Credit. Materials fee required.

KINE 1140E. Physical Fitness and Conditioning Activities: Yoga. Unit: 1

Principles, practices and individual evaluation in a variety of fitness and conditioning activities. Formerly KINE 114F; can be repeated for credit. Graded ABC/No Credit. Materials fee required.

KINE 1200A. Somatic and Martial Arts Activities: Aikido. Unit: 1

Instruction and practice in the basic skills and techniques utilized in selected combative and martial arts movement forms. Formerly KINE 120A; can be repeated for credit. Graded ABC/No Credit. Materials fee required.

KINE 1200E. Somatic and Martial Arts Activities: Karate. Unit: 1

Instruction and practice in the basic skills and techniques utilized in selected combative and martial arts movement forms. Formerly known as KINE 120E; can be repeated for credit. Graded ABC/No Credit. Materials fee required.

KINE 1200F. Somatic and Martial Arts Activities: Self-Defense. Unit: 1

Instruction and practice in the basic skills and techniques utilized in selected combative and martial arts movement forms. Formerly known as KINE 120F; can be repeated for credit. Graded ABC/No Credit. Materials fee required.

KINE 1200G. Somatic and Martial Arts Activities: Cardio-Arts. Unit: 1

Instruction and practice in the basic skills and techniques utilized in selected combative and martial arts movement forms. Formerly known as KINE 120G; can repeat for credit. Graded ABC/No Credit. Materials fee required.

KINE 1200I. Somatic and Martial Arts Activities: Pilates. Unit: 1

Instruction and practice in the basic skills and techniques utilized in selected somatic and martial arts movement forms. Formerly known as KINE 120J; can repeat for credit. Graded ABC/No Credit. Materials fee required.

KINE 1210A. Team Activities: Basketball. Unit: 1

Basic skills, techniques, rules and strategies of selected team sports achieved through participation. Formerly known as KINE 121A; can be repeated for credit. Graded ABC/No credit. Materials fee required.

KINE 1210C. Team Activities: Soccer. Unit: 1

Basic skills, techniques, rules and strategies of selected team sports achieved through participation. Formerly known as KINE 121F; can be repeated for credit. Graded ABC/No credit. Materials fee required.

KINE 1210F. Team Activities: Volleyball. Unit: 1

Basic skills, techniques, rules and strategies of selected team sports achieved through participation. Formerly known as KINE 121K; can be repeated for credit. Graded ABC/No Credit. Materials fee required.

KINE 1370A. Aquatic Activities: Swimming. Unit: 1

Instruction and practice of basic skills and techniques used in aquatic activities. Formerly known as KINE 137J; students can repeat for credit. Graded ABC/No credit. Materials fee required.

KINE 1370E. Aquatic Activities: Advanced Swimming for Fitness. Unit: 1

Instruction and practice in the basic skills and techniques utilized in selected somatic and martial arts movement forms. Intended for those who have already taken an introductory swim class or who have prior swimming ability. Advanced swimming drills and lap swim workouts. Graded ABC/No Credit. Formerly known as KINE 137L; students can repeat for credit. Materials fee required.

KINE 1490. Independent Activity Project. Unit: 1

The course designed to meet the individual needs of a student who is not able to participate in the general Kinesiology physical activity program due to medical conditions or other extenuating circumstances. This course will provide an individually designed physical activity experience in a least restrictive environment. A Kinesiology faculty will supervise the activity experience. Consent of the instructor is required. Formerly known as KINE 149; can be repeated for credit. Graded ABC/No Credit. Materials fee required.

KINE 1500A. Dance Activities: Aerobic. Unit: 1

Development of proficiency and practice in basic dance skills including the exploration, expression and creativity of movement as utilized in a variety of dance forms. Formerly known as KINE 150A; can be repeated for credit. Graded ABC/No credit. Materials fee required.

KINE 1500B. Dance Activities: Low-Impact Aerobic. Unit: 1

Development of proficiency and practice in basic dance skills including the exploration, expression and creativity of movement as utilized in a variety of dance forms. Formerly known as KINE 150B; can be repeated for credit. Graded ABC/No credit. Materials fee required.

KINE 1500C. Dance Activities: Step Aerobic. Unit: 1

Development of proficiency and practice in basic dance skills including the exploration, expression and creativity of movement as utilized in a variety of dance forms. Formerly known as KINE 150C; can be repeated for credit. Graded ABC/No credit. Materials fee required.

KINE 1500D. Dance Activities: Ballet. Unit: 1

Development of proficiency and practice in basic dance skills including the exploration, expression and creativity of movement as utilized in a variety of dance forms. Formerly known as KINE 150D; can be repeated for credit. Graded ABC/No credit. Materials fee required.

KINE 1500F. Dance Activities: Jazz. Unit: 1

Development of proficiency and practice in basic dance skills including the exploration, expression and creativity of movement as utilized in a variety of dance forms. Formerly known as KINE 150F; can be repeated for credit. Graded ABC/No Credit. Materials fee required.

KINE 1500J. Dance Activities: Sampler. Unit: 1

Development of proficiency and practice in basic dance skills including the exploration, expression and creativity of movement as utilized in a variety of dance forms from classes 1500A-J. Formerly know as KINE 150; students can be repeated for credit. Graded as ABC/No Credit. Materials fee required.

KINE 1600. Women's Intercollegiate Activities. Unit: 1

Enrollment limited to members of women's intercollegiate sports such as volleyball, cross country, basketball, softball, soccer, and track & field. The intercollegiate activity units may not be substituted for physical education activity units in the undergraduate degree requirements. Formerly KINE 160; may be repeated for credit. Graded ABC/No Credit. Materials fee required.

KINE 1700. Special Topics Activities. Unit: 1

Open to all CSUSB students. Participation and instruction of special topics in physical activity which meet the dynamic needs and/or desires of the student population. The title to be specified in advance. May be repeated for credit. Graded ABC/No Credit. Materials fee required.

KINE 1900. Men's Intercollegiate Activities. Unit: 1

Enrollment limited to members of men's intercollegiate sports such as soccer, basketball, golf, and baseball. The intercollegiate activity units may not be substituted for physical education activity units in the undergraduate degree requirements. Formerly KINE 190; may be repeated for credit. Graded ABC/No Credit. Materials fee required.

KINE 2000. CPR and First Aid. Unit: 1

Introduction to the emergency care and treatment of illnesses and injuries including training in cardiopulmonary resuscitation (CPR). May lead to certification in Standard First Aid from the American Red Cross and/or CPR from the American Heart Association. Formerly known as KINE 200, students cannot receive credit for both.

KINE 2010. Introduction to Physical Activity and Health Promotion. Units: 3

This course provides a comprehensive introduction to the evidence-based principles underlying physical activity and health promotion. Students will explore the interdisciplinary nature of kinesiology, integrating concepts of the biological impacts of physical activity on the body's functioning and the complex interplay between chronic diseases, and the principles behind developing effective behavioral strategies for diverse populations. Not intended for kinesiology majors. May be combined with KINE 2010L. Satisfies GE B2/5B.

KINE 2010L. Introduction to Physical Activity and Health Promotion Laboratory. Unit: 1

Semester Corequisite: KINE 2010

This laboratory course provides a comprehensive introduction to applied principles of physical activity and health promotion. The analysis of health and physical activity data through a variety of assessments will be emphasized. Students will apply the interdisciplinary nature of physical activity and health through lab activities, which includes collaborative work, physical activity participation, and technology driven results. Not intended for kinesiology majors. May be combined with KINE 2010. Materials fee required. Satisfies GE B3/5C.

KINE 2050. Foundations for Lifetime Fitness and Wellness. Units: 3

Introduction and discussion of the interrelationship between physical fitness, wellness, and student success. Topics include: benefits associated with physical activity, development of healthier lifestyles, and physical fitness assessment, while developing academic and intellectual competence. Students will develop practical skills to enhance personal wellness and academic success through the examination of learning techniques and the utilization of the various university support facilities.

KINE 2100. Orientation to Kinesiology. Units: 3

Provides a historical and philosophical analysis about the evolution of Kinesiology. This course introduces students to the influences of Kinesiology through the historical and philosophical lens of physical activity, movement behavior, as well as the broader cultural philosophical, political, intellectual, and economic patterns effecting the discipline and its sub-fields. Formerly offered as a combination of KINE 210 and KINE 310; student whom earned credit for KINE 210 and KINE 310 cannot earn credit for this course.

KINE 2200. Medical Terminology. Units: 3

Introduction to medical terminology using word building (roots, suffixes, prefixes, spelling and pronunciation) as they relate to anatomical structure and function. Medical terminology related to pharmacology, abnormal conditions, surgical procedures, and diagnosis and treatment of common medical conditions. This course is taught online.

KINE 2300. Prevention and Care of Athletic Injuries. Units: 3

Semester Prerequisite: BIOL 2230 and BIOL 2240. Quarter Prerequisite: BIOL 223 and BIOL 224

Theories and methods in the prevention, assessment, and treatment of injuries encountered in physical activity and sports. Formerly offered as KINE 305, students may not receive credit for both courses. Materials fee required.

KINE 2400. Applications of Technology in Kinesiology. Unit: 1

Examination and application of technology in exercise science, physical activity, and heath. Content is consistent with skills necessary to prepare students for professions in the field of kinesiology. Formerly known as KINE 240, students may not receive credit for both. Materials fee required.

KINE 2500. Observational Field Experience in Kinesiology. Units: 2

Observational field experience (on or off-campus) in exercise testing, monitoring, and programming. The American College of Sports Medicine expects that new fitness professionals will have spent time observing practitioners. One hour lecture and three hours of observation. Formerly offered as KINE 493, students may not receive credit for both courses.

KINE 2510. Research Seminar in Kinesiology. Unit: 1

Discussion and critical analysis of peer-reviewed articles in the area of Kinesiology.

KINE 2540. Field Work in Physical Education and Adapted Physical Education. Units: 2

Supervised off-campus observational field experience in teaching physical education and adapted physical education. One hour of lecture and three hours of observation. Instructor consent is required. Formerly offered as KINE 254; May be taken four times for eight units.

KINE 2612. Teaching/Coaching Principles for Swimming and Aquatics. Units: 2

The development of the fundamental techniques and skills for teaching and coaching professional swimming, aquatics skills, and water safety instruction preparation. Instructions in individual aquatic skills, and in organizing a school aquatic program. A swim test must be passed within the first two weeks in order to remain in the class. To pass the test, students must demonstrate proficiency in four fundamental swimming skills (i.e., front crawl, back crawl, breaststroke, and elementary backstroke). Students who do not pass the swimming test will be withdrawn from the class by the instructor. Those who are concerned about passing the swim test are encouraged to take KINE 1370 prior to registering for this course. Materials fee required.

KINE 2613. Teaching/Coaching Principles for Gymnastics and Rhythmic Activities. Units: 2

The development of the fundamental techniques and skills for teaching and coaching gymnastics and rhythmic activities. Focus on organizational strategies utilized in presenting gymnastics and rhythmic activities in K-12 physical education classes. Formerly offered as KINE 2610 and 2611; students may not earn credit for this course and both 2610 and 2611. Materials fee required.

KINE 2614. Teaching/Coaching Principles for Combative/Fitness Activity. Units: 2

The development of the fundamental techniques and skills for teaching and coaching professional combative and fitness activities. Consists of instruction, practice, and evaluation in physical fitness and basic skills and techniques utilized in selected combative and martial arts movement form. Formerly offered as KINE 2620; students may not earn credit for both KINE 2614 and KINE 2620. Materials fee required.

KINE 2630. Teaching/Coaching Principles for Individual/Dual Sport. Units: 3

The development of the fundamental techniques and skills for teaching and coaching professional individual and dual sports. This course centers on the basic skills of selected individual and dual sports and strategies for successful performance in individual and dual sports. Two hours lecture and two hours activity. This course is a combination of KINE 261B and KINE 261J; students who earned credit for KINE 261B and 261J may not earn credit for this course. Materials fee required.

KINE 2640. Teaching/Coaching Principles for Team Sports. Units: 3

The development of the fundamental techniques and skills for teaching and coaching professional team sports. This course centers on the basic skills of selected team sports and strategies for successful performance in team sports. Two hours lecture and two hours activity. This course is a combination of KINE 263A, B, C, D, E; students who earned credit for four of the five courses listed may not earn credit this course. Materials fee required.

KINE 2650. Teaching/Coaching Principles for Fundamental Movement, Nontraditional Games. Units: 3

The development of the fundamental techniques and skills for teaching and coaching professional fundamental movement and nontraditional games activity preparation. This course identifies examples of nontraditional, global, and cooperative games and activities, and applies knowledge of how to promote critical thinking, decision making, problem solving, collaboration, cooperation, leadership, and communication through participation in non-traditional games and activities. Two hours lecture and two hours activity. Materials fee required.

KINE 2700. Introduction to Fitness and Programming. Units: 3

Understanding the scientific basis for assessing physical conditioning, fitness, and strength development. Acquisition of the skills and techniques necessary for designing and evaluating fitness programs for specific applications. Students will show a valid American Red Cross or American Heart Association CPR certification for completion of the course. Formerly known as KINE 270; students may not earn credit for both. Materials fee required.

KINE 3000. Exercise and well-being of the human body. Units: 3

Semester Prerequisite: Junior or senior standing

This course will cover foundational links between scientific disciplines relating exercise, mental health, and overall well-being of the human body. Students will take a problem-oriented approach to explore, analyze, and explain the role of exercise and its impact on the overall well-being of the human body. An emphasis will be placed on the biopsychological, biological, biochemical, and physiological mechanisms underlying how exercise shapes an individual's well-being. Students will be able to explore, engage in, and analyze various exercises that have known relationships with reducing stress, reducing anxiety, and promoting a healthy well-being. The use of technology will be incorporated to collect, analyze, and interpret physiological and psychological data. Satisfies GE B5/UD-5.

KINE 3011. Service Learning in Kinesiology. Unit: 1

Semester Prerequisite: KINE 2100. Quarter Prerequisite: KINE 210

Supervised activities in Kinesiology that provide service to campus or community constituents based on field experiences for students to link their coursework with the discipline of Kinesiology. Graded ABC/No Credit. Formerly known as KINE 301; repeatable for credit.

KINE 3050. Disability, Society and Physical Activity. Units: 3

This course will cover material related to disabilities and physical activity from a historical, societal, and social behavioral perspective. Students will be able to explore, develop, analyze, and integrate the social and physical aspects of disabilities. Emphasis will also be placed on the exploration of differing perspectives while making connections across disciplines. Social identities of race, class, gender, sexual orientation, and other conditions will be explored. Satisfies GE D4/UD-4, DI designation.

KINE 3100. Introduction to Adapted Physical Activity. Units: 3

Provides an overview of adapted physical activity. Understanding the basic concepts and issues about teaching/coaching/training individuals with various disabling conditions. Formerly offered as KINE 311; students cannot earn credit for both.

KINE 3200. Principles of Human Movement. Units: 3

Semester Prerequisite: BIOL 2230 and BIOL 2240

Basic mechanical principles and their application in the study of human movement and an introduction to basic principles of biomechanics.

KINE 3250. Exercise Techniques for Resistance Training. Units: 3

Semester Prerequisite: BIOL 2230 and BIOL 2240. Prerequisite: BIOL 223 and BIOL 224

The students will explore a variety of exercises relating to the development of muscular strength, endurance, and power using a variety of equipment, including free weights and resistance machines. Emphasis on the practical and appropriate application, instruction, and supervision of resistance exercise lifting and spotting techniques to accommodate a variety of clients and patients. Content is consistent with skills necessary to prepare students as health and fitness professionals by the American College of Sports Medicine, National Strength and Conditioning Association, and the United States Registry of Exercise Professionals. Two lecture hours and three lab hours. It is recommended to take KINE 3200 prior to this course. Materials fee required.

KINE 3300. Movement Skill Assessment for Individuals with Disabilities. Units: 3

Semester Prerequisite: KINE 3100. Quarter Prerequisite: KINE 311

Analysis of motor skills for the purpose of conducting meaningful assessment for individuals with disabilities. Formerly offered as KINE 330, students may not receive credit for both courses. Course required for the California Adapted Physical Education Added Authorization.

KINE 3320. The Nature and Issues Concerning Individuals with Disabilities. Units: 3

Semester Prerequisite: KINE 3100

Key initial adapted physical education core competencies about the nature and issues associated with disabling conditions across the lifespan. Formerly offered as KINE 332, students may not receive credit for both. Course required for the California Adapted Physical Education Specialist Credential.

KINE 3330. Applied Behavior Management. Units: 3

Applied behavior management and analysis strategies that have relevance and application to teaching physical education. Strategies to manage, motivate, and teach responsible behaviors in a variety of physical activity settings for individuals with and without disabilities. Emphasis is on single-subject applied research design. Formerly offered as KINE 333, students may not receive credit for both. Course required for the California Adapted Physical Education Specialist Credential.

KINE 3400. Psychology and Sociology of Human Movement. Units: 3

The theoretical foundations and practical applications of psychological and social concepts of sport, exercise, rehabilitation, and physical activity. Discussion topics relate to psychological components of human movement as well as components relating to social interactions and social institutions. Formerly offered as combination of KINE 323 and KINE 324, students may not receive credit for both.

KINE 3500. Motor Development Across the Lifespan. Units: 3

Concepts of growth and motor development of human beings throughout the lifespan. Focuses on physical growth and maturation and their relationships to motor behavior. Areas covered include prenatal and postnatal growth, maturation, development, sequential progression of fundamental motor skills, environmental factors that influence the teaching/learning of fundamental motor skills, and physical activity of individuals across a lifespan. Formerly offered as KINE 325; students may not receive credit for both courses.

KINE 3520. Movement for Children. Units: 2

The study and analysis of movement for children. Includes the structure of movement, the integration of movement activities and the human development aspects of movement. Formerly known as KINE 352, students may not receive credit for both.

KINE 3600. Physical Activity and Aging. Units: 3

Examination of the neurological and physiological changes associated with the aging process from post-adolescence through the senior years. Includes information concerning special planning, implementing and evaluation of adult oriented physical activity programs. Formerly offered as KINE 360; students may not earn credit for both courses.

KINE 3700. Statistics in Kinesiology. Units: 3

Semester Prerequisite: Completion of GE-B4/2

Selection, application and interpretation of evaluative measures used in pedagogical and in exercise science settings. Includes both descriptive and inferential statistics. Specific attention will be given to parametric techniques. Satisfies WI designation.

KINE 3800. Exercise Physiology. Units: 4

Semester Prerequisite: BIOL 2230 and BIOL 2240. Quarter Prerequisite: BIOL 223 and BIOL 224

Examination of the acute physiological effects of exercise and the adaptations resulting from regular exercise. Three hours of lecture and three hours of laboratory. Formerly offered as KINE 481; students may not receive credit for both course. Materials fee required.

KINE 3810. Sport and Exercise Nutrition. Units: 3

Discusses nutritional requirements for active people and athletes. Topics include nutritional requirements for exercise, nutrient timing, macronutrients, micronutrients, and popular sports nutrition supplements. Formerly offered as KINE 382 and HSCI 382; students may not earn credit for both courses. It is recommended to take BIOL 2240 prior to this course.

KINE 3900. Health and Fitness Business Management. Units: 3

Discusses business management as related to the health/fitness/wellness industry. Topics include budgeting, finance, marketing, sales, leadership, management, human resources, scheduling, evaluation of programs, and legal issues. Formerly offered as KINE 471, students may not receive credit for both courses.

KINE 4100. Motor Learning and Control. Units: 3

A behavioral and neurological level of analysis of the factors that influence the (re)acquisition and retention of motor skills with some emphasis on the role of the sensory and motor control systems. Formerly KINE 410, students may not receive credit for both.

KINE 4200. Seminar in Kinesiology. Unit: 1

Semester Prerequisite: Senior standing. Quarter Prerequisite: Senior standing

This course provides students with the opportunity to demonstrate knowledge and understanding of various concepts and issues about the profession and discipline of Kinesiology. Formerly known as KINE 490, cannot repeat for credit. Consent of Department required.

KINE 4300. Environmental Exercise Physiology. Units: 3

Semester Prerequisite: KINE 3800. Prerequisite: KINE 481

An examination of the acute and chronic physiological responses to exercise in different physical environments as well as injuries and illnesses related to exercising in environmental extremes.

KINE 4400. Exercise Testing and Prescription. Units: 4

Semester Prerequisite: KINE 3800. Quarter Prerequisite: KINE 481, KINE 485, and KINE 486

Prepares students to perform health screenings, operate basic physiological measurement equipment used in fitness assessment, and develop exercise prescriptions for a variety of populations. Content is consistent with skills necessary to prepare students as exercise physiologists by the American College of Sports Medicine and the United States Registry for Exercise Professionals. Formerly offered as a combination of KINE 486 and KINE 483; students whom earned credit for KINE 486 and KINE 483 may not earn credit for this courses. Three hours of lecture and three hours of lab. Materials fee required.

KINE 4500. Principles of Strength and Conditioning. Units: 3

Semester Prerequisite: KINE 3200 and KINE 3800. Prerequisite: KINE 481

An examination of the acute and chronic effects of various forms of strength training and conditioning in the generally healthy individual. Content is consistent with skills necessary to prepare students as health and fitness professionals by the National Strength and Conditioning Association and the United States Registry of Exercise Professionals.

KINE 4600. EKG Interpretation and Stress Testing. Units: 4

Semester Prerequisite: KINE 3800
Principles of electrocardiography, including EKG interpretation at rest and during graded exercise testing. Content is consistent with skills necessary to prepare students as exercise physiologist by the American College of Sports Medicine and United States Registry of Exercise Professionals. Three hours lecture and three hours lab. Materials fee required.

KINE 4700. Clinical Exercise Physiology. Units: 4

Semester Prerequisite: KINE 3800. Prerequisite: KINE 481
An examination of the physiological issues that are important in the use of exercise for prevention and/or treatment of chronic disorders. Content is consistent with skills necessary to prepare students as an exercise physiologist by the American College of Sports Medicine and the United States Registry of Exercise Professionals. Three hours lecture and three hours lab hour. Materials fee required.

KINE 4720. Program Design in Physical Education. Units: 3

Quarter Prerequisite: KINE 210
Basic skills necessary to design, implement, and evaluate effective physical education programs in public schools. Formerly KINE 472, cannot be repeated for course credit.

KINE 4730. Instructional Strategies in Physical Education. Units: 3

Prepares future physical educators with skills to translate goals and objectives in the teaching-learning process into effective teaching behaviors. Formerly KINE 473, cannot be repeated for course credit.

KINE 4740. Technology in Physical Activity. Units: 3

Prepares future Kinesiologists to effectively utilize technology to assist in the administration and evaluation of physical activity. This course focuses on the ever growing utilization of technology in the realm of kinesiology.

KINE 4800. Biomechanics. Units: 4

Semester Prerequisite: Completion of GE category B4, and KINE 3200. Quarter Prerequisite: BIOL 223 and BIOL 224 and MATH 110 or MATH 120, OR MATH 192, OR MATH 211
Application of physical laws to human performance; analytical and quantitative processes emphasized. Formerly offered as KINE 480, students may not receive credit for both courses. Three hours Lecture and three hours lab. GE B4- MATH 1301 is recommended for this course. Materials fee required.

KINE 4900. Seminar in Physical Education and Adapted Physical Education. Units: 3

Semester Prerequisite: Senior standing and KINE 3100
A study of issues associated with the philosophy, procedures, and practices of general physical education, adapted physical education, and adapted physical activity. Course required for the California Adapted Physical Education Added Authorization.

KINE 5951. Independent Study. Unit: 1

Experimental effort, field or library research conducted under the direction of a faculty member. Consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the semester in which the course is to be taken is required. Formerly offered as KINE 595A; students may repeat up to 3 units. A maximum of 3 units course credit can be earned of KINE 595 series.

KINE 5952. Independent Study. Units: 2

Experimental effort, field or library research conducted under the direction of a faculty member. Consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the semester in which the course is to be taken is required. Formerly offered as KINE 595B; students may not earn credit for both courses. A maximum of 3 units course credit can be earned of KINE 595 series.

KINE 5953. Independent Study. Units: 3

Experimental effort, field or library research conducted under the direction of a faculty member. Consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the semester in which the course is to be taken is required. Formerly offered as KINE 595C, students may not receive credit for both courses.

Korean (KOR)

Courses

KOR 1111. Beginning Korean I. Units: 3

Introduction to beginning level Korean, including the basic structures of the written language. Emphasis is on listening, speaking, reading and writing. Formerly KOR 101. Materials fee required.

KOR 1112. Beginning Korean 2. Units: 3

Semester Prerequisite: 2 years high school language study, placement exam, equivalent college-level course (eg KOR 1111) or consent of department
Develop listening and active speaking skills with emphasis on reading and writing. Satisfies GE C2/3B, DI, G designations. Materials fee required.

KOR 1114. Conversation in Korean I. Units: 3

Practice of oral Korean with emphasis on familiar surroundings, immediate needs, and basic survival skills. Graded credit/no credit. May be completed up to two times for credit. Formerly offered as KOR 170. Materials fee required.

KOR 2111. Intermediate Korean I. Units: 4

Semester Prerequisite: KOR 1112 or consent of department. Quarter Prerequisite: KOR 103 or consent of department
Second year course in modern Korean. Develops proficiency in listening, speaking, reading and writing, with a cultural emphasis. Students learn useful expressions and communication strategies for everyday situations in the language. Materials fee required. Formerly KOR 201.

KOR 2112. Intermediate Korean II. Units: 4

Semester Prerequisite: KOR 2111 or consent of department. Quarter Prerequisite: KOR 201 or consent of department
Continuation of second year Korean. Provides students with further conversational and grammatical skills beyond those learned in KOR 2111. Emphasis on communicative skills, speaking, reading, and writing with more complex structures in Korean. Formerly KOR 203. Materials fee required.

KOR 2204. Conversation in Korean. Units: 3

Semester Prerequisite: KOR 1112 or consent of department. Quarter Prerequisite: KOR 103
Practice of oral Korean including current topics, panel discussions, debates, and oral presentations. Students will become familiar with day-to-day social and business expressions. Formerly KOR 214.Materials fee required.

KOR 2900. Korean Literature in English. Units: 3

Introduction to Korean literature written in English translation. Students will explore selections of literary texts chosen from various periods with topics concerning Korean language, history, religion, and society. Satisfies GE C2/3B, DI, G, WI designations. Materials fee required.

KOR 3111. Advanced Korean I. Units: 3

Semester Prerequisite: KOR 2112 or consent of department
First course in an advanced-level sequence. Develops students' oral and written Korean language skills, as well as knowledge of Korean culture. Materials fee required. Formerly KOR 301.

KOR 3112. Advanced Korean II. Units: 3

Semester Prerequisite: KOR 3111 or consent of department
Second course in an advanced-level sequence. Develops students' oral and written Korean language skills, as well as knowledge of Korean culture. Materials fee required. Formerly KOR 302.

KOR 3314. Korean Conversation III. Units: 3

Semester Prerequisite: KOR 2202 or consent of instructor. Quarter Prerequisite: KOR 203 or consent of instructor
Practice of contemporary spoken Korean through the reading and discussion of current topics. Formerly offered as KOR 314. Materials fee required.

KOR 3370. Studies in Korean. Units: 3

Semester Prerequisite: KOR 1101 or equivalent
Studies in different aspects of Korean culture such as tradition, ritual, art, film, religion, politics, and food. Variable topic course, may be repeated for credit. Materials fee required.

KOR 3950. Korean Language and Society. Units: 3

Semester Prerequisite: KOR 2112 or consent of department. Quarter Prerequisite: KOR 203 or equivalent
Study of how language functions in traditional and contemporary Korean society. Analysis of politeness, gender, language attitudes, the mechanics of cross-cultural misunderstandings, and how language incorporates Korean social constructs. Formerly KOR 315. Materials fee required.

KOR 4250. Studies in Korean Culture. Units: 3

Semester Prerequisite: Korean 1101 or equivalent
Studies in different aspects of Korean culture such as tradition, ritual, art, film, religion, politics, and cuisine. Variable topic course, may be repeated for credit. Materials fee required.

KOR 4409. Business Korean. Units: 3

Semester Prerequisite: KOR 2112 or consent of department. Quarter Prerequisite: KOR 203 or consent of department
Introduction to business vocabulary and grammatical structure of the Korean language and discussion of Korean culture in business settings. Formerly KOR 409. Materials fee required.

Latin American Studies (LAS)

Courses

LAS 2000. Introduction to Latin American Studies. Units: 3

This course introduces issues related to Latin America from different perspectives as well as some of the foundations for the disciplines in the Latin American Studies Minor. Students will explore themes relevant to Latin America, such as transnationalism, community, identity, language, place and power. Satisfies GE D3/4; G designation.

Liberal Studies (LBST)

Courses

LBST 2970. Liberal Studies: Foundation Seminar and Assessment Preparation. Units: 3

Introduction to the Liberal Studies and Liberal Arts majors with special emphasis on lifelong learning, student success strategies, information literacy, senior assessment preparation, introduction to requirements leading to a multiple subject teaching credential, and inquiry into the roles of emerging educators and scholars within a broader society.

LBST 3603. Liberal Studies Experiential Learning. Units: 3

Semester Prerequisite: Consent of the instructor
Evaluation of student portfolio or other documentation that provides evidence of prior learning/work experience in a K-8 educational setting. A maximum of three units may be applied toward graduation.

LBST 3970. Gateway to Liberal Studies. Units: 3

Interdisciplinarity in a diverse K-8 classroom. Disciplinary and theoretical preparation for learning and teaching in California's elementary schools. Overview of the required multiple subjects and interdisciplinary knowledge. Discussion of theories and their corresponding pedagogies in light of a student body with different learning abilities and from a multiplicity of ethnic, linguistic, and cultural backgrounds. Consent required.

LBST 5900. Liberal Studies and Liberal Arts Senior Assessment and Writing Workshop. Units: 2

Semester Prerequisite: Senior standing and CAL 2970 must be taken during either of the last two semesters prior to graduation, for LBST, LSSS, and LIBA students, and prior to admission to the multiple-subject credentialing program for LBIT students
Preparation and submission of a portfolio of appropriate artifacts as the basis of a workshopped reflective essay showing how the portfolio demonstrates accomplishment of essential goals and program learning outcomes of the major. Satisfies WI designation.

Luiseño (LUIS)

Courses

LUIS 1111. Language Study I: Luiseño. Units: 3

Introduction to Luiseño language. Fundamentals of pronunciation, structure and culture designed to develop the ability to use and understand the language. Formerly FLAN 101Q. Materials fee required.

LUIS 1112. Language Study II: Luiseño. Units: 3

Semester Prerequisite: LUIS 1111 or 2 years high school language study, placement exam, equivalent college-level course or consent of department
Intermediate study in Luiseño language. Emphasis on oral and written competency at the intermediate level in a cultural context. Satisfies GE C2/3B, DI, G designations. Materials fee required.

LUIS 2111. Language Study III: Luiseño. Units: 3

Semester Prerequisite: LUIS 1112: Language Study II Luiseño (formerly FLAN 103Q). Quarter Prerequisite: FLAN 103Q or consent of department
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis. Formerly FLAN 201Q. Materials fee required.

LUIS 2112. Language Study IV: Luiseño. Units: 3

Semester Prerequisite: LUIS 2111Q: Language Study III Luiseño. Quarter Prerequisite: FLAN 201Q or consent of department
Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis. Formerly FLAN 202Q. Materials fee required.

LUIS 3111. Language Study V: Luiseño. Units: 3

Semester Prerequisite: LUIS 2112 or instructor consent
Continued study of the language to develop proficiency. Focus on authentic language and culture, as well as academic and professional contexts. Materials fee.

LUIS 3112. Language Study VI: Luiseño. Units: 3

Semester Prerequisite: LUIS 3111 or instructor consent
Continued study of the language to develop proficiency. Focus on authentic language and culture, as well as academic and professional contexts. Materials fee required.

Mathematics (MATH)

Courses

MATH 1001L. Quantitative Reasoning Lab. Unit: 1

Instruction and practice in quantitative reasoning. Topics include advanced place value reasoning, efficient estimation and mental computation, units of measure, advanced proportional reasoning, communicating quantitative information verbally and visually, mathematical technology. Activities may include computer-aided instruction. Placement determined by campus placement standards and consultation with an advisor. Recommended for students in General Education QR courses, statistics courses, or other quantitative methods courses in other disciplines. Graded Credit/No Credit.

MATH 1101. Mathematics and Society. Units: 3

Fundamentals of mathematics with applications to issues of personal and civic life. Personal finance, and topics such as voting and social choice, data science, chance. Use of spreadsheets and other technologies for visualization, experimentation, and problem solving. Placement determined by campus placement standards and advising. Satisfies GE B4/2.

MATH 1102. Stretch Mathematics and Society A. Units: 3

Fundamentals of mathematics with applications to issues of personal and civic life. Use of spreadsheets and other technologies for visualization, experimentation, and problem solving. First term of a two-term version of Math 1101. Successful completion of the two-term sequence Math 1102-1103 satisfies the GE B4/2. Placement determined by campus placement standards and consultation with an advisor. May not be taken for credit by students who have completed Math 1101, 115, 116A or 117B. Graded A through C-/No Credit.

MATH 1103. Stretch Mathematics and Society B. Units: 3

Quarter Prerequisite: MATH 116A or MATH 117B
Fundamentals of mathematics with applications to issues of personal and civic life. Use of spreadsheets and other technologies for visualization, experimentation, and problem solving. Second term of a two-term version of Math 1101. Successful completion of the two-term sequence Math 1102-1103 satisfies GE B4/2. Placement determined by campus placement standards and consultation with an advisor. May not be taken for credit by students who have completed Math 1101, 115, 116B or 117C. Graded A through C-/No Credit.

MATH 1104. Mathematics and Society with Support Lab. Units: 4

Fundamentals of mathematics with applications to issues of personal and civic life. Personal finance, and topics such as voting and social choice, data science, and chance. Use of spreadsheets and other technologies for visualization, experimentation, and problem solving. Three hours lecture and three hours lab. Placement determined by campus placement standards and advising. May not be taken for credit by students who have completed Math 1101, Math 1103 or Math 115. Graded A through C-/no credit. Satisfies GE B4/2.

MATH 1201. Introduction to Statistical Thinking. Units: 3

Introductory statistics with applications to a variety of disciplines. Critical thinking about real data, methods of analysis, and implications. Topics: collection, organization and representation of data, including sampling and experimental design; inferences, predictions, and arguments based on data, including correlation, confidence intervals, and hypothesis testing; and basic notions of chance and probability. Use of technology for displaying and analyzing data. Placement determined by campus placement standards and advising. Graded A through C-/No Credit. Satisfies GE B4/2.

MATH 1202. Stretch Introduction to Statistical Thinking A. Units: 3

Introductory statistics with applications to a variety of disciplines. Critical thinking about real data, methods of analysis, and implications. Use of technology for displaying and analyzing data. First term of a two-term version of Math 1201. Successful completion of the two-term sequence Math 1202-1203 satisfies GE B4/2. Placement determined by campus placement standards and advising. May not be taken for credit by students who have completed Math 1201 or Math 165. Graded A through C-/No Credit.

MATH 1203. Stretch Introduction to Statistical Thinking B. Units: 3

Introductory statistics with applications to a variety of disciplines. Critical thinking about real data, methods of analysis, and implications. Use of technology for displaying and analyzing data. Second term of a two-term version of Math 1201. Successful completion of the two-term sequence Math 1202-1203 satisfies GE B4/2. Placement determined by campus placement standards and advising. May not be taken for credit by students who have completed Math 1201 or Math 165. Graded A through C-/No Credit.

MATH 1204. Introduction to Statistical Thinking with Support Lab. Units: 4

Introductory statistics with applications to a variety of disciplines. Critical thinking about real data, methods of analysis, and implications. Topics: collection, organization and representation of data, including sampling and experimental design; inferences, predictions, and arguments based on data, including correlation, confidence intervals, and hypothesis testing; and basic notions of chance and probability. Use of technology for displaying and analyzing data. Three hours lecture and three hours lab. Placement determined by campus placement standards and advising. May not be taken for credit by students who have completed MATH 1201, 1203 or 165. Graded A through C-/No Credit. Satisfies GE B4/2.

MATH 1301. Modeling with Functions. Units: 3

Algebraic and geometric concepts of functions of one variable, including linear, exponential, logarithmic, and power functions. Applications to business, government, science, and other fields. Use of spreadsheets and other technologies for visualization, experimentation, and problem solving. Placement determined by campus placement standards and advising. Previously offered as MATH 110, students may not receive credit for both. Graded A through C-/No Credit. Satisfies GE B4/2.

MATH 1302. Stretch Modeling with Functions A. Units: 3

Algebraic and geometric concepts of functions of one variable, including linear, exponential, logarithmic, and power functions. Applications to business, government, science, and other fields. Use of spreadsheets and other technologies for visualization, experimentation, and problem solving. First term of a two-term version of Math 1301. Successful completion of the two-term sequence Math 1302-1303 satisfies GE B4/2. Placement determined by campus placement standards and advising. May not be taken for credit by students who have completed Math 1301, Math 110, Math 111A or Math 112B. Graded A through C-/No Credit.

MATH 1303. Stretch Modeling with Functions B. Units: 3

Semester Prerequisite: MATH 1302

Algebraic and geometric concepts of functions of one variable, including linear, exponential, logarithmic, and power functions. Applications to business, government, science, and other fields. Use of spreadsheets and other technologies for visualization, experimentation, and problem solving. Second term of a two-term version of Math 1301. Successful completion of the two-term sequence Math 1302-1303 satisfies GE B4/2. Placement determined by campus placement standards and advising. May not be taken for credit by students who have completed Math 1301, Math 110, Math 111B or Math 112C. Graded A through C-/No Credit.

MATH 1304. Modeling with Functions with Support Lab. Units: 4

Algebraic and geometric concepts of functions of one variable, including linear, exponential, logarithmic, and power functions. Applications to business, government, science, and other fields. Use of spreadsheets and other technologies for visualization, experimentation, and problem solving. Three hours lecture and three hours lab. Placement determined by campus placement standards and advising. May not be taken for credit by students who have completed MATH 1301, 1303 or 110. Graded A through C-/No Credit. Satisfies GE B4/2.

MATH 1401. Accelerated Preparation for Calculus. Units: 4

An accelerated course covering the content of Math 1402 and 1403 in one term. Algebraic and geometric concepts and skills needed for calculus. The algebra of functions, including linear, exponential, logarithmic, trigonometric, polynomial, and rational functions. Use of mathematical technologies for visualization, experimentation, and problem solving. Directed self-placement in this course is based on campus placement standards, mathematics department assessments, and advising. Formerly offered as the MATH 110, MATH 120 sequence. May not be taken for credit by students who have completed MATH 120 or MATH 1403. Graded A through C-/no credit. Satisfies GE Category B4.

MATH 1402. Preparation for Calculus A. Units: 3

Algebraic and geometric concepts and skills needed for calculus. The algebra of expressions, equations and functions, including linear, exponential, logarithmic, and polynomial functions. Use of mathematical technologies for visualization, experimentation, and problem solving. Directed self-placement in this course is based on campus placement standards, mathematics department assessments and consultation with an advisor. May not be taken for credit by students who have completed Math 1401 or Math 120. Graded A through C-/no credit. Satisfies GE B4/2.

MATH 1402L. Preparation for Calculus A Lab. Unit: 1

Semester Corequisite: Math 1402
Additional instruction in algebraic and geometric concepts and skills needed for calculus, including the algebra of expressions, equations and functions. Use of mathematical technologies for visualization, experimentation, and problem solving. Directed self-placement in this course is based on campus placement standards, mathematics department assessments and consultation with an advisor. May not be taken for credit by students who have completed Math 1401, 1402, 1403 or Math 120. Graded credit/no credit.

MATH 1403. Preparation for Calculus B. Units: 3

Semester Prerequisite: MATH 1402
Algebraic and geometric concepts and skills needed for calculus. The algebra of functions, including linear, trigonometric functions, rational functions and their limits. Use of mathematical technologies for visualization, experimentation, and problem solving. Directed self-placement in this course is based on campus placement standards, mathematics department assessments and consultation with an advisor. May not be taken for credit by students who have completed Math 1401 or Math 120. Graded A through C-/no credit. Satisfies GE B4/2.

MATH 1403L. Preparation for Calculus B Lab. Unit: 1

Semester Corequisite: Math 1403
Additional instruction in algebraic and geometric concepts and skills needed for calculus, including including trigonometric functions, rational functions and their limits. Use of mathematical technologies for visualization, experimentation, and problem solving. Directed self-placement in this course is based on campus placement standards, mathematics department assessments and consultation with an advisor. May not be taken for credit by students who have completed Math 1401, 1403 or Math 120. Graded credit/no credit.

MATH 1501. Critical Thinking Through Applications of Mathematical Logic. Units: 3

Analysis of formal and informal arguments from a wide range of examples drawn from everyday and mathematical contexts. Comparison of logic in natural and mathematical language. Inductive and deductive reasoning. Students will present and critique arguments in small peer groups. Formerly offered as MATH 180, students may not receive credit for both courses. Satisfies GE A3/1B.

MATH 1601. Modeling with Calculus. Units: 3

Semester Prerequisite: MATH 1301 or MATH 1303 or MATH 1401 or MATH 1402 or equivalent or satisfactory placement status
Survey of differential and integral calculus with emphasis on conceptual understanding and modeling the world around us. Use of mathematical technologies for visualization, experimentation, and problem solving. Not a substitute for any course in the calculus sequence MATH 2210, MATH 2220, MATH 2310, MATH 2320. Satisfies GE B4/2.

MATH 2210. Calculus I. Units: 4

Semester Prerequisite: Math 1401 or Math 1403 or satisfactory score on department placement exam
Differentiation of functions in one variable with an emphasis on conceptual understanding, problem solving, multidisciplinary applications, and use of technology for numerical methods and graphical representation. Topics will include limits, continuity, derivatives, modeling, optimization, and related rates. Additional topics include definite and indefinite integrals and the Fundamental Theorem of Calculus. Satisfies GE B4/2.

MATH 2210L. Calculus I Lab. Unit: 1

Semester Corequisite: Math 2210
Additional instruction in algebraic and geometric concepts and skills needed for Calculus I. Use of mathematical technologies for visualization, experimentation, and problem solving. Recommended for students registered in Math 2210. Directed self-placement in this course is based on campus placement standards, mathematics department assessments and consultation with an advisor. May not be taken for credit by students who have completed Math 211 or Math 2210. Graded Credit/No Credit.

MATH 2220. Calculus II. Units: 4

Semester Prerequisite: MATH 2210 or MATH 2120Q2S with a grade of C- (1.7) or better
Integration of functions in one variable with an emphasis on conceptual understanding, problem solving, multidisciplinary applications, and use of technology for numerical methods and graphical representation. Topics will include definite and indefinite integrals, applications of integration, modeling, techniques of integration, numerical integration, sequences and series, power series, parametric equations, and polar coordinates. Formerly offered as part of the MATH 211, 212, 213 sequence. Students may not earn credit for both MATH 213 and MATH 2220.

MATH 2220L. Calculus II Lab. Unit: 1

Semester Corequisite: Math 2220
Additional instruction in algebraic and geometric concepts and skills needed for Calculus II. Use of mathematical technologies for visualization, experimentation, and problem solving. Recommended for students registered in Math 2220. Directed self-placement in this course is based on campus placement standards, mathematics department assessments and consultation with an advisor. May not be taken for credit by students who have completed Math 212 or Math 2220. Graded Credit/No Credit.

MATH 2229L. Two-Dimensional Geometry Lab. Unit: 1

Two-dimensional geometry using technology and hands-on constructions. Topics include Euclidean geometry constructions, transformations, graphs of functions, parametrized curves. Recommended for students in or preparing for calculus, Math 3329, and future secondary teachers. Graded Credit/No Credit.

MATH 2239L. Three-Dimensional Geometry Lab. Unit: 1

Prerequisites: Math 2229L. Graded Credit/No Credit
Three-dimensional geometry using technology and hands-on constructions. Topics include lines and planes, polyhedra, curves and surfaces, graphs of functions of several variables, vector computations. Recommended for students in Math 2310, Math 2320, and future secondary teachers. Recommended.

MATH 2265. Statistics with Applications. Units: 3

Semester Prerequisite: MATH 2210 as a pre- or co-requisite. Quarter Prerequisite: MATH 211 as a pre- or co-requisite
Acquisition, organization, evaluation, and visual representation of data. Multivariate data, correlation, and regression. Estimation of parameters. Inference, including classical hypothesis testing. Computer-based simulations and the use of resampling methods. Emphasis on applications to real data. Formerly MATH 262; students may not earn credit for both.

MATH 2270. Differential Equations with Dynamical Systems I. Units: 3

Semester Prerequisite: MATH 2310. Quarter Prerequisite: MATH 251
Differential equations theory and applications. First-order linear and nonlinear differential equations with analytic and numerical techniques. Planar and higher order systems of linear differential equations with constant coefficients. Slope fields and phase portraits. Formerly Math 270; students may not earn credit for both.

MATH 2310. Applied Linear Algebra. Units: 4

Semester Prerequisite: MATH 2210 with a grade of C- or better; and MATH 2220 as a pre- or co-requisite. Quarter Prerequisite: MATH 212 with a grade of C- or better
Introduction to the algebra and geometry of vectors and matrices over the real numbers with an emphasis on conceptual understanding and applications. Topics will include solving systems of linear equations, linear transformations, eigenvalues and eigenvectors, vector products, orthogonal projections, and vector parametrizations of curves in two and three dimensions. Applications of these topics may include computer graphics, electrical networks, difference equations, dynamical systems, and economics. Students should expect to make appropriate use of technology for visualization and computation. Formerly part of MATH 251 and MATH 331; students may not earn credit for both MATH 2310 and MATH 331.

MATH 2320. Multivariable Calculus. Units: 4

Semester Prerequisite: MATH 2220 and MATH 2310 with a grade of C- or better. Quarter Prerequisite: MATH 251 and MATH 213 with a grade of C- or better
An extension of the notions of differentiation and integration to functions of several variables, vector analysis, and applications. Applications of differentiation will include linear approximation, directional derivatives, and optimization. Applications of integration will include area, volume, and other physical applications such as centers of mass, work, and flux. The course culminates with important theorems in vector analysis, in particular, those of Gauss, Green, and Stokes. Formerly part of the MATH 251 and MATH 252 sequence; students may not earn credit for MATH 2320 and MATH 252.

MATH 2372. Discrete Mathematics. Units: 3

Semester Prerequisite: Completion of the Quantitative Reasoning General Education requirement. Quarter Prerequisite: Completion of the general education requirement in mathematics
Introduction to the study and use of discrete mathematical structures including number systems and bases, propositional logic, sets, Boolean algebra, functions and relations, and induction. Additional topics may include graph theory and asymptotic notation as time permits. May not be counted toward fulfilling requirements in the mathematics major. Formerly Math 272. Formerly Math 2720. May not be taken for credit by students who have completed Math 272 or Math 2720.

MATH 2900. Problem Solving and Mathematical Reasoning for Teachers I. Units: 4

Semester Prerequisite: MATH 1401 or MATH 1403 or MATH 2210. Quarter Prerequisite: MATH 120 or MATH 211
Development of problem solving skills for future secondary teachers that foster mathematical habits of mind and practices. Incorporation of technological tools for teaching and learning secondary school mathematics. Emphasis on flexible thinking with a variety of strategies and representations. Topics include numerical reasoning, algebraic thinking, proportional reasoning and structure of number systems with connections to geometry. Formerly MATH 199 and MATH 299; students may not earn credit for both MATH 299 and MATH 2900. Graded ABC/NC.

MATH 3010. Mathematical Concepts and Problem Solving for Educators I. Units: 4

Semester Prerequisite: Completion of the general education requirements in quantitative reasoning, written communication, oral communication and critical thinking
Pedagogical content knowledge, problem solving skills, and communication skills in mathematics. Mathematical reasoning behind the structure and arithmetic of the real number system. Connections between numbers, measurement, and geometry. Mathematical content knowledge and skills related to the K-8 curriculum, at the conceptual depth required for high-quality teaching. Includes activities intended to support students in flexibly applying these skills. A demonstration of mastery of fundamental skills as determined by the Department of Mathematics is required for credit. Three hours seminar and one hour discussion. May not be counted toward fulfilling requirements in the mathematics major. Formerly Math 3011 and Math 3011L. Formerly part of the Math 301ABC and Math 308 sequence. May not be taken for credit by students who have completed MATH 301A or Math 3011. Graded ABC/No Credit.

MATH 3012. Mathematical Concepts and Problem Solving for Educators II. Units: 3

Semester Prerequisite: Completion of MATH 3010 or MATH 3011 with a course grade of at least C
Pedagogical content knowledge, problem solving skills, and communication skills in mathematics related to the K through 8 curriculum, at the conceptual depth required for high quality teaching. Development of algebraic thinking and multiplicative structures. Investigation of linear and proportional relationships through multiple representations. A demonstration of mastery of fundamental skills as determined by the Department of Mathematics is required for credit. Concurrent enrollment in MATH 3012L is recommended. May not be counted toward fulfilling requirements in the mathematics major. Formerly part of the Math 301ABC and Math 308 sequence. May not be taken for credit by students who have completed MATH 301B. Graded ABC/No Credit.

MATH 3012L. Proportional Reasoning Lab for Educators. Unit: 1

Semester Corequisite: Math 3012
Mathematical content knowledge and skills related to the K-8 curriculum, at the conceptual depth required for high-quality teaching. Skills and concepts to include measurement, multiplicative structures, proportional reasoning and algebraic thinking. Lab activities intended to support students in flexibly using fundamental skills required for passage of Math 3012. Recommended for students registered in Math 3012. Directed self-placement in this course is based on mathematics department assessments and consultation with an advisor. Graded Credit/No Credit. May be repeated for credit two times for a total of 2 units.

MATH 3013. Mathematical Concepts and Problem Solving for Educators III. Units: 3

Semester Prerequisite: Completion of MATH 3012 with a course grade of at least C. Quarter Prerequisite: Completion of MATH 301B with a grade of C or better
Pedagogical content knowledge, problem solving skills, and communication skills in mathematics related to the K through 8 curriculum, at the conceptual depth required for high quality teaching. Conceptual foundations of measurement and data analysis. Geometric reasoning about figures in 2 and 3 dimensions, including concepts of congruence, similarity, and geometric transformations. A demonstration of mastery of fundamental skills as determined by the Department of Mathematics is required for credit. Concurrent enrollment in MATH 3013L is recommended. May not be counted toward fulfilling requirements in the mathematics major. Formerly part of the Math 301ABC and Math 308 sequence. May not be taken for credit by students who have completed MATH 301C. Graded ABC/No Credit.

MATH 3013L. Algebra and Geometry Lab for Educators. Unit: 1

Semester Corequisite: Math 3013
Mathematical content knowledge and skills related to the K-8 curriculum, at the conceptual depth required for high-quality teaching. Skills and concepts to include polynomial and other nonlinear functions, and geometric reasoning about figures in 2 and 3 dimensions. Lab activities intended to support students in flexibly using fundamental skills required for passage of Math 3013. Recommended for students registered in Math 3013. Directed self-placement in this course is based on mathematics department assessments and consultation with an advisor. Graded Credit/No Credit. May be repeated for credit 2 times for a total of 2 units.

MATH 3100. Mathematical Thinking: Communication and Proof. Units: 4

Semester Prerequisite: MATH 2220 with a grade of C- or better
Disciplinary ways of thinking in mathematics with emphasis on the construction of valid mathematical arguments, critiques of arguments, and structure of professional mathematical writing including typesetting. Content will include topics from logic, set theory, divisibility, modular arithmetic, properties of real numbers, properties of relations/functions, and methods of proof. Three hours of lecture and one hour online. Graded ABC/NC. Satisfies WI designation.

MATH 3140. Introduction to Systems Modeling. Units: 3

Semester Prerequisite: Completion of GE 2
Construction of mathematical models and simulations of complex systems with many inputs and outputs using systems modeling software. Applications to include environmental, economic/business, social, scientific, and medical systems. Satisfies GE B5/UD-5, Environmental Sustainability, Diversity and Social Justice pathways.

MATH 3178. Methods and Practices for Teaching Mathematics. Unit: 1

Semester Prerequisite: A cumulative GPA of at least 2.9 in MATH courses numbered 2000 or higher. Quarter Prerequisite: A cumulative GPA of at least 2.9 in MATH courses numbered 200 or higher
Seminar on evidence-based teaching practices in mathematics. Topics include how people learn, active learning pedagogies, use of technology in teaching and learning, cognitive considerations, and ways of thinking in mathematics. Course expectations include study of research on mathematics learning and teaching and participation in learning community activities such as peer observations and lesson study. Consent of instructor required. Graded Credit/No-Credit. May be repeated for credit.

MATH 3320. Mathematical Interest Theory. Units: 3

Semester Prerequisite: MATH 2220 with a grade of C- or better. Quarter Prerequisite: MATH 213 with a grade of C- or better and MATH 241
Development of the mathematical theory of interest, including special cases of simple and compound interest, nominal and effective rates of interest, force of interest, and discount rate. Application of the theory to actuarial science, including the valuation of various streams of cash flow, annuities, yield rates, loans, and bonds. Formerly MATH 320; students may not earn credit for both.

MATH 3329. Euclidean Geometry with Transformations. Units: 3

Semester Prerequisite: MATH 3100 and high school geometry or equivalent; MATH 2310 as a pre- or co-requisite. Quarter Prerequisite: MATH 251 and high school geometry or equivalent
Euclidean geometry with emphasis on deductive proof and written communication. Definition of congruence and similarity by transformations. History of important theorems with analysis of dependence on Euclid's parallel postulate. Classification and construction of planar rigid motions and similarities. Formerly Math 329; students may not earn credit for both.

MATH 3345. Number Theory. Units: 3

Semester Prerequisite: Math 3100. Quarter Prerequisite: MATH 355
Classical number theory. Topics include the Euclidean Algorithm, Diophantine equations, primes, linear congruences, theorems of Fermat, Euler, and Wilson, and number theoretic functions. Emphasis on rigorous proof and mathematical communication. Formerly Math 345; students may not earn credit for both.

MATH 3372. Combinatorics. Units: 3

Semester Prerequisite: MATH 2220 with a grade of C- or better; or MATH 2210, MATH 2265, and MATH 2372 with a grade of C- or better
Study of enumeration techniques, generating functions, recurrence relations, and principle of inclusion and exclusion. Formerly MATH 372; students may not earn credit for both.

MATH 3460. Probability Theory. Units: 3

Semester Prerequisite: MATH 2320. Quarter Prerequisite: MATH 252
Introduction to counting techniques. Definition and properties of probability spaces. Random variables and their fundamental properties including densities, mass and distribution functions, means and variances. Theoretical properties of random variables including Chebyshev's inequality and the law of large numbers. Multivariate distributions with related concepts such as independence and joint distributions. Modeling of probabilistic processes including the use of appropriate software. Formerly MATH 465; students may not earn credit for both.

MATH 3465. Computational Statistics. Units: 3

Semester Prerequisite: Math 2265, Math 3460
Essential concepts of computational statistics, including probability distributions, generating random variables, exploratory data analysis, Monte Carlo Methods for Inferential Statistics, data partitioning, probability density estimation, variance reduction techniques, bootstrapping, and optimization methods for maximum likelihood estimation. We will use the statistical software package R/R studio extensively in this course. May not be counted toward fulfilling requirements in the mathematics major.

MATH 3480. Topics in History of Mathematics. Units: 3

Semester Prerequisite: Math 2220 with grade of C- or better. Quarter Prerequisite: Math 213 with grade of C- or better
Exploration of the historical and topical development of interconnected areas of mathematics, such as algebra, geometry and analysis. Discussion of the influence of a variety of cultures and societies on the development of mathematical ideas and discovery will be included. Formerly Math 480; students may not earn credit for both.

MATH 3510. Topics in Mathematics. Units: 3

An in-depth study of selected areas of mathematics. Department consent required. May be repeated for credit with consent of department as topics change.

MATH 3770. Introduction to Graph Theory. Units: 3

Semester Prerequisite: MATH 2320. Prerequisite: MATH 252
Introduction to graph theory and its applications. Topics will include properties of graphs, trees, directed graphs, graph isomorphisms, Eulerian and Hamiltonian graphs, planarity, and graph coloring problems. Formerly a topic in MATH 510.

MATH 3951. Directed Study. Unit: 1

Reading and research in mathematics conducted under the direction of a faculty member. Consent of instructor and departmental approval of a written project proposal submitted on a standard application to be submitted in advance of the semester in which the course is to be taken. May be repeated for credit.

MATH 3952. Directed Study. Units: 2

Reading and research in mathematics conducted under the direction of a faculty member. Consent of instructor and departmental approval of a written project proposal submitted on a standard application to be submitted in advance of the semester in which the course is to be taken. May be repeated for credit.

MATH 3953. Directed Study. Units: 3

Reading and research in mathematics conducted under the direction of a faculty member. Consent of instructor and departmental approval of a written project proposal submitted on a standard application to be submitted in advance of the semester in which the course is to be taken. May be repeated for credit.

MATH 4270. Differential Equations with Dynamical Systems II. Units: 3

Semester Prerequisite: Math 2270. Quarter Prerequisite: MATH 270
Theory of ordinary differential equations. Planar and higher order systems of equations with an emphasis on graphical and numerical techniques, as well as models and applications. Phase trajectory and stability analysis. Existence and uniqueness. Additional topics may include Laplace transformations, matrix methods, Gauss-Jordan and iterative techniques, series solutions, chaos theory. Formerly Math 470; students may not earn credit for both.

MATH 4300. Real Analysis. Units: 4

Semester Prerequisite: MATH 2320 and MATH 3100. Quarter Prerequisite: MATH 252 and MATH 355
Properties of the set of real numbers and foundations of calculus: Equivalence relations, functions, cardinality, convergence of sequences and series of real numbers, topology of the real line, continuity, and differentiation. Emphasis on rigorous proof and mathematical communication. Professional mathematical typesetting and visualization technology. Formerly MATH 553 and part of MATH 355; students may not earn credit for both MATH 553 and MATH 4300.

MATH 4320. Introduction to Actuarial Modeling. Units: 3

Semester Prerequisite: MATH 3460. Quarter Prerequisite: MATH 465
Introduction to modeling and actuarial methods that are useful in modeling short-term insurance coverage problems, including frequency, severity, and aggregate models.

MATH 4360. Linear Statistical Models. Units: 3

Semester Prerequisite: MATH 3460 and Math 2265. Prerequisite: MATH 465 and MATH 262
Simple linear regression; multiple regression; analysis of variance; model validation and diagnostics. Additional topics may include ridge regression, LASSO, or logistic regression. Emphasis on computing and communication of statistical analyses.

MATH 4455. Partial Differential Equations & Fourier Analysis. Units: 3

Semester Prerequisite: MATH 2270 and MATH 2320 with a C- or better. Quarter Prerequisite: MATH 270, MATH 252
Theory of partial differential equations and Fourier analysis, including graphical and numerical methods. Classification of partial differential equations. Fourier series and the Fourier transform, convergence properties and orthogonality. Topics may include the heat equation, Laplace's equation, boundary-value problems, applications of Fourier and Laplace transforms. Formerly parts of MATH 455 and MATH 570. Students may not earn credit for all three courses.

MATH 4485. Differential Geometry. Units: 3

Semester Prerequisite: Math 2320 and Math 3100. Quarter Prerequisite: MATH 252, 331 and 355

An introduction to the differential geometry of curves and surfaces, including first and second fundamental forms, curvatures, geodesics, minimal surfaces, and Gauss-Bonnet Theorem. Formerly Math 485; students may not earn credit for both.

MATH 4600. Theory of Rings and Fields. Units: 4

Semester Prerequisite: MATH 2320 and MATH 3345

An introduction to the study of rings and fields including the algebraic structure of the integers, polynomials, real and complex numbers, Gaussian integers, and matrix rings. Topics include ideals, integral domains, quotient rings, homomorphisms, and related theorems including the Fundamental Homomorphism Theorem. The course may conclude with an introduction to group theory.

MATH 4900. Problem Solving and Mathematical Reasoning for Teachers II. Units: 4

Semester Prerequisite: MATH 2900 and MATH 3329

Continued development of problem solving skills and flexible thinking for future secondary teachers using multiple approaches and representations, mathematical habits of mind, and mathematical practices. Includes topics related to secondary mathematics and emphasizes communication, argumentation, mathematical structure and connections. Includes observations of secondary mathematics lessons via video with analysis of and reflection on effective teaching practices. Three hours in class and one hour online. Formerly MATH 399 and MATH 499. Students may not earn credit for MATH 499 and MATH 4900. Graded ABC/NC.

MATH 5170. Complex Analysis. Units: 3

Semester Prerequisite: Math 2320 and Math 3100. Quarter Prerequisite: MATH 252 and 355

Theory of functions of a complex variable with an emphasis on definitions and proof. Complex numbers and their properties, analytic functions and the Cauchy-Riemann equations, elementary functions of a complex variable, integration of complex functions, the Cauchy integral theorem and its consequences, contour integrals, residues, transforms, and conformal mappings. Formerly Math 557; students may not earn credit for both.

MATH 5300. Advanced Real Analysis. Units: 3

Semester Prerequisite: C- or better in MATH 4300. Quarter Prerequisite: C- or better in MATH 553

Further topics in the theory of single variable calculus: Continuation of differentiability, sequences of functions, series of functions and function approximation, uniform convergence, Riemann integration, pathological functions. May include selected topics from analysis as time permits, e.g., metric spaces, Lebesgue measure, normed linear spaces, historical developments. Emphasis on rigorous proof and mathematical communication. Professional mathematical typesetting and visualization technology. Formerly MATH 554; students may not earn credit for both.

MATH 5310. Advanced Linear Algebra. Units: 3

Semester Prerequisite: Math 2310 and Math 3100. Quarter Prerequisite: MATH 331 and at least one of MATH 329, MATH 345, or MATH 355

Theoretical aspects of vector spaces, linear transformations, and inner product spaces that include linear independence, dimension, matrix representations, dual spaces, quadratic forms, spectral theory, and canonical forms. Emphasis on rigorous proof and mathematical communication. Professional mathematical typesetting and visualization technology. Formerly MATH 531; students may not earn credit for both.

MATH 5360. Statistical Methods for Machine Learning. Units: 3

Semester Prerequisite: MATH 2265 - Statistics with Applications, MATH 4360 - Linear Statistical Models

In this class, we will explore and discuss statistical learning methods and their application to modern problems in science, industry, and society. Topics will include statistical learning, linear regression, classification, linear model selection, lasso and ridge regression, non-linear regression, and unsupervised learning. We will use the statistical software package R/R studio extensively in this course. May not be counted toward fulfilling requirements in the mathematics major.

MATH 5510. Topics in Advanced Mathematics. Units: 3

Quarter Prerequisite: Senior or graduate standing

Study of selected areas of advanced mathematics. May be repeated for credit with consent of instructor as topics change.

MATH 5529. Advanced Topics in Geometry. Units: 3

Semester Prerequisite: Math 2320 and Math 3329. Quarter Prerequisite: MATH 329, MATH 331 and MATH 355

Study and comparison of non-Euclidean geometries such as elliptical and hyperbolic geometries, with an emphasis on transformations. Non-Euclidean analogues of classical theorems in Euclidean geometry. Formerly Math 529; students may not earn credit for both.

MATH 5550. Introduction to Topology. Units: 3

Semester Prerequisite: C- or better in MATH 4300. Quarter Prerequisite: C- or better in MATH 355

An introduction to topological spaces, including metric spaces. Concepts will include continuous functions, homeomorphisms, and homotopies between topological spaces, notions of connectedness and compactness, Hausdorff spaces, product spaces, the quotient topology, and the fundamental group. Formerly MATH 555. Students may not earn credit for both.

MATH 5560. Special Topics in Statistics and Data Science. Units: 3

Semester Prerequisite: MATH 3460 and MATH 2265

Study of selected advanced topics in statistics, probability, and data science. Topics may include, but are not limited to, time series analysis, Bayesian methods, nonparametric inference, statistical computing, computational biology, and applied probability models. Course content will be announced prior to each offering. May be repeated for credit with the consent of instructor as topics change. Department consent required.

MATH 5565. Mathematical Statistics. Units: 3

Semester Prerequisite: C- or better in MATH 2265 and MATH 3460. Quarter Prerequisite: C- or better in MATH 465
Likelihood ratio, estimators, distributions of estimators, theory of hypothesis testing; resampling methods; introduction to Bayesian methods. Formerly MATH 565. Students may not earn credit for both.

MATH 5580. CSUSB to PhD Bridge. Units: 3

Semester Prerequisite: MATH 4300 or MATH 4600
Information about mathematics graduate school and tools to succeed in graduate school, with an emphasis on PhD-level work and programs. Activities may include independent investigation of advanced mathematics, locating professional funding and resources, preparing application materials, designing and delivering presentations, attendance at local seminars and research conferences, exploration of government and industry careers that use mathematics and statistics, and learning how to create a supportive research community. This is not a GRE preparation course. Formerly a topic in MATH 5510. Graded CR/NR. Department consent required.

MATH 5600. Group Theory. Units: 3

Semester Prerequisite: MATH 3345
Semester Corequisite: MATH 4600
A study of groups including symmetry groups, normal subgroups, isomorphisms, cosets, quotient groups, Sylow groups, and related theorems including Lagrange's Theorem, Cayley's Theorem, the Fundamental Theorem of Finite Abelian Groups.

MATH 5900. Senior Seminar for Future Mathematics Educators. Units: 3

Semester Prerequisite: Senior standing, Math 4900, and either MATH 4300 or MATH 4600
Culminating experience in problem solving, reasoning, and communication for future secondary mathematics teachers. Student led presentations and discussions around topics in mathematics education. Each student will reflect on their own mathematical growth throughout their undergraduate program and make connections to content and practice standards within secondary mathematics. Formerly MATH 599, students may not earn credit for both. Graded ABC/NC.

MATH 5951. Independent Study. Unit: 1

Semester Prerequisite: MATH 3100 and a minimum overall grade point average of a B or better. Quarter Prerequisite: MATH 345 or MATH 355, and a minimum overall grade point average of a B or better
An independent study course for junior or senior mathematics majors. Consent of instructor required and departmental approval of a written project proposal submitted in advance of the semester in which the course is to be taken. Repeatable for a maximum of three units; no more than three units of MATH 5951, MATH 5952, or MATH 5953 may be applied toward math elective credit for the degree.

MATH 5952. Independent Study. Units: 2

Semester Prerequisite: MATH 3100 and a minimum overall grade point average of a B or better. Quarter Prerequisite: MATH 345 or MATH 355, and a minimum overall grade point average of a B or better
An independent study course for junior or senior mathematics majors. Consent of instructor required and departmental approval of a written project proposal submitted in advance of the semester in which the course is to be taken. No more than three units of MATH 5951, MATH 5952, or MATH 5953 may be applied toward math elective credit for the degree.

MATH 5953. Independent Study. Units: 3

Semester Prerequisite: MATH 3100 and minimum overall grade point average of a B or better. Quarter Prerequisite: MATH 345 or MATH 355, and a minimum overall grade point average of a B or better
An independent study course for junior or senior mathematics majors. Consent of instructor required and departmental approval of a written project proposal submitted in advance of the semester in which the course is to be taken. No more than three units of MATH 5951, MATH 5952, or MATH 5953 may be applied toward math elective credit for the degree.

MATH 6000. Communicating Mathematics. Units: 2

Semester Prerequisite: Admission to the MA program in Mathematics. Prerequisite: Admission to the MA program in Mathematics
Seminar focusing on effective and precise written and oral communication of mathematics. Students will become familiar with scientific word processing and presentation programs such as LaTex and Beamer, and will prepare an article and presentation in professional style. This course meets the Writing Requirement for Graduate Candidacy.

MATH 6016. Graduate Algebra. Units: 4

Semester Prerequisite: Math 5600 and Admission the MA program in Mathematics. Quarter Prerequisite: MATH 546 and admission to the MA program
Continuation of Math 5600. Review of basic ring theory focusing on irreducibility and associated ideals, followed by fields and field extensions, Galois groups, solvability of groups and solvability of polynomials by radicals, and the Fundamental Theorem of Galois Theory. Formerly Math 616; students may not receive credit for both.

MATH 6018. Analysis in Several Variables. Units: 4

Semester Prerequisite: Math 5300 and admission to the MA program in Mathematics. Quarter Prerequisite: MATH 553; either MATH 554, MATH 555, or MATH 557; and admission to the MA program
A rigorous development of the calculus of vector valued functions of several variables, including a theoretical development of the derivative and its applications, the Inverse and Implicit Function Theorems, a development of Riemann Integration, Fubini's Theorem, differential forms, change of variables in integration, and Stokes' Theorem. Additional topics may include but are not limited to: abstract measure theory, metric spaces, or an introduction to manifolds and differential geometry. Formerly Math 618; students may not receive credit for both.

MATH 6110. Topics in Mathematics. Units: 3

Study of selected areas of advanced mathematics to be determined by the instructor. May be repeated for credit with department consent as topics change. There is no limit to the number of times this course may count towards the 6000-level elective requirement.

MATH 6145. Problem Solving. Units: 4

Semester Prerequisite: Admission to the MA program. Quarter Prerequisite: MATH 329, MATH 331, MATH 345, MATH 355 and MATH 372
A problem solving seminar in the style of George Polya, presenting techniques for attacking and solving challenging problems in mathematics. A variety of problem solving heuristics will be introduced, with an emphasis on induction and analogy. After surveying problems in a variety of content areas (e.g. geometry, algebra, combinatorial reasoning, and number theory), one area of mathematics will then be investigated and explored at a deeper level, employing the students' new problem solving skills. Formerly Math 604; students may not receive credit for both.

MATH 6178. Teaching Practicum. Units: 2

Semester Prerequisite: Admission to the MA program. Quarter Prerequisite: Admission to the MA program

Seminar on teaching methods for mathematics. It is strongly recommended that students have a teaching or tutoring position. Topics include active learning techniques, use of technology, and cognitive issues to look for, for example, proportional reasoning. Activities include readings and writings in mathematics pedagogy and learning community activities such as peer observations, lesson study, and class visits as available. Only one occurrence of Math 6178 may count toward the 6000 level elective requirement, however this course may be repeated for credit. Formerly Math 678. Students may receive credit for both, however only one may count toward the 6000 level elective requirement.

MATH 6301. Algebra from a Teaching and Problem Solving Perspective. Units: 4

Semester Prerequisite: Admission to the MAT program and MATH 3100, or consent of instructor, MATH 4600 is recommended. Quarter Prerequisite: Admission to the MAT in Mathematics program and MATH 345, or consent of instructor

Algebraic thinking building from numerical reasoning, algebraic structures, and fundamental concepts of functions. Problem solving using multiple representations will be stressed throughout. Students will adapt methods from this course for implementation in a secondary classroom setting and submit a written reflection on their learning in the course. Formerly MATH 631. May not be taken for credit by students who have completed MATH 631.

MATH 6302. Geometry from a Teaching and Problem Solving Perspective. Units: 4

Semester Prerequisite: Admission to the MAT program and MATH #transformation-geometry, or consent of instructor. Quarter Prerequisite: MATH 329 and admission to the MAT in Mathematics program, or consent of instructor

Development of geometric thinking, problem solving and proof with emphasis on Euclidean and transformational geometry. Geometric constructions using appropriate tools, including dynamic geometry software. Topics to include analytic geometry and concepts of trigonometry with applications. Students will adapt methods from this course for implementation in a secondary classroom setting and submit a written reflection on their learning in the course. Formerly MATH 632; may not be taken for credit by students who have completed MATH 632.

MATH 6303. Advanced Concepts of Secondary Mathematics from a Teaching and Problem Solving Perspective I. Units: 4

Semester Prerequisite: Admission to the MAT program, MATH 2220 and either MATH 2310 or MATH 2320, or consent of instructor, Math 6301 and 6302 are recommended. Quarter Prerequisite: MATH 213, MATH 251, and admission to the MAT in Mathematics program, or consent of instructor

The first of two courses addressing concepts typically addressed in the fourth year of secondary mathematics, from an advanced perspective, with active learning teaching strategies. Topics to include the further development of algebra, geometry, and trigonometry leading to a problem based approach to calculus. Emphasis on the study and application of functions. Students will adapt methods from this course for implementation in a secondary classroom setting and submit a written reflection on their learning in the course. May not be taken for credit by students who have completed Math 633 and Math 634.

MATH 6304. Advanced Concepts of Secondary Mathematics from a Teaching and Problem Solving Perspective II. Units: 4

Semester Prerequisite: Admission to the MAT program and either MATH 2265 or MATH 3460, or consent of instructor, Math 6301, 6302 and 6303 are recommended. Quarter Prerequisite: MATH 372 and admission to the MAT in Mathematics program, or consent of instructor

The second of two courses addressing concepts typically addressed in the fourth year of secondary mathematics, from an advanced perspective, with active learning teaching strategies. Topics to include further development of calculus, basic probability and descriptive and inferential statistics. Students will adapt methods from this course for implementation in a secondary classroom setting. Students will submit a written reflection on their learning in the course. May not be taken for credit by students who have completed Math 634 and Math 635.

MATH 6309. MAT Candidates' Seminar. Units: 4

Semester Prerequisite: Advancement to Candidacy. Prerequisite: Advancement to Candidacy and approval of graduate program coordinator

Analysis and synthesis of research literature in secondary mathematics education. Problem solving in secondary school mathematics. Consent of graduate program coordinator required. Graded Credit/No Credit.

MATH 6411. Operations Analysis. Units: 3

Semester Prerequisite: Admission to the MA program in National Security Studies

Scientific approach to the resolution of operational problems. Structure and function of models and decision strategy commonly used in national policy analysis including measures of effectiveness, uncertainty and the misuse of modeling. May not be counted toward fulfilling the requirements in either the MA or MAT in Mathematics programs. Formerly Math 611; students may not receive credit for both.

MATH 6880. Data Science Capstone Project. Units: 4

Semester Prerequisite: Advancement to candidacy in the MS in Applied Data Science program

Culmination of the MS in Applied Data Science program. Work on real-world projects that emphasize preparation for professional practice. Demonstration of proficiency in presenting and documenting work and preparing a formal data science project report. Requires departmental approval of a written project proposal submitted in advance of the semester in which the course is to be taken. May not be taken for credit in the Mathematics MA program. Offered as CSE 6880 and MATH 6880. Students may not receive credit for both.

MATH 6900. Comprehensive Exam Preparation in Elective Topics. Unit: 1

Semester Prerequisite: Advancement to candidacy
Semester Corequisite: Math 6916 and Math 6918
To be taken in the final semester of the program with Math 6916 and 6918, the objective of this course for the student is to prepare for the elective topic comprehensive exam; the scope of this exam is content from two elective courses the student has taken. This exam is administered by the student's faculty committee, which is generally expected to be the instructors from those elective courses the exam covers and one additional faculty of the student's choosing. Graded as CR when the exam is successfully passed, and RP otherwise. The exam may only be retaken once in the event it is not passed. Consent of instructor required. A written proposal must be submitted to the MA coordinator before the final week of classes in the semester preceding enrollment in Math 6900. This proposal must contain the date, time, and location of all comprehensive exams, it must also list the parameters of the Elective Topic Comprehensive Exam, and must have the approval of the instructors of the student's committee before submission to the MA coordinator for approval by the MA Committee.

MATH 6916. Comprehensive Exam Preparation in Algebra. Unit: 1

Semester Prerequisite: Advancement to candidacy
Semester Corequisite: Math 6900 and Math 6918
To be taken in the final semester of the program with Math 6918 and Math 6900, the objective of this course for the student is to prepare for the Algebra Comprehensive Exam. Graded as CR when the exam is successfully passed, and RP otherwise. The exam may only be retaken only once in the event it is not passed. Consent of instructor required.

MATH 6918. Comprehensive Exam Preparation in Analysis. Unit: 1

Semester Prerequisite: Advancement to candidacy
Semester Corequisite: Math 6916 and Math 6900
To be taken in the final semester of the program with Math 6916 and Math 6900, the objective of this course for the student is to prepare for the Analysis Comprehensive Exam. Graded as CR when the exam is successfully passed, and RP otherwise. The exam may only be retaken only once in the event it is not passed. Consent of instructor required.

MATH 6951. Graduate Independent Study. Unit: 1

Semester Prerequisite: Advancement to candidacy in the Mathematics MA or MAT program. Quarter Prerequisite: Advancement to candidacy in the Mathematics MA or MAT program; consent of the instructor and approval by the graduate committee
An independent study course for graduate students in mathematics. A written proposal for independent study must be submitted to the graduate committee before the final week of classes in the term preceding the term of enrollment in independent study. A maximum of four units of Graduate Independent Study (MATH 6951, 6952, 6953 or 6954) may count towards the 6000-level elective requirement in the Mathematics MA program. Department consent required.

MATH 6952. Graduate Independent Study. Units: 2

Semester Prerequisite: Advancement to candidacy in the Mathematics MA or MAT program. Quarter Prerequisite: Advancement to candidacy in the MA or MAT in Mathematics program; a grade point average of at least 3.5 in courses in the program, consent of the instructor and approval by the graduate committee
An independent study course for graduate students in mathematics. A written proposal for independent study must be submitted to the graduate committee before the final week of classes in the term preceding the term of enrollment in independent study. A maximum of four units of Graduate Independent Study (MATH 6951, 6952, 6953 or 6954) may count towards the 6000-level elective requirement in the Mathematics MA program. Formerly MATH 695B. Department consent required.

MATH 6953. Graduate Independent Study. Units: 3

Semester Prerequisite: Advancement to candidacy in the Mathematics MA or MAT program. Quarter Prerequisite: Advancement to candidacy in the MA or MAT in Mathematics program, a grade point average of at least 3.5 in courses in the program, consent of the instructor and approval by the graduate committee
An independent study course for graduate students in mathematics. A written proposal for independent study must be submitted to the graduate committee before the final week of classes in the term preceding the term of enrollment in independent study. A maximum of four units of Graduate Independent Study (MATH 6951, 6952, 6953 or 6954) may count towards the 6000-level elective requirement in the Mathematics MA program. Formerly MATH 695C. Department consent required.

MATH 6954. Graduate Independent Study. Units: 4

Semester Prerequisite: Advancement to candidacy in the Mathematics MA or MAT program. Quarter Prerequisite: Advancement to candidacy in the MA or MAT in Mathematics program, a grade point average of at least 3.5 in courses in the program, consent of the instructor and approval by the graduate committee
An independent study course for graduate students in mathematics. A written proposal for independent study must be submitted to the graduate committee before the final week of classes in the term preceding the term of enrollment in independent study. Students will be required to give an oral presentation of their work to the mathematics department to count this course towards the 6000-level elective requirement in the Mathematics MA program. A maximum of four units of Graduate Independent Study (MATH 6951, 6952, 6953 or 6954) may count towards the 6000-level elective requirement in the Mathematics MA program. Formerly MATH 695D. Department and College consent required.

MATH 6963. Master of Arts in Teaching Mathematics Project. Units: 3

Semester Prerequisite: Advancement to candidacy in the Mathematics MAT program. Quarter Prerequisite: Graduate standing, consent of the instructor, approval of the thesis proposal by the graduate committee and submission of at least three contributions to the Assessment Portfolio
Written project and oral presentation of the project to the department of Mathematics. A written project proposal following departmental guidelines must be submitted to the graduate committee before the last week of classes in the term preceding enrollment in MATH 6963. Instructor consent required. May not be counted toward fulfilling the requirements of the Mathematics MA. Formerly Math 699. Graded Credit/No Credit.

MATH 6972. Graduate Thesis I. Units: 2

Semester Prerequisite: advancement to candidacy (and GPA greater than or equal to 3.25 in the MA program). Quarter Prerequisite: Graduate standing, consent of instructor, approval of the project proposal by the graduate committee and approval of at least five contributions to the assessment portfolio of the seven listed under 6b and 6c in the requirements for graduation

Thesis preparation. Objectives: assemble thesis committee and submit thesis proposal to the MA Committee. Consent of thesis advisor. A written course proposal must be submitted to the MA coordinator before the final week of classes of the semester preceding enrollment in Math 6972. Graded as CR upon completion of work, RP until that time. Formerly Math 696; students may not receive credit for both.

MATH 6974. Graduate Thesis II. Units: 4

Semester Prerequisite: A GPA in the MA program of 3.25 or higher, Math 6972, advancement to candidacy, and approval of thesis proposal produced in Math 6972 by the MA Committee. Quarter Prerequisite: MATH 696 and consent of instructor

Continuation of Math 6972. Objectives: successful completion and defense of the thesis. Graded CR upon successful completion of the thesis and acceptance of it by Graduate Studies, graded RP until then. Consent of Department required. Formerly Math 697; students may not receive credit for both.

MATH 6980. MAT Comprehensive Examination. Units: 0

Semester Prerequisite: advancement to candidacy in the Mathematics MAT program, completion of program coursework, and approval of the graduate coordinator. Prerequisite: advancement to candidacy in the Mathematics MAT program, completion of program coursework, and approval of the graduate coordinator

An assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. Examination topics to include the content of MATH 6301, 6302, 6303 and 6309. Candidates for the Mathematics MAT may enroll no earlier than the last term in which MAT coursework is taken. May not be counted towards the requirements of the Mathematics MA degree. Graded credit/no credit.

MATH 6981. MA Comprehensive Examination. Units: 0

Semester Prerequisite: Advancement to candidacy in the Mathematics MA program and expected completion of program coursework in the semester enrolled

An assessment of the student's ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. Students should enroll in this course in the expected final semester of the program concurrent with Math 6900, 6916, and 6918. Approval of the graduate coordinator required. Graded credit/no credit. The grade of Credit is given when all three MA Comprehensive Exams are passed.

MATH 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MATH 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MATH 6992. Continuous Enrollment for Graduate Candidacy Standing. Units: 2

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MATH 6993. Continuous Enrollment for Graduate Candidacy Standing. Units: 3

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MATH 6994. Continuous Enrollment for Graduate Candidacy Standing. Units: 4

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MATH 6995. Continuous Enrollment for Graduate Candidacy Standing. Units: 5

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MATH 6996. Continuous Enrollment for Graduate Candidacy Standing. Units: 6

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

Management (MGMT)

Courses

MGMT 2300. Legal Environment of Organizations. Units: 3

An introduction to statutory and common law developments impacting organizational transactions. Emphasizes principles of constitutional law and commercial speech, civil procedure, white collar crime, corporate social responsibility, ethics, contract law, creditor/debtor law and bankruptcy. Formerly offered as MGMT 230.

MGMT 3020. Organizational Behavior. Units: 3

This course is designed to cover the theory, research, and practice of organizational behavior. Students will be exposed to concepts associated with individual, group, and organizational levels of analysis in the context of dynamic and diverse work environments and organization types. Topics will include personality, motivation, group and team dynamics, leadership, and organizational culture. Formerly offered as MGMT 302.

MGMT 3030. Managing and Leading Organizations. Units: 3

This course provides an exploration of concepts related to individual, group, and organizational behavior in dynamic and diverse work environments within the context of groups and conflict. This course provides leaders with the knowledge and skills necessary to work in increasingly diverse, team-based, and changing institutional environments. Students are provided with team and negotiation techniques that will enable effective negotiation and bargaining strategies. The course requires working competitively and collaboratively through a series of in-class simulations, virtual case studies, and hands-on projects, and is designed to provide a detailed understanding and application of organizational theory as it relates to people in organizations.

MGMT 3300. Legal Environment of Business. Units: 3

Semester Prerequisite: MGMT 2300 or consent of instructor. Quarter Prerequisite: MGMT 230

Study of the legal system, nature and source of law as applied to business activity, statutes and significant cases involving business policies and the effect of public policies on private enterprise system sale of goods under the Uniform Commercial Code. Additional topics include regulations, employment law, commercial paper and secured transactions and forming business organizations including sole proprietorships, LLCs, and corporations. Formerly offered as MGMT 330.

MGMT 3350. Business, Ethics, and Society. Units: 3

Semester Prerequisite: Students should have complete 1 writing-intensive (WI) course prior to enrollment in MGMT 3350

This course equips future professionals with the knowledge and skills required to address the most pressing challenges of our era by focusing on the three core pillars of Environment, Social, and Governance (ESG). Social and legal factors influencing business; social expectations for ethical conduct and corporate social responsibility (CSR); role of business in alleviating societal problems. Students will develop a comprehensive understanding of ESG principles and their application in real-world business scenarios. Satisfies WI designation.

MGMT 3370. Business Ethics and Sustainability. Units: 3

This course equips future professionals with the knowledge and skills required to address the most pressing challenges of our era by focusing on the three core pillars of Environment, Social, and Governance (ESG). Social and legal factors influencing business; social expectations for ethical conduct and corporate social responsibility (CSR); role of business in alleviating societal problems. Students will develop a comprehensive understanding of ESG principles and their application in real-world business scenarios.

MGMT 3470. Fundamentals of Business Law. Units: 3

Study of the legal system, nature and source of law as applied to business activity, statutes and significant cases involving business policies and the effect of public policies on private enterprise system sale of goods under the Uniform Commercial Code. Includes commercial paper and forming business organizations including sole proprietorships, LLCs, and Corporations. Also introduces such topics as statutory and common law as well as constitutional and commercial speech, civil procedure. Additional topics include regulations, employment law, commercial procedure, white collar crime, corporate social responsibility, ethics, contract law, creditor/debtor law and bankruptcy.

MGMT 3500. Applied Communication. Units: 3

Semester Prerequisite: Junior standing. Students should have completed at least 60 semester units

This course focuses on written and oral communication skills and theories most relevant to local and global organizations. It emphasizes effective and ethical interactions in an organizational context. Students will learn how to communicate to address specific audiences using appropriate mechanics and how to professionally and effectively present their ideas. Formerly offered as MGMT 350. Satisfies WI designation.

MGMT 3900. Principles of Strategy. Units: 2

Quarter Prerequisite: Upper Division Status

Learn about the fundamental principles of business, concepts of business policy, and how these can be applied to strategic functions and practices, for strategic planning and decision making in the organization context. Understand environmental ecosystem, network of stakeholders, and portfolio of value transformation capabilities.

MGMT 4020. Organizational Change and Disruptions. Units: 3

Semester Prerequisite: MGMT 3020. Quarter Prerequisite: MGMT 302 or PSYC 302

This course is designed to cover the theory, research, and practice of organizational change and development. The course examines organizational strategies and the effects of contingency factors on changes within organizations. Additionally, it examines various change management strategies used by organizations to illustrate why some survive while others do not. Formerly offered as MGMT 402.

MGMT 4030. Managing Negotiations. Units: 3

Semester Prerequisite: Junior Standing. Prerequisite: Junior Standing

Managing the art and method of negotiation and bargaining. Topics will include laws, regulations, theories, practices, and skills necessary to prepare, plan, present, and manage dispute and resolutions. Cultural, ethical, institutional, and demographic dimensions will also be addressed.

MGMT 4500. Interpersonal Relationships at the Workplace. Units: 3

Semester Prerequisite: Junior standing. Prerequisite: Junior standing

Concepts, theories, and practices related to interpersonal communication and relationships at the workplace. Selected topics include relationship development, supportive communication, interpersonal influences & conflicts, intercultural communication, and the dark side of relationships at the workplace.

MGMT 4520. Leadership and Followership. Units: 3

Semester Prerequisite: MGMT 3020. Quarter Prerequisite: MGMT 302 or PSYC 302

Classical and contemporary theories, approaches, and applications of leadership for leading individuals and groups effectively and for developing ethical awareness to respond appropriately to ethical dilemmas. An analysis of the role of followers in leader effectiveness. Formerly offered as MGMT 452.

MGMT 4910. Strategic Management. Units: 3

Semester Prerequisite: Completion of MGMT 3900

Theories and practices of strategic advantage integrating diverse disciplinary perspectives; analyses of internal and external environments of the firm; functional and business strategies for creating and managing value; value chain and value chain networks; corporate, international, and technological growth strategies; strategic organization and governance sensitive to ecosystem and stakeholder values. Applications to case studies, research project, and/or simulation.

MGMT 4920. Future of Work and Management. Units: 3

Semester Prerequisite: Junior Standing. Quarter Prerequisite: Junior Standing

This course is designed to examine the wide variety of technological, economic, political, socio-cultural, and demographic trends that impact organizations, as well as national and global societies. It will focus on new business models, new categories of jobs, new management mindsets, and shifts in requisite skills, knowledge, and abilities as organizations and industries undergo transformation.

MGMT 4950. Managing Strategy in Dynamic Environments. Units: 3

This course focuses on the practical application of strategic management theories and practices for achieving sustainable competitive advantage by integrating diverse disciplinary perspectives. Students will conduct real-world analyses of external business environments and formulate effective business strategies, including corporate, global, and technological growth strategies. They will learn to implement these strategies through strategic organization, legal governance, and responsible sustainable management that is sensitive to ecosystem and stakeholder values. Practical applications include case studies, research projects, and simulations, providing hands-on experience in strategic business management.

MGMT 5040. Technological Innovation Management. Units: 3

Semester Prerequisite: Junior Standing

This course focuses on the strategic importance of technological innovation, including types and patterns of innovation, standards battles, and design dominance. The class develops skills that help students formulate, organize, and implement technological innovation strategies. Students also gain expertise in critically evaluating, integrating, and leading decisions related to launching and managing technological innovations.

MGMT 5050. Managing Across Borders. Units: 3

Quarter Prerequisite: MGMT 302 or PSYC 302

Identification and investigation of the diverse factors and actors that are important to the success of an organization planning or managing in an international setting, Balancing of local responsiveness and global integration, and sustainable and responsible decision-making skills across borders and cultures are emphasized. Formerly MGMT 4050. Equivalent to MGMT 6500; credit may not be received for both.

MGMT 5590. Leading Teams in Organizations. Units: 3

Semester Prerequisite: MGMT 3020

This course engages students in an in-depth exploration of research and theory on group processes from disciplines of psychology, communication, and organizational studies. This course critically analyzes group dynamics with particular attention to the communication processes that enable (or hinder) innovation, decision-making, leadership and conflict resolution in diverse and distributed contexts. Engaged learning projects will be used in this course. Formerly offered as MGMT4590.

MGMT 5755. Internship. Unit: 1

Semester Prerequisite: Consent of college internship coordinator. Quarter Prerequisite: senior standing preferred; consent of instructor and the departments internship coordinator

Supervised work and study in private or public organizations. May be repeated for credit. A total of six units of Jack H. Brown College of Business and Public Administration 5753 or 5755 courses may be applied toward graduation. Graded credit/no credit.

MGMT 5915. Contemporary Topics in Management. Unit: 1

Analysis and discussion of selected topics relevant to managing effectively in the contemporary and dynamic business world. May be repeated for credit as topics change.

MGMT 5930. Contemporary Topics in Management. Units: 3

Analysis and discussion of selected topics relevant to managing effectively in the contemporary and dynamic business world. Formerly offered as MGMT 590C. May be repeated for credit as topics change.

MGMT 5951. Independent Study. Unit: 1

Semester Prerequisite: Junior status, or graduate status

Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Course is cross-listed across different departments within the college.

MGMT 5952. Independent Study. Units: 2

Semester Prerequisite: Junior status, or graduate status

Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Formerly offered as 595B. Course is cross-listed across different departments within the college.

MGMT 5953. Independent Study. Units: 3

Semester Prerequisite: Junior status, or graduate status

Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Formerly offered as 595D. Course is cross-listed across different departments within the college.

MGMT 5955. Independent Study. Unit: 1

Semester Prerequisite: Junior status, or graduate status
Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Course is cross-listed across different departments within the college.

MGMT 6010. Organization Theory and Behavior. Units: 3

A critical analysis of theories for viewing organizations and an examination of the common models for understanding human behavior, including executive behavior, within the constraints of a complex social system. Formerly offered as MGMT 601.

MGMT 6300. Legal and ethical aspects of industrial management. Units: 3

This course is designed to provide a review of the legal system including how to find legal cases and statutes. It would also include contracts, intellectual property (trademarks, patents, copyright, and trade secrets), regulations (state and federal), sustainability, employment law and corporations. In addition, the course will provide a background on white collar and cybercrime.

MGMT 6550. Leadership as Art and Science. Units: 3

Semester Prerequisite: MGMT 6010. Quarter Prerequisite: MGMT 601
An overview of leadership emphasizing an understanding of the empirical research on classical and contemporary theories in the fields of leadership and followership and an application of theories designed to enhance employee well-being and organizational effectiveness. Formerly offered as MGMT 655.

MGMT 6755. Internship. Unit: 1

Semester Prerequisite: Consent of college internship coordinator. Quarter Prerequisite: senior standing preferred; consent of instructor and the departments internship coordinator
Supervised work and study in private or public organizations. May be repeated for credit. A total of six units of Jack H. Brown College of Business and Public Administration 5753 or 5755 courses may be applied toward graduation. Graded credit/no credit.

MGMT 6850. Strategic Management. Units: 3

Using fundamental concepts of strategy, this course examines an organization in the globalization context from the perspective of different stakeholders who together share the overall responsibility for the performance of the firm. Within the lens of PRME (Principles of Responsible Management Education) from the United Nations, the course is an innovative educational survey of selected topics from the field of strategy based on scholarly research and global practices that exemplify or deviate from the principles of responsible management. Formerly offered as MGMT 685.

MGMT 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MGMT 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MGMT 6992. Continuous Enrollment for Graduate Candidacy Standing. Units: 2

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MGMT 6993. Continuous Enrollment for Graduate Candidacy Standing. Units: 3

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MGMT 6994. Continuous Enrollment for Graduate Candidacy Standing. Units: 4

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MGMT 6995. Continuous Enrollment for Graduate Candidacy Standing. Units: 5

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MGMT 6996. Continuous Enrollment for Graduate Candidacy Standing. Units: 6

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

Military Science (MILS)

Courses

MILS 1000. Leadership Laboratory. Unit: 1

Practicum in those skills taught in the classroom during other military science classes in the semester. To include Small Unit Operations, such as patrolling, air mobile operations, rappelling and weapons qualification. Some training is conducted on weekends. This course is only open to enrolled Army ROTC cadets. The course must be taken each semester the student is enrolled in the Military Science program. Formerly offered as MILS 100.

MILS 1151. Basic Military Skills I. Units: 3

Introduction to the role of the officer, the noncommissioned officer, and organization of the total Army. Formerly offered as MILS 151.

MILS 1152. Basic Military Skills II. Units: 3

Quarter Prerequisite: MILS 151 or consent of instructor

A continuation of basic military skills. Formerly offered as MILS 152.

MILS 2251. Leadership and Management I. Units: 3

Quarter Prerequisite: MILS 151, MILS 152, and MILS 153 or consent of instructor

Introduction to leadership and management which develops technical skills that must be learned in order to perform as a leader. Students master technical aspects that are specific to the military profession. Formerly offered as MILS 251.

MILS 2252. Leadership and Management II. Units: 3

Quarter Prerequisite: MILS 251 or consent of instructor

Continuation of leadership and management skills. Formerly offered as MILS 252.

MILS 2260. ROTC Basic Camp. Units: 2

Quarter Prerequisite: consent of Military Science Department advisor

ROTC Basic Camp is a six week course at FT Knox, KY. The basic camp offers students with no prior military training, or ROTC classes, the chance to enter the ROTC advanced program, if the student has two or more years of undergraduate or graduate study remaining. It is comparable to the first two years of the ROTC program. Formerly offered as MILS 260.

MILS 3351. Small Unit Operations I. Units: 3

Quarter Prerequisite: consent of instructor
Current tactical doctrine as applied to small unit operations. Formerly offered as MILS 351.

MILS 3352. Small Unit Operations II. Units: 3

Quarter Prerequisite: MILS 351
Continuation of current tactical doctrine as applied to small unit operations, with special attention to the leaders role. Formerly offered as MILS 352.

MILS 4451. Military Law. Units: 3

Quarter Prerequisite: consent of instructor
Military justice system, including a history of military law, philosophy and structure of the military justice system, courts-martial and alternatives to courts-martial. Formerly offered as MILS 451.

MILS 4452. Contemporary Military Policy. Units: 3

Quarter Prerequisite: consent of instructor
Contemporary military policy and related subjects of topical military interest, including personal ethics, relevant to the training of junior-level officers. Formerly offered as MILS 452.

MILS 5585. American Military History. Units: 2

Quarter Prerequisite: completion of all advanced military science courses and consent of instructor
A directed reading and research course in American Military History. Oriented towards a students transition from cadet to commissioned officer. May be repeated twice for credit. Formerly offered as MILS 595.

Marketing (MKTG)

Courses

MKTG 1600. Restaurant Management. Units: 3

The principles of restaurant management and foodservice operations with particular attention to safety, sanitation, hygiene and cleanliness standards. Topics include menu planning, concept development, food production methods, procurement, budgeting and cost control analysis. This course will teach and assess the Food Protection Manager certification exam. Offered as HOSM 1600 and MKTG 1600, students may not receive credit for both.

MKTG 2500. Introduction to Hospitality and Tourism. Units: 3

This course includes the management of hotels, clubs, casinos, and resort properties in the areas of operations, customer service delivery, technology, property maintenance, and quality assurance. Front desk, rooms division, human resources, concierge, banquet, facilities, sales and marketing, and other departments will be reviewed. Tourism topics include destination marketing, itinerary planning, global travel, and intercultural communications that are the prerequisites for the annual study abroad to Italy during spring break. Offered as HOSM 2500 and MKTG 2500, students may not receive credit for both.

MKTG 3050. Marketing Principles. Units: 3

Quarter Prerequisite: Junior standing
The goal of this course is to build a basic framework to enable students to evaluate, describe, and design marketing activities with practical insights into the real world. An introduction to the controllable elements of the marketing mix that include product, pricing, promotion and place (distribution) as well as the uncontrollable elements that include consumer and industrial buying behavior, economic, technological and regulatory trends. Students will be introduced to the language of marketing such as SWOT, segmentation, targeting, and positioning. Formerly offered as MKTG 305.

MKTG 3160. Research Methods. Units: 3

Research as an activity of information gathering, analysis and interpretation for input into organizational decision making. Students will gain the skill-set to define the proper research problem, develop an appropriate research design, effectively sample the right population, and collect and analyze the data (secondary and/or primary) required to enable managers to make better decisions. Different methods of data collection (e.g. survey, observation, experiments, qualitative methods), tools utilized for data collection and analysis, and the type of data created will be covered.

MKTG 3300. Immersive Storytelling, Product Design, and Integrated Marketing Communication. Units: 3

This course explores how to use immersive storytelling theories and technologies, such as virtual reality, augmented reality, and mixed reality, to design and implement engaging and memorable product and/or service experiences that connect with customers on a deeper level. Students will also learn how to integrate immersive storytelling campaigns into their overall marketing strategy, as well as the fundamental principles of marketing: including market segmentation, targeting, positioning, and the marketing mix. Course equivalent to CAL 3030; credit may not be awarded for both.

MKTG 4100. Consumer Behavior. Units: 3

Semester Prerequisite: MKTG 3050 and MKTG 3160
An examination of factors that affect consumers during the pre-purchase, purchase, and post-purchase decision-making process. An analysis of the individual and aggregate market behavior of customers and the use of theoretical and empirical customer information in developing marketing policy and strategy through project-based learning. Factors that affect consumers' perceptions, attitudes and decision making will be introduced and discussed. Formerly offered as MKTG 410.

MKTG 4160. Marketing Research. Units: 3

Semester Prerequisite: MKTG 3050 and MKTG 3160. Quarter Prerequisite: MKTG 305
In this course, students will learn how to develop a marketing research plan, collect the data (secondary and/or primary), analyze and interpret the data, and present the results, in order to enable managers to make better decisions. Fundamental statistical analysis techniques commonly used in marketing research, such as frequency analysis, hypothesis testing, analysis of variance, correlation, and regression will be taught. The course will also feature many examples of contemporary marketing research applications. Formerly offered as MKTG 416. Materials fee required.

MKTG 4200. Marketing Communications. Units: 3

Semester Prerequisite: MKTG 3050 and MKTG 3160. Quarter Prerequisite: MKTG 305 and the upper-division writing requirement
An integrated approach to planning and creating the firm's total marketing communications program, primarily advertising, sales promotion, public relations and social media. Surveys the entire field of promotion in its social and management context and develops the creative approach, strategy, and tactics necessary to realize the objectives of the marketing program. Emphasizes application of concepts through project-based learning incorporating quantitative and qualitative research techniques, industry analysis, and graphic design, in developing and evaluating communication plans. Formerly offered as MKTG 420.

MKTG 4300. Professional Selling and Sales Management. Units: 3

Semester Prerequisite: MKTG 3050. Quarter Prerequisite: MKTG 305 and the upper division writing requirement
Students will learn about the sales process, the buying process, relationship selling, prospecting, sales call planning, communication, negotiating, and closing sales as well as how to motivate, compensate, and train sales people. Develops interpersonal communication skills through role-playing and other selling techniques in the selling or products and services. Skills in prospecting, relationship building analysis, sales demonstrations, sales negotiations, and closing of sales will be taught. Emphasis will be on personal selling techniques, sales management, and best practices in professional selling. Formerly offered as MKTG 430.

MKTG 4460. Integrated Marketing Communications. Units: 3

Semester Prerequisite: MKTG 4200. Quarter Prerequisite: MKTG 420
An experiential projects course focusing on the development of an integrated marketing communications campaign for a client's regional or national product or service. Formerly offered as MTKG 446.

MKTG 4500. Hotel Operations Tactics and Strategies. Units: 3

Quarter Prerequisite: No prerequisites
Hotel Operations Tactics and Strategies (HOTS) is a business management simulation to operate a large hotel where students develop technical and decision-making skills to increase market share, maximize revenues and increase profitability. A hotel's financial results depend on its ability to construct, promote and deliver a competitive price/value proposition to the marketplace. Student teams compete in a virtual environment that leads to critical thinking outcomes in the areas of operations, communications, revenue management, strategic planning, teamwork and career readiness. Course offered as HOSM 4500 and MKTG 4500; credit may not be awarded for both.

MKTG 4600. Retailing and Ecommerce. Units: 3

Semester Prerequisite: MKTG 3050. Quarter Prerequisite: MKTG 305
Development, organization and management of retail institutions. Emphasis is on brick & mortar and e-commerce operations and include merchandise planning, control of budgets, human resources planning, pricing and customer service. Students develop a retail strategy mix for a retailer within the context of today's retail practices. Formerly offered as MTKG 460.

MKTG 4700. International Marketing. Units: 3

Semester Prerequisite: MKTG 3050
Development of international marketing strategies and programs for the determination of objectives and methods of organization through execution of research, advertising, pricing, distribution, financing, and human resource management activities. Emphasis on the design of optimal strategies under varying physical, economic, political, social and cultural environments and specific marketing situations. Satisfies G designation.

MKTG 4760. Strategic Issues in International Business. Units: 3

Semester Prerequisite: MKTG 4700. Prerequisite: MKTG 470 and MGMT 405
An examination of strategic issues in conducting business across national boundaries. Development and implementation of strategic and tactical decisions for companies and brands drawing upon research, analysis, and strategic marketing skills to develop actionable plans that address critical challenges faced by organizations.

MKTG 4800. Sales and Negotiations. Units: 3

Semester Prerequisite: MKTG 3050
This course is designed to equip students with essential skills in selling and negotiating, focusing on practical application in real-world scenarios. Students will learn about the selling process, customer relationships, interest-based negotiation, and effective and persuasive communication. Skills in interpersonal and intercultural communications, problem-solving, negotiation preparation, reaching agreements, and the closing of sales will be taught. Emphasis will be on personal selling techniques as well as best practices in professional negotiations.

MKTG 4960. Strategic Marketing Planning. Units: 3

Semester Prerequisite: MKTG 4100 and MKTG 4160. Quarter Prerequisite: MKTG 410 and MTKG 416
Provides an overview of the role of sustainability in marketing strategy. Emphasis is on the use of the triple bottom line perspective to cast sustainability as the simultaneous pursuit of financial, social/relational, and environmental performance. Development and implementation of strategic and tactical decisions for companies and brands drawing upon research, analysis, and strategic marketing skills to develop actionable plans that address critical marketing challenges faced by organizations. Formerly offered as MKTG 496.

MKTG 5160. Marketing Data Analytics. Units: 3

Semester Prerequisite: MKTG 4160. Quarter Prerequisite: MKTG 416
Students will be able to identify, evaluate, and capture business analytic opportunities that create value. In addition, students will learn basic analytics methods to analyze big data (large data sets). Students will learn how to develop new insights based on business performance data and statistical methods. Students will learn how data analysts describe, predict, and inform business decisions, and they will develop data literacy and an analytic mindset that will help them make strategic decisions based on data.

MKTG 5200. Advanced Marketing Communication. Units: 3

Semester Prerequisite: MKTG 3050 or MKTG 6050. Quarter Prerequisite: MKTG 305 or MKTG 605

Management of the marketing communication function with emphasis on the integration and coordination of its activities. Advertising, direct marketing, personal selling, public relations, sales promotion, and digital strategies are mastered with consideration given to global, ethical, and technology-related issues. Includes development of an integrated marketing communication plan. Formerly offered as MKTG 520.

MKTG 5250. Sports and Entertainment Marketing. Units: 3

Semester Prerequisite: Must have completed MKTG 3050 or MKTG 6050. Quarter Prerequisite: MKTG 305 or MKTG 605

The application of marketing to sports and entertainment products and services with an emphasis on the marketing concepts most relevant to the industry, such as sponsorship, endorsement, licensing, etc. Students will apply these concepts by developing and presenting a strategic marketing plans for a sports or entertainment organization. The plan will include a situational analysis, SWOT analysis, mission statement, positioning statement, and marketing mix recommendations. Formerly offered as MKTG 525.

MKTG 5300. Meetings and Event Planning. Units: 3

The process of planning, developing, and coordinating a variety of meetings and events in hotels, clubs, convention centers, trade shows, and sports and entertainment venues. Topics include forecasting revenues, budget preparation, controlling expenses, contract negotiations, vendor selection, and supervising event personnel. Course offered as HOSM 5300 and MKTG 5300; credit may not be awarded for both.

MKTG 5400. Digital Marketing. Units: 3

Semester Prerequisite: MKTG 3050, or MKTG 6050, or instructor approval

Content emphasizes a hands-on immersion into e-commerce, project management, procurement, and social media, how this technology impacts the marketing mix and effective and efficient marketing strategies. Topics focus on applications, innovations, and future direction in marketing practice and includes application of content in marketing and communications planning. Formerly MKTG 4750.

MKTG 5500. Advanced Sports Marketing Planning and Strategy. Units: 3

Semester Prerequisite: MKTG 5250. Quarter Prerequisite: MKTG 525

An integrative approach to strategic sports marketing management providing theoretical and practical aspects of marketing management in the sports industry. Topics include the planning, design and execution of a comprehensive situation analysis, identification and evaluation of strategic marketing alternatives, and the implementation of marketing plans and programs. Formerly offered as MKTG 550.

MKTG 5550. Advanced Entertainment Marketing Planning and Strategy. Units: 3

Semester Prerequisite: MKTG 5250. Quarter Prerequisite: MKTG 525

An integrative approach to strategic entertainment marketing management providing theoretical and practical aspects of marketing management in the entertainment industry. Topics include the planning, design and execution of a comprehensive situation analysis, identification and evaluation of strategic marketing alternatives, and the implementation of marketing plans and programs. Formerly offered as MKTG 555.

MKTG 5600. Experiential Marketing. Units: 3

Semester Prerequisite: MKTG 3050 or MKTG 6050. Quarter Prerequisite: MKTG 305 or MKTG 605

The successful marketing of services and the delivery of excellent service are critical elements in the achievement of customer satisfaction and the long-term success of an organization. In this regard, service quality and its measurement will be emphasized, as will the link between service quality and customer satisfaction. This course will also cover the application of the principles of marketing to the marketing of services as well as in-depth understanding of the broader role of service excellence for both "pure" service organizations and organizations that offer a mix of goods and services. Formerly offered as MKTG 560.

MKTG 5700. Hospitality Operations Management. Units: 3

Quarter Prerequisite: MKTG 305 or MKTG 605

Students will have an opportunity to become acquainted with the social, economic and environmental context within which the hospitality industry operates to understand the structure, nature and operating characteristics of the different sectors of the hospitality industry such as food service, lodging and tourism. This introductory course will explore the various functions of management and their interrelationships with other key concerns of managers such as marketing, finance and human resource management. Additionally, the course emphasizes quality assurance, guest satisfaction and process improvement. The goal of this course is to help students develop capable minds to function as successful managers and leaders for the benefit of employees, customers, and stakeholders of the organization. Students will have opportunities to explore and evaluate their personal skills and qualities as they apply theories and case study scenarios to present and future operational assessment and trends.

MKTG 5720. Hotel Operations and Service Management. Unit: 1

Semester Prerequisite: MKTG 5700. Quarter Prerequisite: MKTG 570
Semester Corequisite: MKTG 5752

Hotel Management and operations to include room reservations, housekeeping, front desk management, concierge, sanitation, safety, security and bell stand. Rate and revenue management, forecasting, measuring performance, transient versus group displacement, service quality, pricing and inventory management, ethics. Formerly offered as MKTG 573.

MKTG 5730. Festival and Entertainment Management. Units: 3

Semester Prerequisite: MKTG 3050. Quarter Prerequisite: MKTG 525

Organization and administration of attraction-based events, focusing on scheduling, financing, budgeting, and revenue distribution, logistics, planning techniques, marketing, contracts and staging considerations.

MKTG 5740. Tribal Gaming: Cultural and Political Context. Units: 3

Semester Prerequisite: MKTG 5700. Quarter Prerequisite: MKTG 570

Social and political context of American Indian tribal gaming, political relationships between federal and tribal governments, contemporary examples of tribal gaming, sociocultural and economic forces leading to gaming as strategy for economic development, and responses by non-Indian communities to tribal gaming.

MKTG 5750. Hospitality Internship I. Unit: 1

Entry level experience in a hotel, restaurant, or related position at a university approved site with a focus on rotating through all departments in the organization. NOTE: Only students who have been approved for placement by internship coordinator may enroll in this course.

MKTG 5752. Hospitality Internship II. Units: 2

Quarter Prerequisite: MKTG 570

Food handler certification required for restaurant experience. Experience in a hotel, restaurant, tribal casino, or tourism site. Minimum of 75 hours of quality work at site required during semester in addition to completion of a project.

MKTG 5755. Internship. Unit: 1

Semester Prerequisite: Consent of college internship coordinator. Quarter Prerequisite: senior standing preferred; consent of instructor and the departments internship coordinator

Supervised work and study in private or public organizations. May be repeated for credit. A total of six units of Jack H. Brown College of Business and Public Administration 5753 or 5755 courses may be applied toward graduation. Graded credit/no credit.

MKTG 5915. Seminar in Marketing. Unit: 1

An intensive study of some phase of marketing to be developed by the instructor. May be repeated for credit as topics change.

MKTG 5930. Seminar in Marketing. Units: 3

An intensive study of some phase of marketing to be developed by the instructor. May be repeated for credit as topics change. Formerly offered as MKTG 590.

MKTG 5951. Independent Study. Unit: 1

Semester Prerequisite: Junior status, or graduate status

Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Course is cross-listed across different departments within the college.

MKTG 5952. Independent Study. Units: 2

Semester Prerequisite: Junior status, or graduate status

Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Formerly offered as 595B. Course is cross-listed across different departments within the college.

MKTG 5953. Independent Study. Units: 3

Semester Prerequisite: Junior status, or graduate status

Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Formerly offered as 595D. Course is cross-listed across different departments within the college.

MKTG 5955. Independent Study. Unit: 1

Semester Prerequisite: Junior status, or graduate status

Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Course is cross-listed across different departments within the college.

MKTG 6050. Marketing Management. Units: 3

An examination of managerial decision-making and problem-solving using the marketing mix and the activities it entails such as selling, advertising, pricing, consumer behavior, marketing research and channels of distribution. Formerly offered as MKTG 605.

MKTG 6100. Consumer and Organizational Buying Behavior. Units: 3

Semester Prerequisite: MKTG 6050. Quarter Prerequisite: MKTG 605

Influences on the purchasing behavior of individual consumers and organizational buyers. Use of theories, concepts and research findings in management and public policy decisions. Formerly offered as MKTG 610.

MKTG 6250. New Venture Product Development. Units: 3

Focuses on the development of new venture products using iterative and engineering-informed approaches. Students explore the process of conceptualization, prototyping, testing, and optimization, integrating market requirements with technical feasibility.

MKTG 6400. Advanced Marketing Research. Units: 3

Semester Prerequisite: MKTG 6050. Quarter Prerequisite: MKTG 605

Advanced study of current marketing research methods used to gather, analyze and transform data into information required for managerial decision-making. Includes qualitative and quantitative approaches to problem definition, research design, data collection and analysis, interpretation and presentation of research results. Requires use of statistical software packages. Formerly offered as MKTG 640.

MKTG 6500. E-Commerce. Units: 3

Semester Prerequisite: ADMN 6010 Data-Driven Decision Making, ADMN 6020 Advanced Managerial Communications

This course introduces e-commerce and offers an understanding of the skills and technology which are necessary for e-commerce. Students will learn about business models and strategies surrounding e-commerce including digital marketing, online payment systems, and privacy issues.

MKTG 6700. Global Marketing Strategies. Units: 3

Semester Prerequisite: MKTG 6050. Quarter Prerequisite: MKTG 605
Advanced marketing strategies for developing global markets. Includes the emerging changes in international markets and their impact on general marketing strategies. Formerly offered as MKTG 670.

MKTG 6755. Internship. Unit: 1

Semester Prerequisite: Consent of college internship coordinator. Quarter Prerequisite: senior standing preferred; consent of instructor and the departments internship coordinator
Supervised work and study in private or public organizations. May be repeated for credit. A total of six units of Jack H. Brown College of Business and Public Administration 5753 or 5755 courses may be applied toward graduation. Graded credit/no credit.

MKTG 6900. Marketing Strategy. Units: 3

Semester Prerequisite: MKTG 6050, MKTG 6100, and MKTG 6400. Quarter Prerequisite: MKTG 605, MKTG 610, and MKTG 640
A strategy planning approach to marketing management from conceptual and applications perspectives. Focus is on the strategic decision-making process supported by self-analysis and external analysis. Legal, ethical and international aspects are also considered. Formerly offered as MKTG 696.

MKTG 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MKTG 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MKTG 6992. Continuous Enrollment for Graduate Candidacy Standing. Units: 2

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MKTG 6993. Continuous Enrollment for Graduate Candidacy Standing. Units: 3

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MKTG 6994. Continuous Enrollment for Graduate Candidacy Standing. Units: 4

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MKTG 6995. Continuous Enrollment for Graduate Candidacy Standing. Units: 5

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

MKTG 6996. Continuous Enrollment for Graduate Candidacy Standing. Units: 6

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

Physician Assistant (MSPA)

Courses

MSPA 6100. Foundations of Clinical Medicine. Units: 4

Semester Prerequisite: Admission to the MSPA Program

This integrated course provides a foundational knowledge of physiology, microbiology, and the genetics of health and disease across all organ systems. It emphasizes the scientific principles essential for the Clinical Medicine course series, advanced clinical courses, and professional practice. Learners will explore the intricate workings of the human body, including cellular processes, organ function, and the interplay between systems for homeostasis. The course examines the impact of infectious diseases, including microorganisms, pathogenic mechanisms, transmission, and host responses. It also delves into human genetics, inheritance patterns, gene expression, and factors contributing to disease development. Through lectures, interactive discussions, and case studies, learners develop critical thinking skills for applying knowledge to clinical scenarios. Graded A, B, C, F. Departmental consent required.

MSPA 6110. Medical Anatomy. Units: 4

Semester Prerequisite: Admission to the MSPA Program

This course provides a regionally focused study of human anatomy, combining didactic and laboratory instruction. It emphasizes clinical applications by correlating virtual dissection, diagnostic studies, and physical examination with anatomical concepts to prepare learners for advanced clinical courses and professional practice. Through interactive activities and a regionally based approach, learners will develop a comprehensive knowledge of the structure and function of the human body. State-of-the-art computer-based learning and imaging techniques enhance spatial ability and promote three-dimensional thinking. Topics covered include integumentary, muscular, skeletal, endocrine, gastrointestinal, renal/urinary, vascular/lymphatic, respiratory, neurological, and gonadal systems. Three hours lecture and three hours lab. Graded A, B, C, F. Departmental consent required.

MSPA 6120. Communication in Healthcare. Units: 2

Semester Prerequisite: Admission to the MSPA Program

This course establishes a strong basis for future healthcare providers to communicate effectively with patients, caregivers, and members of the interprofessional team. Learners will gain a foundation for patient-centered communication, adapting to evolving healthcare communication needs. Learners will also develop strategies to foster rapport, active listening, and empathy in patient and caregiver interactions, while seamlessly integrating cultural competency and cultural humility training. The course covers vital topics in medical interviewing, written documentation, oral presentation, and telemedicine, with emphasis on patient privacy and confidentiality. Graded A, B, C, F. Departmental consent required.

MSPA 6130. Laboratory Medicine and Diagnostics. Units: 2

Semester Prerequisite: Admission to the MSPA Program

This course equips learners with comprehensive knowledge of laboratory and diagnostic medicine, including the essential skills needed to select and interpret basic clinical tests and diagnostic imaging procedures. Through interactive lectures and case-based discussions, learners will develop critical thinking skills to effectively utilize laboratory tests in the diagnostic process. Learners will examine the reference ranges, typical findings, and critical thresholds for various laboratory tests and diagnostic imaging. The course also examines the ethical and legal considerations of informed consent related to laboratory and diagnostic studies. Graded A, B, C, F. Departmental consent required.

MSPA 6140. Evidence Based Medicine. Units: 3

Semester Prerequisite: Admission to the MSPA Program

The course equips learners to critically evaluate and apply scientific evidence, employ biostatistical methods, and navigate ethical considerations in clinical decision-making. Through interactive lectures, case discussions, and practical exercises, learners will explore the fundamental principles of evidence-based medicine, including study design, research methodology, critical appraisal, and application of findings to patient care. Emphasis will be on integrating research evidence with clinical expertise and patient values to deliver optimal, culturally sensitive, patient-centered care. The course serves as a foundation for Evidence Based Medicine and builds upon foundational knowledge of research methods and biostatistics. It is designed to prepare physician assistant (PA) learners for advanced clinical courses and professional practice. Graded A, B, C, F. Departmental consent required.

MSPA 6150. Community Health and Service. Units: 2

Semester Prerequisite: Admission to the MSPA Program
This course introduces concepts of public and community health through didactic instruction and community service projects. Critical topics to be covered include health disparities, cultural competency/humility, and health literacy, as well as the basics of patient education and counseling. To complement classroom instruction, learners are provided service opportunities within the community. The course focuses on addressing the local community's needs and reducing health disparities while developing cultural sensitivity to care for diverse populations. Graded A, B, C, F. Departmental consent required.

MSPA 6160. Professional Development and Practice I. Unit: 1

Semester Prerequisite: Admission to the MSPA Program
This first course in a four-part series covers topics related to PA professional practice, including the profession's historical development, PA professional organizations, practice laws and regulations, medical ethics, and the business of healthcare. The course series also promotes professional development through the growth of professional behaviors and leadership skills essential for effective teamwork and collaboration as an interprofessional team. Graded A, B, C, F. Departmental consent required.

MSPA 6161. Professional Development and Practice II. Unit: 1

Semester Prerequisite: MSPA 6160
This second course in a four-part series covers topics related to PA professional practice, including the profession's historical development, PA professional organizations, practice laws and regulations, medical ethics, and the business of healthcare. The course series also promotes professional development through the growth of professional behaviors and leadership skills essential for effective teamwork and collaboration as an interprofessional team. Graded A, B, C, F. Departmental consent required.

MSPA 6162. Professional Development and Practice III. Unit: 1

Semester Prerequisite: MSPA 6161
This third course in a four-part series covers topics related to PA professional practice, including the profession's historical development, PA professional organizations, practice laws and regulations, medical ethics, and the business of healthcare. The course series also promotes professional development through the growth of professional behaviors and leadership skills essential for effective teamwork and collaboration as an interprofessional team. Graded A, B, C, F. Departmental consent required.

MSPA 6163. Professional Development and Practice IV. Unit: 1

Semester Prerequisite: MSPA 6162
This final course in a four-part series covers topics related to PA professional practice, including the profession's historical development, PA professional organizations, practice laws and regulations, medical ethics, and the business of healthcare. The course series also promotes professional development through the growth of professional behaviors and leadership skills essential for effective teamwork and collaboration as an interprofessional team. Graded A, B, C, F. Departmental consent required.

MSPA 6200. Clinical Medicine I. Units: 6

Semester Prerequisite: MSPA 6100
This first course in a three-part course series provides a systems-based approach to foundational clinical medicine across the lifespan by exploring human diseases, clinical conditions, and pathophysiology. Learners will integrate basic science into etiology, pathogenesis, clinical presentation, diagnosis, therapeutic interventions, and follow up. Learners will also consider the social determinants of health and other patient factors when developing care plans for diverse populations. Graded A, B, C, F. Departmental consent required.

MSPA 6201. Clinical Medicine II. Units: 6

Semester Prerequisite: MSPA 6200
This second course in a three-part course series provides a systems-based approach to foundational clinical medicine across the lifespan by exploring human diseases, clinical conditions, and pathophysiology. Learners will integrate basic science into etiology, pathogenesis, clinical presentation, diagnosis, therapeutic interventions, and follow up. Learners will also consider the social determinants of health and other patient factors when developing care plans for diverse populations. Graded A, B, C, F. Departmental consent required.

MSPA 6202. Clinical Medicine III. Units: 6

Semester Prerequisite: MSPA 6201
This final course in a three-part course series provides a systems-based approach to foundational clinical medicine across the lifespan by exploring human diseases, clinical conditions, and pathophysiology. Learners will integrate basic science into etiology, pathogenesis, clinical presentation, diagnosis, therapeutic interventions, and follow up. Learners will also consider the social determinants of health and other patient factors when developing care plans for diverse populations. Graded A, B, C, F. Departmental consent required.

MSPA 6210. Pharmacotherapeutics I. Units: 3

Semester Prerequisite: MSPA 6100
This first course in a three-part course series provides a systems-based approach to pharmacotherapeutic management with a core focus on patient-centered care and a thoughtful consideration of the social determinants of health. The Pharmacotherapeutics course series parallels the Clinical Medicine course series by covering the major pharmacotherapeutic agents vital to each system. In addition to a systems-based approach, this first course introduces pharmacokinetic, pharmacodynamic, pharmacogenomics, and prescription writing. Graded A, B, C, F. Departmental consent required.

MSPA 6211. Pharmacotherapeutics II. Units: 3

Semester Prerequisite: MSPA 6210
This second course in a three-part course series provides a systems-based approach to pharmacotherapeutic management with a core focus on patient-centered care and a thoughtful consideration of the social determinants of health. The Pharmacotherapeutics course series parallels the Clinical Medicine course series by covering the major pharmacotherapeutic agents vital to each system. Graded A, B, C, F. Departmental consent required.

MSPA 6212. Pharmacotherapeutics III. Units: 3

Semester Prerequisite: MSPA 6211

This final course in a three-part course series provides a systems-based approach to pharmacotherapeutic management with a core focus on patient-centered care and a thoughtful consideration of the social determinants of health. The Pharmacotherapeutics course series parallels the Clinical Medicine course series by covering the major pharmacotherapeutic agents vital to each system. Graded A, B, C, F. Departmental consent required.

MSPA 6220. Patient Assessment and Communication I. Units: 3

Semester Prerequisite: MSPA 6120

This first course of a three-part course series combines a systems-based approach to physical examination with continued development of communication skills. The Patient Assessment and Communication course series works in conjunction with the Clinical Medicine course series to cover the physical examination techniques used for each system. This course will expand upon the written documentation and oral presentation presented in MSPA 6120 to enable learners to continue honing their communication skills. Learners will also adapt physical exam techniques as they apply to telemedicine visits. Two hours lecture and three hours lab. Graded A, B, C, F. Departmental consent required.

MSPA 6221. Patient Assessment and Communication II. Units: 3

Semester Prerequisite: MSPA 6220

This second course of a three-part course series combines a systems-based approach to physical examination with continued development of communication skills. The Patient Assessment and Communication course series works in conjunction with the Clinical Medicine course series to cover the physical examination techniques used for each system. This course will expand upon the written documentation and oral presentation presented in MSPA 6120 to enable learners to continue honing their communication skills. Learners will also adapt physical exam techniques as they apply to telemedicine visits. Two hours lecture and three hours lab. Graded A, B, C, F. Departmental consent required.

MSPA 6222. Patient Assessment and Communication III. Units: 3

Semester Prerequisite: MSPA 6221

This final course of a three-part course series combines a systems-based approach to physical examination with continued development of communication skills. The Patient Assessment and Communication course series works in conjunction with the Clinical Medicine course series to cover the physical examination techniques used for each system. This course will expand upon the written documentation and oral presentation presented in MSPA 6120 to enable learners to continue honing their communication skills. Learners will also adapt physical exam techniques as they apply to telemedicine visits. Two hours lecture and three hours lab. Graded A, B, C, F. Departmental consent required.

MSPA 6230. Clinical and Diagnostic Skills I. Units: 4

Semester Prerequisite: MSPA 6130

This first course in a three-part course series provides a systems-based approach to laboratory medicine, diagnostic studies, and clinical procedures. The course series includes a laboratory component for learners to develop their clinical and technical skills for performing common clinical procedures. The course series integrates pillars of patient and provider safety with best practices to ensure that learners are not only skilled, but also compassionate and accountable. Point-of-Care Ultrasound (POCUS) will also be implemented throughout the course series within applicable systems. Three hours lecture and three hours lab. Graded A, B, C, F. Departmental consent required.

MSPA 6231. Clinical and Diagnostic Skills II. Units: 4

Semester Prerequisite: MSPA 6230

This second course in a three-part course series provides a systems-based approach to laboratory medicine, diagnostic studies, and clinical procedures. The course series includes a laboratory component for learners to develop their clinical and technical skills for performing common clinical procedures. The course series integrates pillars of patient and provider safety with best practices to ensure that learners are not only skilled, but also compassionate and accountable. Point-of-Care Ultrasound (POCUS) will also be implemented throughout the course series within applicable systems. Three hours lecture and three hours lab. Graded A, B, C, F. Departmental consent required.

MSPA 6232. Clinical and Diagnostic Skills III. Units: 4

Semester Prerequisite: MSPA 6231

This final course in a three-part course series provides a systems-based approach to laboratory medicine, diagnostic studies, and clinical procedures. The course series includes a laboratory component for learners to develop their clinical and technical skills for performing common clinical procedures. The course series integrates pillars of patient and provider safety with best practices to ensure that learners are not only skilled, but also compassionate and accountable. Point-of-Care Ultrasound (POCUS) will also be implemented throughout the course series within applicable systems. Two hours lecture and three hours lab. Graded A, B, C, F. Departmental consent required.

MSPA 6240. Clinical Reasoning I. Unit: 1

This first course in a three-part course series promotes the integration of clinical knowledge, technical skills, and evidence-based medicine for effective and cohesive patient care. The course series advances the learner's clinical reasoning and problem-solving skills through interprofessional education, case-based learning, and simulated patient encounters. By integrating theory and practice, this course series prepares learners to make informed clinical decisions and work collaboratively within the interprofessional team. Graded A, B, C, F. Departmental consent required.

MSPA 6241. Clinical Reasoning II. Unit: 1

Semester Prerequisite: MSPA 6240

This second course in a three-part course series promotes the integration of clinical knowledge, technical skills, and evidence-based medicine for effective and cohesive patient care. The course series advances the learner's clinical reasoning and problem-solving skills through interprofessional education, case-based learning, and simulated patient encounters. By integrating theory and practice, this course series prepares learners to make informed clinical decisions and work collaboratively within the interprofessional team. Graded A, B, C, F. Departmental consent required.

MSPA 6242. Clinical Reasoning III. Unit: 1

Semester Prerequisite: MSPA 6241

This final course in a three-part course series promotes the integration of clinical knowledge, technical skills, and evidence-based medicine for effective and cohesive patient care. The course series advances the learner's clinical reasoning and problem-solving skills through interprofessional education, case-based learning, and simulated patient encounters. By integrating theory and practice, this course series prepares learners to make informed clinical decisions and work collaboratively within the interprofessional team. Graded A, B, C, F. Department consent required.

MSPA 6250. Applied Community and Behavioral Health I. Units: 2

Semester Prerequisite: MSPA 6150

This first course in a three-part series further explores public and community health concepts, including topics related to social issues, behavioral health, and mental wellness. To complement classroom instruction, learners are provided clinical experiences within the community. By the conclusion of the course series, learners will develop foundation skills to provide equitable care by fostering professional behaviors, cultural humility, and consideration of the social determinants of health in preparation for clinical rotations. Graded A, B, C, F. Departmental consent required.

MSPA 6251. Applied Community and Behavioral Health II. Units: 2

Semester Prerequisite: MSPA 6250

This second course in a three-part series further explores public and community health concepts, including topics related to social issues, behavioral health, and mental wellness. To complement classroom instruction, learners are provided clinical experiences within the community. By the conclusion of the course series, learners will develop foundation skills to provide equitable care by fostering professional behaviors, cultural humility, and consideration of the social determinants of health in preparation for clinical rotations. Graded A, B, C, F. Departmental consent required.

MSPA 6252. Applied Community and Behavioral Health III. Unit: 1

Semester Prerequisite: MSPA 6251

This final course in a three-part series further explores public and community health concepts, including topics related to social issues, behavioral health, and mental wellness. To complement classroom instruction, learners are provided clinical experiences within the community. By the conclusion of the course series, learners will develop foundation skills to provide equitable care by fostering professional behaviors, cultural humility, and consideration of the social determinants of health in preparation for clinical rotations. Graded A, B, C, F. Departmental consent required.

MSPA 6400. Principles of Emergency Medicine and Surgery. Units: 2

The Principles of Emergency Medicine and Surgery course offers an intensive and comprehensive training program that integrates both emergency medicine and surgical skills. Learners will gain expertise in emergency triage and executing acute intervention, including basic and advanced life support. The course will explore pre-, intra-, and post-operative care for diverse surgical scenarios to hone critical thinking skills in a high-stress environment. This course combines didactic instruction, simulations, and dynamic discussions to support active learning and collaboration. One hour lecture and three hours lab. Graded A, B, C, F. Departmental consent required.

MSPA 6500. Transition to Practice I. Unit: 1

This first course in a three-part series prepares learners for the transition from learner to clinical practice through informative sessions, summative examination preparation activities, and a comprehensive PANCE review. Session topics include job interview preparation, contract negotiation, financial planning, and advanced PA professional practice issues. Graded A, B, C, F. Departmental consent required.

MSPA 6501. Transition to Practice II. Unit: 1

Semester Prerequisite: MSPA 6500

This second course in a three-part series prepares learners for the transition from learner to clinical practice through informative sessions, summative examination preparation activities, and a comprehensive PANCE review. Session topics include job interview preparation, contract negotiation, financial planning, and advanced PA professional practice issues. Graded A, B, C, F. Departmental consent required.

MSPA 6502. Transition to Practice III. Units: 3

Semester Prerequisite: MSPA 6501

This final course in a three-part series prepares learners for the transition from learner to clinical practice through informative sessions, summative examination preparation activities, and a comprehensive PANCE review. Session topics include job interview preparation, contract negotiation, financial planning, and advanced PA professional practice issues. Graded A, B, C, F. Departmental consent required.

MSPA 6800. Family Medicine Clinical Rotation. Units: 4

This four-week supervised clinical practice experience (SCPE), or clinical rotation, provides a comprehensive overview of Family Medicine practice. Building upon the didactic phase curriculum, learners will advance their clinical knowledge, clinical reasoning and problem solving, and clinical and technical skills within a supervised clinical setting. Learners will also refine their interpersonal and communication skills to create effective rapport with patients, caregivers, and the healthcare team. The Family Medicine SCPE prepares learners to provide equitable care by fostering professional behaviors, cultural humility, and a consideration of the social determinants of health. Graded A, B, C, F. Departmental consent required.

MSPA 6801. Emergency Medicine Clinical Rotation. Units: 4

This four-week supervised clinical practice experience (SCPE), or clinical rotation, provides a comprehensive overview of Emergency Medicine practice. Building upon the didactic phase curriculum, learners will advance their clinical knowledge, clinical reasoning and problem solving, and clinical and technical skills within a supervised clinical setting. Learners will also refine their interpersonal and communication skills to create effective rapport with patients, caregivers, and the healthcare team. The Emergency Medicine SCPE prepares learners to provide equitable care by fostering professional behaviors, cultural humility, and a consideration of the social determinants of health. Graded A, B, C, F. Departmental consent required.

MSPA 6802. Internal Medicine Clinical Rotation. Units: 4

This four-week supervised clinical practice experience (SCPE), or clinical rotation, provides a comprehensive overview of Internal Medicine practice. Building upon the didactic phase curriculum, learners will advance their clinical knowledge, clinical reasoning and problem solving, and clinical and technical skills within a supervised clinical setting. Learners will also refine their interpersonal and communication skills to create effective rapport with patients, caregivers, and the healthcare team. The Internal Medicine SCPE prepares learners to provide equitable care by fostering professional behaviors, cultural humility, and a consideration of the social determinants of health. Graded A, B, C, F. Departmental consent required.

MSPA 6803. Surgery Clinical Rotation. Units: 4

This four-week supervised clinical practice experience (SCPE), or clinical rotation, provides a comprehensive overview of Surgery. Building upon the didactic phase curriculum, learners will advance their clinical knowledge, clinical reasoning and problem solving, and clinical and technical skills within a supervised clinical setting. Learners will also refine their interpersonal and communication skills to create effective rapport with patients, caregivers, and the healthcare team. The Surgery SCPE prepares learners to provide equitable care by fostering professional behaviors, cultural humility, and consideration of the social determinants of health. Graded A, B, C, F. Departmental consent required.

MSPA 6804. Pediatrics Clinical Rotation. Units: 4

This four-week supervised clinical practice experience (SCPE), or clinical rotation, provides a comprehensive overview of Pediatric practice. Building upon the didactic phase curriculum, learners will advance their clinical knowledge, clinical reasoning and problem solving, and clinical and technical skills within a supervised clinical setting. Learners will also refine their interpersonal and communication skills to create effective rapport with patients, caregivers, and the healthcare team. The Pediatrics SCPE prepares learners to provide equitable care by fostering professional behaviors, cultural humility, and consideration of the social determinants of health. Graded A, B, C, F. Departmental consent required.

MSPA 6805. Women's Health Clinical Rotation. Units: 4

This four-week supervised clinical practice experience (SCPE), or clinical rotation, provides a comprehensive overview of Women's Health. Building upon the didactic phase curriculum, learners will advance their clinical knowledge, clinical reasoning and problem solving, and clinical and technical skills within a supervised clinical setting. Learners will also refine their interpersonal and communication skills to create effective rapport with patients, caregivers, and the healthcare team. The Women's Health SCPE prepares learners to provide equitable care by fostering professional behaviors, cultural humility, and consideration of the social determinants of health. Graded A, B, C, F. Consent required.

MSPA 6806. Behavioral and Mental Health Clinical Rotation. Units: 4

This four-week supervised clinical practice experience (SCPE), or clinical rotation, provides a comprehensive overview of Behavioral and Mental Health. Building upon the didactic phase curriculum, learners will advance their clinical knowledge, clinical reasoning and problem solving, and clinical and technical skills within a supervised clinical setting. Learners will also refine their interpersonal and communication skills to create effective rapport with patients, caregivers, and the healthcare team. The Behavioral and Mental Health SCPE prepares learners to provide equitable care by fostering professional behaviors, cultural humility, and consideration of the social determinants of health. Graded A, B, C, F. Departmental consent required.

MSPA 6807. Clinical Rotation Elective I. Units: 4

This four-week supervised clinical practice experience (SCPE), or clinical rotation, provides a comprehensive overview of selected Clinical Elective practice. Building upon the didactic phase curriculum, learners will advance their clinical knowledge, clinical reasoning and problem solving, and clinical and technical skills within a supervised clinical setting. Learners will also refine their interpersonal and communication skills to create effective rapport with patients, caregivers, and the healthcare team. The Clinical Elective SCPE I prepares learners to provide equitable care by fostering professional behaviors, cultural humility, and consideration of the social determinants of health. Graded A, B, C, F. Departmental consent required.

MSPA 6808. Clinical Rotation Elective II. Units: 4

This four-week supervised clinical practice experience (SCPE), or clinical rotation, provides a comprehensive overview of selected Clinical Elective practice. Building upon the didactic phase curriculum, learners will advance their clinical knowledge, clinical reasoning and problem solving, and clinical and technical skills within a supervised clinical setting. Learners will also refine their interpersonal and communication skills to create effective rapport with patients, caregivers, and the healthcare team. The Clinical Elective SCPE II prepares learners to provide equitable care by fostering professional behaviors, cultural humility, and consideration of the social determinants of health. Graded A, B, C, F. Departmental consent required.

MSPA 6809. Clinical Rotation Elective III. Units: 4

This four-week supervised clinical practice experience (SCPE), or clinical rotation, provides a comprehensive overview of selected Clinical Elective practice. Building upon the didactic phase curriculum, learners will advance their clinical knowledge, clinical reasoning and problem solving, and clinical and technical skills within a supervised clinical setting. Learners will also refine their interpersonal and communication skills to create effective rapport with patients, caregivers, and the healthcare team. The Clinical Elective SCPE III prepares learners to provide equitable care by fostering professional behaviors, cultural humility, and consideration of the social determinants of health. Graded A, B, C, F. Departmental consent required.

MSPA 6980. Comprehensive Examination. Units: 0

This culminating course is designed to assess the clinical and technical skills, medical knowledge, clinical reasoning and problem-solving skills, interpersonal skills, and professional behaviors acquired throughout the physician assistant (PA) program. This comprehensive and integrative written and practical examination evaluates the competency and preparedness of learners to function effectively as competent and compassionate healthcare providers ready to enter clinical practice. Graded A, B, C, F. Departmental consent required.

Music (MUS)

Courses

MUS 1000. Music Forum. Unit: 1

Weekly meeting of music majors, grouped by area. Music Forum allows students to perform their repertoire in front of their peers, as well as learn from visiting guest clinicians. Graded Credit/No credit. Repeatable for credit. Department consent required. Materials fee required.

MUS 1010. Beginning Piano I for Non-Music Majors. Unit: 1

Introductory piano course for non-music majors, no prerequisite required. Focus on orientation to the keyboard, note reading, and basic rhythm drills. Develop eye-hand coordination and finger, hand, body control. The selection of pieces includes elementary piano repertoire, popular songs, folk tunes, and simple piano ensemble music. Study of a first-year piano book. Total of 30 hours lecture and 15 hours of music laboratory. This course is the first class of the two-semester course sequence. May be taken 2 time for 2 units.

MUS 1020. Beginning Piano Course II for Non-Music Majors. Unit: 1

Semester Prerequisite: Completion of MUS 1010, Beginning Piano Course I for Non-Music Majors OR by instructor's permission
This course is the second piano course for non-music majors. The course continues to develop student's skills and coordination at the piano. Focus on the intermediate level of keyboard skills, note reading, and rhythm drills. Develop eye-hand coordination and finger, hand, body control. The selection of pieces includes intermediate piano repertoire, popular songs, folk tunes, and simple piano ensemble music. Study of a first-year (second-semester) piano book. Total of 30 hours lecture and 15 hours of music laboratory. This course (MUS 1020 BEG PIANO II) is the second class of the two-semester course sequence. May be taken up to two times for credit to strengthen fundamental skills.

MUS 1100. Fundamentals of Music Theory. Units: 3

An introduction to notation and fundamental theoretical elements of Western music: pitch, rhythm, form, and notation. Concepts include simple and compound meter, major and minor scales and keys, intervals, and diatonic chords. Credits may not be counted toward fulfilling the requirements of the music major. Formerly MUS 100.

MUS 1110. Basic Musicianship. Units: 2

Quarter Corequisite: MUS 100
Applied musicianship experience including sight-singing, solfege, and dictation, with both pitch and rhythm. Credits may not be counted toward fulfilling the requirements of the music major. Formerly MUS 101.

MUS 1270. History of Electronic Music. Units: 3

This introductory course examines significant moments in electronic music history through the composers, performers, and technologists who helped define it. In addition to developing an understanding of the compositional styles, technological developments and diverse histories of electronic music, students will gain experience reading, writing and engaging in critical discourse around topics in electronic music. Satisfies GE C2/3B, DI, G designations.

MUS 1390. Stretch applied music. Unit: 1

Semester Prerequisite: Placement audition and approval of music faculty
Semester Corequisite: MUS 1000
Forty-five minutes per week of applied instruction and 45 minutes of instruction for a group or small ensemble setting for a total of 90 minutes for music majors who need additional development to complete freshmen-level applied requirements. Graded Credit/No credit. May be taken twice for a total of 2 units. Must be taken concurrently with MUS 1000 (Music Forum). Formerly offered as MUS 80, 81, 82, 83, 84 or 85.

MUS 1400. Lower-Division Voice I. Unit: 1

Semester Prerequisite: placement audition and approval of music faculty. Quarter Corequisite: MUS 385, MUS 386. Quarter Prerequisite: placement audition and approval of music faculty
Semester Corequisite: MUS 1000, MUS 3850 or MUS 3860
Forty-five minutes of private instruction and 45 minutes of instruction in a group or small ensemble setting for a total of 90 minutes. Must be taken concurrently with either MUS 3850 or 3860 and MUS 1000 (Music Forum). May be repeated for a maximum of four units. Formerly offered as MUS 140.

MUS 1410. Lower-Division Keyboard I. Unit: 1

Semester Prerequisite: placement audition and approval of music faculty. Quarter Corequisite: One of the following MUS 380, MUS 381, MUS 385, MUS 386. Quarter Prerequisite: placement audition and approval of music faculty
Semester Corequisite: MUS 1000 and one of the following MUS 3800, MUS 3810, MUS 3850, MUS 3860
Forty-five minutes of private instruction and 45 minutes of instruction in a group or small ensemble setting for a total of 90 minutes. Must be taken concurrently with MUS 1000 and one of MUS 3800, MUS 3810, MUS 3850, or MUS 3860. May be repeated for a maximum of four units. Formerly offered as MUS 141A.

MUS 1420. Lower-Division String Instrument I. Unit: 1

Semester Prerequisite: placement audition and approval of music faculty. Quarter Corequisite: MUS 380. Quarter Prerequisite: placement audition and approval of music faculty
Semester Corequisite: MUS 1000, MUS 3800
Forty-five minutes of private instruction and 45 minutes of instruction in a group or small ensemble setting for a total of 90 minutes. May be repeated for a maximum of four units. Formerly offered as MUS 142A, MUS 142B, MUS 142C, MUS 142D, MUS 142E, MUS 142F.

MUS 1430. Lower-Division Wind Instrument I. Unit: 1

Semester Prerequisite: placement audition and approval of music faculty. Quarter Corequisite: MUS 381. Quarter Prerequisite: placement audition and approval of music faculty
Semester Corequisite: MUS 1000, MUS 3810
Forty-five minutes of private instruction and 45 minutes of instruction in a group or small ensemble setting for a total of 90 minutes. May be repeated for a maximum of four units. Formerly offered as MUS 143A, MUS 143B, MUS 143C, MUS 143D, MUS 143E.

MUS 1440. Lower-Division Brass Instrument I. Unit: 1

Semester Prerequisite: placement audition and approval of music faculty. Quarter Corequisite: MUS 381. Quarter Prerequisite: placement audition and approval of music faculty
Semester Corequisite: MUS 1000, MUS 3800 or MUS 3810
45 minutes of private instruction and 45 minutes of instruction in a group or small ensemble setting for a total of 90 minutes. Must be taken concurrently with MUS 1000 or one of MUS 3800 or MUS 3810. May be repeated for a maximum of four units. Formerly offered as MUS 144A, MUS 144B, MUS 144C, MUS 144D.

MUS 1450. Lower-Division Percussion Instrument I. Unit: 1

Semester Prerequisite: placement audition and approval of music faculty. Quarter Corequisite: MUS 381. Quarter Prerequisite: placement audition and approval of music faculty
Semester Corequisite: MUS 1000 and one of MUS 3800 or 3810
45 minutes of private instruction and 45 minutes of instruction in a group or small ensemble setting for a total of 90 minutes. Must be taken concurrently with MUS 1000 and one of MUS 3800 or MUS 3810. May be repeated for a maximum of four units. Formerly offered as MUS 145.

MUS 1800. Music Appreciation. Units: 3

Analysis and evaluation of musical performance through the study of the elements of music. Course surveys musical examples from varying genres, styles, time periods, and global traditions. Satisfies GE C1/3A, G designation.

MUS 1804. Rock and Roll: Justice and Society. Units: 3

Exploration of the evolution of rock and roll through a historical and socio-political context. The history of rock and roll and its emergence from Post World War II and its development through the second half of the 20th century through the present day are intertwined with the problematic issues of economics, race, gender, equality, politics, sexual orientation, class and culture. Satisfies GE C1/3A, DI designation. Course offered as CAL 1804 and MUS 1804, students may not receive credit for both.

MUS 1865. Global Hip Hop. Units: 3

Introduction to hip hop and rap in the United States and world-wide as a musical art, as a performance art, and as a tool for social justice. This course emphasizes the issues of race, gender, sexuality, and social mobility as they are addressed by or emerge from hip hop, exploring the genre's social and political impact through case studies in global hip hop traditions. Satisfies GE C1/3A, DI, G designations, Global Connections, Diversity and Social Justice, World Cultures and Diversity pathways.

MUS 1880. Asian American Music. Units: 3

This is a survey course focusing on the music of the Asia-Pacific diaspora. The course examines music creation and consumption as sociocultural practices in contexts including immigration, political mobilization, community building, and racism resistance. Lectures and assignments will cover diverse musical genres ranging from folk traditions, to Western classical forms, to contemporary popular idioms. Satisfies GE C2/3B; DI and G designations.

MUS 1969. LGBTQ+ Influences in Music. Units: 3

A study of the LGBTQ artistic contributions to include composing, performing, and producing art and popular music from the queer perspective. Topics include biographies, non-traditional artistic/industry trends challenging gender and sexuality, queer audience appeal of straight musicians, the current state of queer music studies, and the role of evolving inclusion of LGBTQ prominence in the future of the arts. This course will focus on contemporary literary critique, listening/viewing and discussion. Satisfies GE C1/3A, DI designation.

MUS 2000. Large Music Ensemble. Unit: 1

Lower-division course for participation in large music ensembles such as Symphony Orchestra, Symphonic Band, Jazz Ensemble, Concert Choir, and Chamber Singers. May taken four times for 4 units. Formerly offered as MUS 200.

MUS 2010. Class Strings. Units: 2

Students will study foundations of the string family (violin, viola, cello, and bass) and gain a firm foundation in the planning and instruction of a beginning strings class (homogeneous or heterogeneous) in the public/private school system. One hour seminar and two hours activity. Formerly MUS 201A.

MUS 2020. Class Woodwinds. Units: 2

Students will study foundations of the woodwind family (flute, oboe, clarinet, bassoon, and saxophone) and gain a firm foundation in the planning and instruction of a beginning woodwinds class (homogeneous or heterogeneous) in the public/private school system. One hour seminar and two hours activity. Formerly MUS 202A.

MUS 2030. Class Brass. Units: 2

Students will study foundations of the brass family (trumpet, horn, trombone, euphonium, and tuba) and gain a firm foundation in the planning and instruction of a beginning brass class (homogeneous or heterogeneous) in the public/private school system. One hour seminar and two hours of activity. Formerly MUS 203A.

MUS 2040. Class Percussion. Units: 2

Students will study foundations of the percussion family (mallet percussion, accessory percussion, battery percussion, marching percussion, and world percussion) and gain a firm foundation in the planning and instruction of a beginning percussion class (homogeneous or heterogeneous) in the public/private school system. One hour seminar and two hours of activity. Formerly MUS 204A.

MUS 2050. Class Guitar. Unit: 1

Students will study foundations of the guitar and gain a firm foundation in the planning and instruction of a beginning guitar class in the public/private school system. Formerly MUS 205A.

MUS 2060. Class Voice. Unit: 1

Learn how to sing with good vocal production, diction, breath support, peer coaching, and peer review. Formerly MUS 206.

MUS 2070. Introduction to Music Composition. Units: 2

Semester Prerequisite: MUS 2120 or consent of instructor
Students will study foundations of creating original music compositions in this project-based class. Topics include notation, idiomatic instrumental and vocal writing, harmony, form, and timbre.

MUS 2080. Vocal Music Literature. Unit: 1

A survey of major works of solo and ensemble vocal literature. Formerly MUS 208.

MUS 2090. Instrumental Music Literature. Units: 2

A survey of major works of solo and ensemble instrumental literature. Formerly offered as MUS 209.

MUS 2100. Conducting. Units: 2

Quarter Prerequisite: MUS 122 and MUS 123 or equivalent
Introduction to basic conducting techniques. A minimum of two additional hours per semester of guided field experience at an approved setting is required. Formerly MUS 210.

MUS 2110. Lyric Diction I. Units: 2

A study of the International Phonetic Alphabet and how it applies to the proper usage of lyric diction for the Italian and English vocal literature. Examples are drawn from standard sacred, operatic and song literature. Formerly offered as MUS 211A.

MUS 2111. Lyric Diction II. Units: 2

Semester Prerequisite: MUS 2110 or consent of instructor
A study of the International Phonetic Alphabet and how it applies to the proper usage of lyric diction for the French and German vocal literature. Examples drawn from standard operatic and song literature.

MUS 2112. Choral Music Literature. Units: 2

A survey of major works of ensemble vocal literature. Formerly MUS 212.

MUS 2114. Introduction to Music Education. Units: 2

Orientation to the field of music education. The course will cover history, philosophy, current practices and trends, music curricula, professional characteristics, and interpersonal skills required of music educators. Formerly MUS 214.

MUS 2120. Music Theory I: Diatonic Harmony. Units: 3

Quarter Prerequisite: MUS 100 and MUS 101, or department placement examination, or consent of instructor
Semester Corequisite: MUS 2125. Quarter Corequisite: MUS 121 and MUS 123 (1st half of course)
Introduction of basic concepts of diatonic harmony. Topics include major and minor scales, intervals, triads, seventh chords, inversions, Roman numeral analysis, and lead-sheet notation. First of four-semester music theory sequence. Formerly MUS 120. Consent required.

MUS 2125. Musicianship I. Units: 2

Quarter Prerequisite: MUS 101
Semester Corequisite: MUS 2120. Quarter Corequisite: MUS 120 and 122 (1st half of course)
Dictation and solfège sight-singing of melodies involving diatonic notes of the major, natural minor, harmonic minor, and melodic minor scales. Harmonic dictation involving common diatonic triads. Rhythmic dictation and sight-reading involving beat-division in simple and compound meter. Formerly MUS 121. Consent required.

MUS 2130. Music Theory II: Chromatic Harmony. Units: 3

Semester Prerequisite: MUS 2120 with a grade of "C-" or better
Semester Corequisite: MUS 2135
Continuation of 4-semester Western music theory sequence. Advanced tonal harmony and counterpoint, with an introduction to chromatic harmony. Topics covered include secondary dominants, secondary leading-tone chords, modulation to related keys, modal mixture, Neapolitan and Augmented 6th chords. Second of four-semester music theory sequence. Formerly MUS 122. Consent required.

MUS 2135. Musicianship II. Units: 2

Semester Prerequisite: MUS 2125 with a grade of "C" or better. Quarter Corequisite: MUS 122 (2nd half of course) and MUS 124 or MUS 122 (2nd half of course) and MUS 320 (old catalog). Quarter Prerequisite: MUS 121 and 123 (1st half of course)
Semester Corequisite: MUS 2130
Dictation and solfège sight-singing of melodies involving leaps within the dominant- and leading-tone seventh chords, and simple chromaticism; harmonic dictation involving diatonic seventh chords, secondary dominants, and simple modulation; rhythmic dictation and sight-reading involving subdivision in simple and compound meter. Formerly MUS 123.

MUS 2140. Music Theory III: Analysis of Musical Form. Units: 3

Semester Prerequisite: MUS 2130 with a grade of "C-" or better
Semester Corequisite: MUS 2145
Continuation of 4-semester Western music theory sequence. Advanced chromaticism, enharmonic modulations, and an introduction to formal analysis (including simple and rounded binary, ternary, sonata, rondo, fugue, 12-bar blues, ballad, and other song forms). Third of four-semester music theory sequence. Formerly MUS 124. Consent required.

MUS 2145. Musicianship III. Units: 2

Semester Prerequisite: MUS 2135 with a grade of "C" or better. Quarter Corequisite: MUS 250 and MUS 252 (1st half of course) or MUS 322 and MUS 324 (1st half of course). Quarter Prerequisite: MUS 123 (2nd half of course) and MUS 125 or MUS 123 (2nd half of course) and MUS 321 (old catalog)
Semester Corequisite: MUS 2140
Dictation and solfège sight-singing of melodies involving modulation and leaps within Neapolitan, augmented-sixth, modally borrowed, extended tertian, and altered dominant chords; harmonic dictation involving modulation and Neapolitan, augmented-sixth, modally borrowed, extended tertian, and altered dominant chords; rhythmic dictation and sight-reading involving syncopation in simple and compound meter. Formerly MUS 125.

MUS 2150. Music Theory IV: 20th-21st Century Music Theory. Units: 3

Semester Prerequisite: MUS 2140 with a grade of "C-" or better
Semester Corequisite: MUS 2155
Culmination of 4-semester Western music theory sequence. A survey of 20th-21st century Western music theory topics, including Post-tonal harmony, Serialism, Impressionism, Minimalism, Jazz, Blues, American Popular Song, and other post-war and contemporary developments in harmonic and formal analysis. Fourth of four-semester music theory sequence. Formerly MUS 250. Consent required.

MUS 2155. Musicianship IV. Units: 2

Semester Prerequisite: MUS 2145 with a grade of "C" or better. Quarter Corequisite: MUS 252 (2nd half of course) and MUS 254 or MUS 324 (2nd half of course) and MUS 542 - old catalog numbers. Quarter Prerequisite: MUS 251 and MUS 253 (1st half of course) or MUS 323 and MUS 325 (1st half of course) - old catalog numbers
Semester Corequisite: MUS 2150
Dictation and solfège sight-singing of melodies involving modes, synthetic scales, and atonal material; harmonic dictation involving enharmonic modulation; rhythmic dictation and sight-reading involving asymmetrical meters and polymeter. Formerly MUS 251. Department consent required.

MUS 2200. Class Piano I. Unit: 1

Quarter Prerequisite: permission of department
Basic keyboard techniques, including music reading, keyboard harmony and improvisation.

MUS 2210. Class Piano II. Unit: 1

Semester Prerequisite: MUS 2200 with a grade of C or better. Quarter Prerequisite: MUS 220
Continuation of basic keyboard techniques, including music reading, keyboard harmony and improvisation.

MUS 2220. Class Piano III. Unit: 1

Semester Prerequisite: MUS 2210 with a grade of C or better. Quarter Prerequisite: MUS 221
Basic keyboard techniques, including music reading, keyboard harmony and improvisation. Credit may not be counted toward fulfilling requirements of the music major.

MUS 2224. Popular/Commercial Class Piano. Unit: 1

Semester Prerequisite: MUS 1100 and MUS 2200, or consent of Instructor
Provides the basic piano skills and theory needed to perform popular music styles (Jazz, Rock, Pop, Blues, Country, etc.). Includes playing from a lead sheet, comping, popular scales, accompaniment styles, voicing pop and jazz chords, sight-reading, and beginning improvisation. Will also study prominent pianists and their style throughout different eras of modern popular music history.

MUS 2230. Class Piano IV. Unit: 1

Semester Prerequisite: MUS 2220 with a grade of "C" or better
Basic keyboard techniques, including music reading, keyboard harmony, and improvisation.

MUS 2250. Music in the Theatre. Units: 3

A survey of music as it is allied with drama, dance and film. Formerly offered as MUS 225.

MUS 2266. Creating Digital Media Using Personal Electronic Technology. Units: 3

An introduction to the use of personal electronic devices to create digital media. Topics include recording and editing digital audio, audiovisual media production, immersive/AR audio, and content hosting and distribution. This course includes individual and group project-based learning activities. Satisfies GE C1/3A, Digital Life pathway.

MUS 2300. Introduction to Jazz Improvisation. Units: 2

Quarter Prerequisite: MUS 122, MUS 123, MUS 221 or equivalent, or consent of instructor
Techniques of jazz improvisation covered include melodic construction, functional jazz harmonies, practice techniques, primary chord types, auxiliary tones, chromaticisim and 12-bar blues form. May be repeated for credit. Formerly offered as MUS 230.

MUS 2350. Popular Music Literature. Units: 3

A survey of the contributions of operetta, show-tune styles, gospel music, the blues, standards of the 30s and 40s, folk and country music, rhythm-and-blues, early rock-and-roll, and the more contemporary and progressive styles of rock, pop and new wave music to twenty-first-century American popular culture. Formerly offered as MUS 235.

MUS 2390. Applied Voice and Repertoire I. Units: 2

Semester Prerequisite: Placement audition and permission of department. Quarter Corequisite: one of the following MUS 240, MUS 241, MUS 242, MUS 243, MUS 244, or MUS 245. Quarter Prerequisite: Placement audition and permission of department
Applied and repertoire study for two hours per week by sophomore-level vocal performance students in the Bachelor of Music degree. May be repeated for a maximum of six units (three semesters). Formerly offered as a combination of MUS 240 and MUS 239.

MUS 2391. Applied Piano and Repertoire I. Units: 2

Semester Prerequisite: Placement audition and permission of department
Applied and repertoire study for two hours per week by sophomore-level piano performance students in the Bachelor of Music degree. May be repeated for a maximum of six units (three semesters).

MUS 2392. Applied Strings and Repertoire I. Units: 2

Semester Prerequisite: Placement audition and permission of department
Applied and repertoire study for two hours per week by sophomore-level string performance students in the Bachelor of Music degree. May be repeated for a maximum of six units (three semesters).

MUS 2393. Applied Woodwind and Repertoire I. Units: 2

Semester Prerequisite: Placement audition and permission of department
Applied and repertoire study for two hours per week by sophomore-level woodwind performance students in the Bachelor of Music degree. May be repeated for a maximum of six units (three semesters).

MUS 2394. Applied Brass and Repertoire I. Units: 2

Semester Prerequisite: Placement audition and permission of department
Applied and repertoire study for two hours per week by sophomore-level brass performance students in the Bachelor of Music degree. May be repeated for a maximum of six units (three semesters).

MUS 2395. Applied Percussion and Repertoire I. Units: 2

Semester Prerequisite: Placement audition and permission of department
Applied and repertoire study for two hours per week by sophomore-level percussion performance students in the Bachelor of Music degree. May be repeated for a maximum of six units (three semesters).

MUS 2400. Lower-Division Voice II. Unit: 1

Semester Prerequisite: placement audition and approval of music faculty.
Quarter Corequisite: either MUS 385 or MUS 386. Quarter Prerequisite: placement audition and approval of music faculty
Semester Corequisite: MUS 1000 and either MUS 3850 or MUS 3860
45 minutes of private instruction and 45 minutes of instruction in a group or small ensemble setting for a total of 90 minutes. Must be taken concurrently with MUS 1000 and either MUS 3850 or 3860. May be repeated for a maximum of four units. Formerly offered as MUS 240.

MUS 2410. Lower-Division Keyboard II. Unit: 1

Semester Prerequisite: placement audition and approval of music faculty.
Quarter Corequisite: One of the following: MUS 380, MUS 381, MUS 385 or MUS 386. Quarter Prerequisite: placement audition and approval of music faculty
Semester Corequisite: MUS 1000 and one of the following: MUS 3800, MUS 3810, MUS 3850, MUS 3860
45 minutes of private instruction and 45 minutes of instruction in a group or small ensemble setting for a total of 90 minutes.. Must be taken concurrently with MUS 1000 and one of MUS 3800, MUS 3810, MUS 3850, or MUS 3860. May be repeated for a maximum of four units. Formerly offered as MUS 241A, MUS 241B, MUS 241C.

MUS 2420. Lower-Division String Instrument II. Unit: 1

Semester Prerequisite: placement audition and approval of music faculty.
Quarter Corequisite: MUS 380. Quarter Prerequisite: placement audition and approval of music faculty
Semester Corequisite: MUS 1000, MUS 3800
45 minutes of private instruction and 45 minutes of instruction in a group or small ensemble setting for a total of 90 minutes. May be repeated for a maximum of four units. Formerly offered as MUS 242A, MUS 242B, MUS 242C, MUS 242D, MUS 242E, MUS 242F.

MUS 2430. Lower-Division Wind Instrument II. Unit: 1

Semester Prerequisite: placement audition and approval of music faculty.
Quarter Corequisite: MUS 381. Quarter Prerequisite: placement audition and approval of music faculty
Semester Corequisite: MUS 1000, MUS 3800 or MUS 3810
45 minutes of private instruction and 45 minutes of instruction in a group or small ensemble setting for a total of 90 minutes. May be repeated for a maximum of four units. Formerly offered as MUS 243A, MUS 243B, MUS 243C, MUS 243D, MUS 243E.

MUS 2440. Lower-Division Brass Instrument II. Unit: 1

Semester Prerequisite: placement audition and approval of music faculty.
Quarter Corequisite: MUS 381. Quarter Prerequisite: placement audition and approval of music faculty
Semester Corequisite: MUS 1000, MUS 3800 or MUS 3810
45 minutes of private instruction and 45 minutes of instruction in a group or small ensemble setting for a total of 90 minutes. May be repeated for a maximum of four units. Formerly offered as MUS 244A, MUS 244B, MUS 244C, MUS 244D.

MUS 2450. Lower-Division Percussion Instrument II. Unit: 1

Semester Prerequisite: placement audition and approval of music faculty.
Quarter Corequisite: MUS 381. Quarter Prerequisite: placement audition and approval of music faculty
Semester Corequisite: MUS 1000 and one of MUS 3800 or MUS 3810
45 minutes of private instruction and 45 minutes of instruction in a group or small ensemble setting for a total of 90 minutes. May be repeated for a maximum of four units. Formerly offered as MUS 245.

MUS 2460. Lower-Division Composition. Unit: 1

Semester Prerequisite: MUS 2130 and MUS 2140 or equivalent, at least one year of applied vocal or instrumental instruction at the collegiate level (MUS 1400-1450), a placement audition, and approval of music faculty.
Quarter Prerequisite: MUS 122 and MUS 123 or equivalent, at least one year of applied vocal or instrumental instruction at the collegiate level (MUS 140-145), a placement audition, and approval of music faculty
45 minutes of private instruction and 45 minutes of instruction in a group or small ensemble setting for a total of 90 minutes. Must be taken concurrently with MUS 1000 and one of MUS 3800, MUS 3810, MUS 3850, or MUS 3860. May be repeated for a maximum of four units. Formerly offered as MUS 246.

MUS 2600. Commercial Songwriting. Units: 2

Semester Prerequisite: MUS 2120 and MUS 2125 or consent of the department. Quarter Prerequisite: MUS 120, MUS 121 and consent of the department
Introduction to the harmony, melody, form, and lyrics used in commercial song and jingle composition. Students will compose original songs and jingles as part of the course requirements. Formerly offered as MUS 260.

MUS 2660. Electronic Music Production. Units: 3

An introductory course in electronic music production designed to provide a working understanding of digital audio, including recording and editing tracks, applying audio effects, using software instruments, mixing, and mastering. Formerly MUS 266.

MUS 2670. Sound Recording. Units: 3

An introductory course in sound recording, including topics such as acoustics, digital audio signal processing, and microphone techniques within a Pro Tools software environment. Instruction includes lectures and hands-on projects. Formerly MUS 267.

MUS 2700. Music Therapy Orientation. Units: 3

This course provides an introduction for students interested in a career in music therapy to the applications of music therapy for various developmental problems and treatment programs to music therapy and its principles, including coverage of key ideas and methods within the field, primary treatments, and relevant technologies within the field. It will cover the philosophical, psychological, physiological, and sociological basis of music as therapy. It encourages thinking and self-evaluation concerning music therapy as a profession and explores the role of the music therapist and their various activities and responsibilities. Department consent required.

MUS 2750. Functional Skills for Music Therapy. Units: 3

This course provides key skills for music therapy in leading group singing, guitar, and percussion activities. A basic repertoire of traditional, folk, and popular songs will be covered. It will teach techniques for improvisation in dance and body movement and musical improvisation for the therapeutic setting. It will consider the selection and adaptation of music, musical instruments, and equipment consistent with the strengths and needs of the music therapy client. Department consent is required.

MUS 2770. Improvisation for Music Therapy. Units: 2

Semester Prerequisite: MUS 2700

This course builds on pre-requisite music theory and musicianship skills to provide experience in musical repertoire and improvisation for the therapeutic setting. It provides an in-depth look at various techniques of improvisation that are practiced in the music therapy profession. Theoretical concepts and techniques will be explored via class demonstration and exercises.

MUS 3007. Synthesizing Sound: The Art and Science of Audio Programming. Units: 3

Semester Prerequisite: Completion of GE Category B4/2

Introduces students to the fundamentals of digital audio programming, focusing on the scientific and computational principles behind sound synthesis, processing, and modulation. Through hands-on projects, students will explore key concepts such as oscillators, waveforms, filters, and dynamic effects, using programming to create digital instruments and audio tools. Emphasizing critical thinking and problem-solving, this course equips students with both technical skills and creative approaches to audio development. Satisfies GE B5/UD-5, Digital Life pathway.

MUS 3010. Advanced Choral Conducting and Literature. Units: 2

Semester Prerequisite: Students must have successfully completed MUS 2100; or have special instructor permission. Quarter Prerequisite: MUS 210

Techniques and skills employed in the performance of choral literature and conducting. A minimum of two additional hours per semester of guided field experience at an approved setting is required. Formerly MUS 301.

MUS 3020. Music Theatre Production. Units: 2

Preparation and performance of major musical theater productions, including Broadway-styled musicals, opera, opera scenes, madrigal feasts, variety shows, and the like. May be repeated for credit. Formerly offered as MUS 302.

MUS 3030. Advanced Instrumental Conducting and Literature. Units: 2

Semester Prerequisite: Students must have successfully completed MUS 2100; or have special instructor permission. Quarter Prerequisite: MUS 210

Techniques and skills employed in the performance of instrumental literature and conducting. A minimum of two additional hours per semester of guided field experience at an approved setting is required. One hour seminar and two hours of activity. Formerly offered as MUS 303.

MUS 3040. Western Music History to 1700. Units: 3

Quarter Prerequisite: MUS 122 and MUS 123 or consent of instructor

A historical study of Western music from Ancient Greece through 1700 CE. Study includes examination of major compositional trends, composers, musicians, and genres from primary stylistic trends in the period and includes investigation of cultural, economic, social, and other contexts in which Western music developed. Formerly offered as MUS 304. Graded A through C-/No Credit.

MUS 3050. Western Music History from 1700 to 1900. Units: 3

A historical study of Western music from 1700 through 1900 CE. The study includes an examination of major compositional trends, composers, musicians, and genres from primary stylistic trends in the period and includes investigation of cultural, economic, social, and other contexts in which Western music developed. Graded A through C-/No Credit. Satisfies WI designation.

MUS 3060. Western Music History from 1900 to the present. Units: 3

A historical study of Western music from 1900 CE to the present. The study includes an examination of major compositional trends, composers, musicians, and genres from primary stylistic trends in the period and includes an investigation of cultural, economic, social, and other contexts in which Western music developed. Graded A through C-/No Credit. Satisfies WI designation.

MUS 3070. Electronic and Electroacoustic Music Composition. Units: 2

Semester Prerequisite: MUS 2070 or consent of instructor

Project-based class, with creative explorations of topics including composing for instrumental and electroacoustic combinations, synthesizers, live processing, fixed media, and acoustic sound.

MUS 3080. Women in Music. Units: 3

A study of the contributions and roles of women as creators, performers and listeners in relation to music in popular and classical genres of various historic, contemporary, and cultural traditions. Satisfies GE C4/UD-3, DI designation.

MUS 3110. Performance Literature. Units: 2

Semester Corequisite: One of the following MUS 3400, MUS 3410, MUS 3420, MUS 3430, MUS 3440, MUS 3450, MUS 4400, MUS 4410, MUS 4420, MUS 4430, MUS 4440, MUS 4450. Quarter Corequisite: one of the following MUS 340, MUS 341, MUS 342, MUS 343, MUS 344, MUS 345, MUS 440, MUS 441, MUS 442, MUS 443, or MUS 445

A survey of musical literature most applicable to a student's applied study. Formerly MUS 311.

MUS 3300. Jazz Improvisation. Units: 2

Semester Prerequisite: MUS 2130 and 2135, or consent of instructor. Quarter Prerequisite: MUS 230 or equivalent, or consent of instructor

Techniques of vocal and instrumental jazz improvisation including functional keyboard harmonies/progressions, 12-bar Blues and rhythm changes. Students will transcribe solos, and learn techniques including jazz, modal, pentatonic, and diminished scales; triad/7th chord patterns, and melodic alterations. May be repeated for credit up to 4 units. Formerly MUS 330.

MUS 3309. Jazz History in America and African-American Culture. Units: 3

Chronological study of jazz in the United States and the study of African American musical culture in the U.S. Addresses cultural, racial, social, musical, and gender-related influences of jazz on current American arts, pop culture, language, and entertainment demographics. Satisfies GE C4/ UD-3, DI designation.

MUS 3337. Real-Time Multimedia Systems. Units: 3

This course introduces audio, video and other advanced programming concepts in Pure Data, a versatile and widely used programming language for artists. Students will learn to work with multichannel audio, create polyphonic synthesizers and samplers, design audio effects, and learn how to implement pitch and gesture tracking for live performance. Students will also learn how to incorporate video and 3D graphics into their projects using OpenGL. At the end of the semester, students will create and present original creative works that utilize the technologies they have developed.

MUS 3390. Applied Voice and Repertoire II. Units: 2

Semester Prerequisite: Placement audition and permission of department. Quarter Corequisite: one of the following, MUS 340, MUS 341, MUS 342, MUS 343, MUS 344, or MUS 345. Quarter Prerequisite: Placement audition and permission of department

Applied and repertoire study for two hours per week by junior-level vocal performance students in the Bachelor of Music degree. May be repeated for a maximum of six units (three semesters). Formerly offered as a combination of MUS 340 and MUS 339.

MUS 3391. Applied Piano and Repertoire II. Units: 2

Semester Prerequisite: Placement audition and permission of department Applied and repertoire study for two hours per week by junior-level piano performance students in the Bachelor of Music degree. May be repeated for a maximum of six units (three semesters).

MUS 3392. Applied Strings and Repertoire II. Units: 2

Semester Prerequisite: Placement audition and permission of department Applied and repertoire study for two hours per week by junior-level string performance students in the Bachelor of Music degree. May be repeated for a maximum of six units (three semesters).

MUS 3393. Applied Woodwind and Repertoire II. Units: 2

Semester Prerequisite: Placement audition and permission of department Applied and repertoire study for two hours per week by junior-level woodwind performance students in the Bachelor of Music degree. May be repeated for a maximum of six units (three semesters).

MUS 3394. Applied Brass and Repertoire II. Units: 2

Semester Prerequisite: Placement audition and permission of department Applied and repertoire study for two hours per week by junior-level brass performance students in the Bachelor of Music degree. May be repeated for a maximum of six units (three semesters).

MUS 3395. Applied Percussion and Repertoire II. Units: 2

Semester Prerequisite: Placement audition and permission of department Applied and repertoire study for two hours per week by junior-level percussion performance students in the Bachelor of Music degree. May be repeated for a maximum of six units (three semesters).

MUS 3400. Upper-Division Voice I. Unit: 1

Semester Prerequisite: placement audition and approval of music faculty. Quarter Prerequisite: placement audition and approval of music faculty

45 minutes of private instruction and 45 minutes of instruction in a group or small ensemble setting for a total of 90 minutes. Must be taken concurrently with MUS 1000 and either MUS 3850 or 3860. May be repeated for a maximum of four units. Formerly offered as MUS 340.

MUS 3410. Upper-Division Keyboard Instrument I. Unit: 1

Semester Prerequisite: placement audition and approval of music faculty. Quarter Prerequisite: placement audition and approval of music faculty

45 minutes of private instruction and 45 minutes of instruction in a group or small ensemble setting for a total of 90 minutes. Must be taken concurrently with MUS 1000 and one of MUS 3800, MUS 3810, MUS 3850, or MUS 3860. May be repeated for a maximum of four units. Formerly MUS 341A.

MUS 3420. Upper-Division String Instrument I. Unit: 1

Semester Prerequisite: placement audition and approval of music faculty. Quarter Corequisite: MUS 380. Quarter Prerequisite: placement audition and approval of music faculty

Semester Corequisite: MUS 1000, MUS 3800

45 minutes of private instruction and 45 minutes of instruction in a group or small ensemble setting for a total of 90 minutes. Must be taken concurrently with MUS 1000 and MUS 3800. May be repeated for a maximum of four units. Formerly offered as MUS 342A, MUS 342B, MUS 342C, MUS 342D, MUS 342D, MUS 342E, MUS 343F.

MUS 3430. Upper-Division Wind Instrument I. Unit: 1

Semester Prerequisite: placement audition and approval of music faculty. Quarter Corequisite: MUS 381. Quarter Prerequisite: placement audition and approval of music faculty

Semester Corequisite: MUS 1000, MUS 3800 or MUS 3810

45 minutes of private instruction and 45 minutes of instruction in a group or small ensemble setting for a total of 90 minutes. May be taken four times for four units. Formerly offered as MUS 343A, MUS 343B, MUS 343C, MUS 343D, MUS 343E.

MUS 3440. Upper-Division Brass Instrument I. Unit: 1

Semester Prerequisite: placement audition and approval of music faculty. Quarter Corequisite: MUS 381. Quarter Prerequisite: placement audition and approval of music faculty

Semester Corequisite: MUS 1000 and one of MUS 3800 or MUS 3810

45 minutes of private instruction and 45 minutes of instruction in a group or small ensemble setting for a total of 90 minutes. May be repeated for a maximum of six units. Formerly offered as MUS 344A, MUS 344B, MUS 344C, MUS 344D.

MUS 3450. Upper-Division Percussion Instrument I. Unit: 1

Semester Prerequisite: placement audition and approval of music faculty. Quarter Corequisite: MUS 380. Quarter Prerequisite: placement audition and approval of music faculty

Semester Corequisite: MUS 1000 and one of MUS 3800 or MUS 3810

45 minutes of private instruction and 45 minutes of instruction in a group or small ensemble setting for a total of 90 minutes. May be repeated for a maximum of four units. Formerly offered as MUS 345.

MUS 3460. Upper-Division Composition I. Unit: 1

Semester Prerequisite: placement audition and approval of music faculty. Quarter Prerequisite: placement audition and approval of music faculty

45 minutes of private instruction and 45 minutes of instruction in a group or small ensemble setting for a total of 90 minutes. Must be taken concurrently with MUS 1000 and one of MUS 3800, 3810, 3850, or 3860. May be repeated for a maximum of four units. Formerly offered as MUS 346.

MUS 3480. Applied Technology I. Unit: 1

Semester Prerequisite: MUS 4160 or MUS 4270 and approval of music faculty. Quarter Corequisite: One of MUS 380, MUS 381, MUS 385 or MUS 386. Quarter Prerequisite: MUS 416 or MUS 427 and approval of music faculty

Semester Corequisite: MUS 1000 and one of MUS 3800, MUS 3810, MUS 3850 or MUS 3860

Individual instruction in applied music technology and directed study in characteristic repertoire, live performance, digital programming, and/or creative layering of sound. 45 minutes of private instruction and 45 minutes of instruction in a group or small ensemble setting for a total of 90 minutes. May be repeated for a maximum of four units. Formerly offered as MUS 348.

MUS 3490. Applied Commercial Music. Unit: 1

Quarter Prerequisite: MUS 266 and MUS 414 and approval of music faculty

Individual instruction in applied commercial music composition, scoring, performance, and/or engineering, including directed study in ProTools and MIDI software and hardware, commercial performance practice for studio and live settings, refinement of compositional skills for particular commercial genres and needs, and other topics selected with instructor's approval. One-half hour per week of private instruction. Must be taken concurrently with one of MUS 380, MUS 381, MUS 385, or MUS 386. May be repeated for a maximum of six units.

MUS 3500. Global Music. Units: 3

A survey of select global musical traditions, including the historical, philosophical, cultural, and other contexts in which music is composed and performed. Satisfies GE C4/UD-3, G designation.

MUS 3510. Latin American Music. Units: 3

An interdisciplinary study of Latin American music and dance from the perspectives of music studies, cultural studies, diaspora studies, colonial studies, Latin American studies, and race, gender, and queer studies. Focusing on several waves of globalization experienced by the Caribbean and Central and South America, this course will address questions of musical roots and influences, economic and political forces, cultural and personal identity, colonialism and globalization, and migration and diaspora. Musical traditions to be covered might include those of Mexico, Colombia, Cuba, Brazil, Argentina, Peru, and the Latinx diaspora in the United States and Canada. Musical styles might include traditional styles, colonial hybrids, indigenous styles, and popular styles. Satisfies GE C4/UD-3, DI, G designations, Global Connections, World Cultures and Diversity pathways.

MUS 3520. African American Music. Units: 3

Historical development of the African American musical heritage. Formerly MUS 352.

MUS 3600. Choral Methods. Units: 2

Semester Prerequisite: Students must have successfully passed MUS 2112 and MUS 3010

Learn how to build and run a choral program. Learn how to choose choral literature from around the world appropriate for a variety of levels, how to build a choral sound, how to build a choral ensemble, as well as methodologies for sight-reading and musicianship, rehearsal techniques, and budgeting and administration.

MUS 3610. Music in the United States. Units: 3

Primarily concerned with music not directly related to Western European classical traditions: folk heritage, jazz, and blues tradition. Formerly offered as MUS 360.

MUS 3650. Music for the Screen. Units: 3

The history of film music around the world is the history of culture, industry, technology, style, and storytelling. Music for the screen not only facilitates narrative and mood for the audience's enjoyment, but also outlines changes over time across diverse traditions, national politics, social norms, cultural aesthetics, and audience expectations. This course contends with the power of music and sound in screen media across the globe, surveying feature-length films according to broad topics that apply to multiple film traditions from multiple film traditions. Weekly viewings will allow us to engage with screen media as a multisensorial, psychological, and artistic experience while also exploring genre conventions, key composers and styles, and the impact of technology and production practice on each practice we cover. Global practices will be considered not only through their filmic and musical trends, but also through histories of technology, international politics, and social politics. This course will help us engage more critically with a global art form that permeates our everyday and professional lives, illuminate the ideas and practices at its heart, and teach us to analyze it according to its cultural context and articulate our conclusions. Satisfies GE C4/UD-3, G designation, Global Connections pathway.

MUS 3670. Music in Video Games. Units: 3

This course will introduce central ideas, hot spots, and goals in the creation and study of video game music (VGM). Satisfies GE C4/UD3, WI designation.

MUS 3700. Marching Band Methods. Units: 2

Semester Prerequisite: The student must have successfully passed MUS 2090 and MUS 3030

Students enrolled in this class will learn and demonstrate knowledge of planning, budgeting and administration of band camps and marching band and develop an understanding and be able to create marching drill in the four primary styles of marching band - Corps Style, Squad Style, Block Band, Show Band, thus preparing them to be adaptable for any style used by school districts following their hiring. One hour seminar and two hours of activity.

MUS 3702. Symphonic Orchestral Methods. Units: 2

Semester Prerequisite: MUS 2090 and MUS 3030

Students enrolled in this course will learn and demonstrate knowledge of planning, budgeting, and administration of orchestral camps and symphonic orchestras, and develop an understanding and ability to create programs for symphonic orchestras and chamber orchestras, preparing them to be adaptable to different types of orchestras used by school districts following their hiring. One hour seminar and two hours of activity.

MUS 3705. Music for Elementary Classroom Teachers. Units: 3

Basic elements of music, including teaching strategies for using music in the elementary classroom. Class activities will include singing, movement, listening, playing classroom instruments, and musical composition. Students will also develop proficiency in the soprano recorder. Each student will develop and present a lesson plan integrating the teaching of musical skills with other areas of the elementary curriculum, in accordance with the California and National Standards of Visual and Performing Arts. One hour seminar and two hours of activity. Formerly offered as MUS 370.

MUS 3750. Music Theatre Internship. Units: 2

Semester Prerequisite: DAN 300, MUS 3400, and either MUS 3020, MUS 3870 or TA 302. Quarter Prerequisite: DAN 300, MUS 340, and either MUS 302, MUS 387 or TA 302

Supervised work in a public or private setting that includes primarily professional auditioning and performing experience in the field of music theater. May be repeated twice for credit. Generally assumes 30 hours of work per unit of credit. Graded credit/no credit. Formerly offered as MUS 375.

MUS 3760. Psychology of Music. Units: 3

This course provides students with an understanding of the psychological and biological aspects of musical behavior and experience. It also introduces students to the concurrent physiological, psychological, philosophical, and sociological affects and meanings of music, and to the various ways in which music and music therapy can be responsive to age group, culture, and stylistic preferences. Finally, it teaches students to interpret and employ qualitative, quantitative, and historical research methods in the study of music. Satisfies GE D4/UD-4; WI designation.

MUS 3780. Clinical Principles in Music Therapy. Units: 3

Semester Prerequisite: PSYC 1100 and MUS 2700

This course presents therapeutic methods, principles, and applications in the field of music therapy. It covers the biological, neurological, and psychological foundations of music therapy, addresses the therapist-client relationship, and explores the Standards of Clinical Practice and the American Music Therapy Association (AMTA) Code of Ethics. Students will also be introduced to collaborative partnerships, client assessment, documentation, treatment and discharge planning, and the implementation and evaluation of therapy. They will investigate how music therapy relates to the various psychotherapies and their application to mental health problems, and will administratively design a comprehensive music therapy program for a given population by delineating referral procedures, client objectives, and resource allocation and budget requests.

MUS 3781. Music Therapy Observation. Units: 2

Semester Prerequisite: MUS 2700

This course provides supervised observation and discussion of the therapeutic setting in the field of music therapy. Discussion of music therapy in various types of settings will be explored by viewing sessions of and discussions about interventions in music therapy.

MUS 3782. Music Therapy Group Lab. Unit: 1

Semester Prerequisite: MUS 3781

This course provides an opportunity for students to apply learned skills in music therapy in a practice setting. May be taken twice for up to two units.

MUS 3790. Music Therapy for Adults. Units: 2

Semester Prerequisite: MUS 3781

This course covers research surrounding, and best practices for, the music therapy setting with adult patients.

MUS 3791. Music Therapy for Children. Units: 2

Semester Prerequisite: MUS 3781

This course covers research surrounding, and best practices for, the music therapy setting with pediatric patients.

MUS 3800. Symphony Orchestra. Unit: 1

Semester Prerequisite: Audition and permission of instructor

The CSUSB Symphony Orchestra provides orchestral string, woodwind, brass, percussion, and keyboard musicians the opportunity to play masterworks of the symphony orchestra repertory, and occasionally chamber and string orchestra repertory. The course is repeatable for credit. Department consent required.

MUS 3810. Symphonic Band. Unit: 1

Quarter Prerequisite: Audition and consent of instructor

Symphonic Band provides woodwind, brass, and percussion musicians the opportunity to play masterworks of the symphonic band repertory. The course is repeatable for credit. Department consent required. Formerly offered as MUS 381.

MUS 3820. Chamber Winds. Unit: 1

Semester Prerequisite: Consent of instructor. Quarter Prerequisite: Consent of instructor

Performance of small ensemble music as determined by available instrumentation. Repeatable for credit. Formerly offered as MUS 382A.

MUS 3821. Chamber Music: Percussion Ensemble. Unit: 1

Semester Prerequisite: Consent of instructor
Performance of small ensemble music as determined by available instrumentation. Repeatable for credit. Formerly offered as MUS 382B.

MUS 3822. Chamber Music: Flute Choir. Unit: 1

Semester Prerequisite: Consent of instructor. Quarter Prerequisite: Consent of instructor
Performance of small ensemble music as determined by available instrumentation. Repeatable for credit. Formerly offered as MUS 382C.

MUS 3823. Chamber Music: Brass Quintet. Unit: 1

Semester Prerequisite: Consent of instructor. Quarter Prerequisite: Consent of instructor
Performance of small ensemble music as determined by available instrumentation. Repeatable for credit. Formerly offered as MUS 382D.

MUS 3824. Chamber Music: Saxophone Ensemble. Unit: 1

Semester Prerequisite: Consent of instructor. Quarter Prerequisite: Consent of instructor
Performance of small ensemble music as determined by available instrumentation. Repeatable for credit. Formerly offered as MUS 382E.

MUS 3825. Chamber Music: Guitar Ensemble. Unit: 1

Semester Prerequisite: Consent of instructor. Quarter Prerequisite: Consent of instructor
Performance of small ensemble music as determined by available instrumentation. Repeatable for credit. Formerly offered as MUS 382F.

MUS 3826. Chamber Music: Clarinet Ensemble. Unit: 1

Semester Prerequisite: Consent of instructor. Quarter Prerequisite: Consent of instructor
Performance of small ensemble music as determined by available instrumentation. Repeatable for credit. Formerly offered as MUS 382G.

MUS 3827. Chamber Music: Jazz Combo. Unit: 1

Semester Prerequisite: Consent of instructor. Quarter Prerequisite: MUS 230 or consent of instructor
Performance of small ensemble music as determined by available instrumentation. Repeatable for credit. Formerly offered as MUS 382H.

MUS 3828. Chamber Music: World Music. Unit: 1

Semester Prerequisite: Consent of instructor. Quarter Prerequisite: Consent of instructor
Performance of small ensemble music as determined by available instrumentation. Repeatable for credit. Formerly offered as MUS 382I.

MUS 3829. Chamber Music: Early Music. Unit: 1

Semester Prerequisite: Consent of instructor. Quarter Prerequisite: Consent of instructor
Performance of small ensemble music as determined by available instrumentation. Repeatable for credit. Formerly offered as MUS 382J.

MUS 3830. Chamber Music: Strings. Unit: 1

Semester Prerequisite: Consent of instructor. Quarter Prerequisite: Consent of instructor
Performance of small ensemble music as determined by available instrumentation. Repeatable for credit. Formerly offered as MUS 382L.

MUS 3831. Chamber Music: Collaborative Piano. Unit: 1

Semester Prerequisite: Consent of instructor. Quarter Prerequisite: Consent of instructor
Performance of small ensemble music as determined by available instrumentation. Repeatable for credit. Formerly offered as MUS 382K.

MUS 3832. Cello Ensemble. Unit: 1

Semester Prerequisite: Consent of instructor
Performance of small ensemble music as determined by available instrumentation. Repeatable for credit.

MUS 3833. New Music Ensemble. Unit: 1

Semester Prerequisite: Consent of instructor
Performance of small ensemble music as determined by available instrumentation. Repeatable for credit.

MUS 3834. El Mariachi Los Coyotes. Unit: 1

Quarter Prerequisite: Consent of instructor
Performance of small ensemble music as determined by available instrumentation. Repeatable for credit.

MUS 3835. Alternative Styles Capstone. Unit: 1

Semester Prerequisite: Completion of all course requirements in the Minor in Alternative Styles of Music, and consent of instructor. Prerequisite: Completion of all course requirements in the Minor in Alternative Styles of Music, and consent of instructor
Performance of small ensemble music as determined by available instrumentation. Will culminate in a performance for the Coyote Music Society's Showcase Recital.

MUS 3836. Orchestral Repertoire. Unit: 1

Semester Prerequisite: Consent of instructor
Semester Corequisite: Co-registration in applied lessons
Orchestral repertoire class for all instrumental areas (strings, woodwinds, brass, percussion, and keyboard), covering a broad spectrum of the standard orchestral literature; emphasis on preparation for professional orchestral auditions. This course requires 2 hours of contact time per week. May be taken 4 times for a total of 4 units.

MUS 3837. Double Bass Ensemble. Unit: 1

Performance of small ensemble music as determined by available instrumentation. Repeatable for credit. Consent required.

MUS 3838. Viola Ensemble. Unit: 1

Semester Prerequisite: Consent of instructor
Performance of small ensemble music as determined by available instrumentation. Repeatable for credit. Department consent required.

MUS 3839. Violin Ensemble. Unit: 1

Semester Prerequisite: Consent of instructor
Performance of small ensemble music as determined by available instrumentation. Repeatable for credit. Department consent required.

MUS 3850. Concert Choir. Unit: 1

Learn vocal technique and basic skills for choral singing through rehearsal and performance of choral music. Repeatable for credit. Department consent required. Formerly offered as MUS 385.

MUS 3860. Chamber Singers. Unit: 1

Quarter Prerequisite: Audition and consent of instructor
Learn advanced skills for singing in a chamber choral ensemble through rehearsal and performance of choral music. Repeatable for credit. Department consent required. Formerly offered as MUS 386.

MUS 3870. Opera Theatre I. Unit: 1

Quarter Prerequisite: Audition and consent of instructor
Preparation and rehearsal of major musical theatre productions, including opera, operetta, and opera scenes. May be repeated for credit. Total credit units apply to any degree emphasis are outlined in the specific catalog description for that emphasis. Students admitted into this course must also register for MUS 3970 in the Spring semester of the same academic year. Formerly offered as MUS 387.

MUS 3880. Women's Chorus. Unit: 1

Semester Prerequisite: Consent of instructor. Quarter Prerequisite: Audition and consent of instructor
Learn vocal techniques and basic skills for choral ensemble singing through rehearsal and performance of women's chorus repertoire. Repeatable for credit. Department consent required. Formerly offered as MUS 388.

MUS 3890. Wind Ensemble. Unit: 1

Semester Prerequisite: Consent of instructor. Quarter Prerequisite: Audition and consent of instructor
Performance of representative literature for wind ensemble. Repeatable for credit. Formerly offered as MUS 389.

MUS 3910. Jazz Ensemble. Unit: 1

Semester Prerequisite: Audition and consent of instructor. Quarter Prerequisite: Audition and consent of instructor
Performance of representative jazz ensemble literature. Repeatable for credit. Formerly offered as MUS 391.

MUS 3920. Vocal Jazz. Unit: 1

Semester Prerequisite: Audition and consent of instructor. Quarter Prerequisite: Audition and consent of instructor
A select vocal ensemble dedicated to the performance of American vocal jazz, emphasizing vocal jazz improvisation and jazz styles. Active performance schedule can be expected. Repeatable for credit. Formerly offered as MUS 392.

MUS 3930. Collegium Musicum. Unit: 1

Semester Prerequisite: Consent of instructor. Quarter Prerequisite: Consent of instructor
Performance of representative vocal and instrumental literature from the Medieval and Renaissance periods. Four hours of activity per week. Repeatable for credit. Formerly offered as MUS 393.

MUS 3950. Symphonic Choir. Unit: 1

Semester Prerequisite: Audition and consent of instructor. Quarter Prerequisite: Audition and consent of instructor
Performance of major works for large choral ensemble. Repeatable for credit. Formerly offered as MUS 395.

MUS 3960. Reverence Singers. Unit: 1

Performance of vocal literature from the Afro-American tradition. Repeatable for credit. Formerly offered as MUS 396.

MUS 3970. Opera Theatre II. Units: 2

Semester Prerequisite: MUS 3870 in the same academic year. Quarter Prerequisite: MUS 387 in the same academic year
Continuation of MUS 3870. Preparation and performance of major music theatre productions, including opera, operetta, and opera scenes. May be repeated for credit. Total units may apply to any degree concentration area outlined in the specific catalog description for that emphasis. Formerly offered as MUS 397.

MUS 3990. Junior Recital. Unit: 1

Semester Prerequisite: Junior standing, attained 300-level in applied study, and consent of department. Quarter Prerequisite: junior standing, attained 300-level in applied study, and consent of department
Under the supervision of an applied instructor, preparation for and public performance of a recital. Formerly MUS 499.

MUS 3991. Community Service Project. Unit: 1

Quarter Prerequisite: Consent of instructor
Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of six units. No more than six units of credit for Community Service Project courses may be applied toward degree requirements. Formerly MUS 399A.

MUS 3992. Community Service Project. Units: 2

Quarter Prerequisite: Consent of instructor
Credit for performing academically related tasks in such agencies as governmental, social service and educational institutions. May be repeated for a total of six units. No more than six units of credit for Community Service Project courses may be applied toward degree requirements. Formerly offered as MUS 399B.

MUS 4000. Studies in Composers. Units: 3

Quarter Prerequisite: MUS 306 or consent of instructor
Intensive study in the life and works of a particular composer. Content will vary. May be repeated for credit as topics change. Formerly offered as MUS 400.

MUS 4020. Topics in Music History. Units: 3

Quarter Prerequisite: MUS 306 or consent of instructor
Selected topics in the field of Music History. May be repeated for credit as topics change. Formerly offered as MUS 402.

MUS 4030. Score Study & Analysis for Conductors. Units: 3

Semester Prerequisite: MUS 2150 and 2155
Students enrolled in this course will learn and demonstrate knowledge of how a conductor studies, learns, and marks a score both as a rehearsal score, and also as a performance score. Students will learn how to effectively use the time to musically analyze a score for conducting, and to use a score in rehearsal and performance.

MUS 4040. Professional Conducting & Literature. Units: 2

Semester Prerequisite: MUS 2100, MUS 3010, and MUS 3030
Students enrolled in this course will learn and demonstrate knowledge of podium techniques and repertoire in use for professional organizations, both choral and orchestral. They will learn the responsibilities for programming, budgeting, and working with a board of directors, appropriate for being hired as an artistic director in the field of professional conducting. Course meets three hours per week.

MUS 4060. Orchestration. Units: 2

Semester Prerequisite: MUS 2120 with a grade of "C" or better and MUS 2125 with a grade of "C" or better. Quarter Prerequisite: MUS 122 and MUS 123 or consent of instructor

Instrumental literature and orchestration, including study of the instruments of the orchestra and writing for instrumental groups. Department consent required. Formerly MUS 406.

MUS 4080. Arranging. Units: 2

Semester Prerequisite: MUS 4060 with a grade of "C" or better. Quarter Prerequisite: MUS 406 or consent of instructor

Continuation of MUS 4060. Techniques of arranging for large instrumental groups, such as symphonic band. Department consent required. Formerly MUS 408.

MUS 4085. Instrumentation and Arranging. Units: 2

Semester Prerequisite: Students should have successfully completed either MUS 3030 or MUS 3010; or have special approval from the instructor

Course is geared toward pre-professional music educators. Study of writing and arranging for the strings, woodwinds, brass and percussion as well as choral ensembles. Functional ranges and practical applications through score study and projects.

MUS 4100. Music in the Elementary Schools. Units: 3

Semester Prerequisite: The student must have successfully passed Intro to MUS 2114 or have the consent of the instructor. Quarter Prerequisite: MUS 214 or consent of instructor

Materials and objectives in teaching music at the elementary school, including specialized instrumental and choral programs, singing and listening activities, and the use of simple instruments appropriate to child growth and development. Field work is included. Formerly MUS 410.

MUS 4110. Teaching Music in Secondary Schools. Units: 3

Semester Prerequisite: The student must have successfully passed Intro to MUS 2114 and MUS 4100; or have the consent of the instructor. Quarter Prerequisite: MUS 214 or consent of instructor

Materials and objectives for teaching music in the secondary schools, including specialized instrumental and choral programs and marching band techniques. Field work is included. Formerly MUS 411.

MUS 4140. Commercial Arranging and Scoring. Units: 2

Arranging and scoring techniques for groups of varied instrumentation, and for various commercial applications, including traditional songs, jingles, and video scoring. Formerly offered as MUS 414.

MUS 4170. Composition for Films and Television. Units: 3

Quarter Prerequisite: MUS 4140 or consent of instructor

Study of the aesthetic, psychological and practical techniques involved in composing music for films and television. Formerly MUS 417.

MUS 4180. Film Soundtrack Recording. Units: 3

Learn the techniques and skills for vocal/instrumental session work in film and television soundtrack recording. Develop your resume, audio clip demos, microphone techniques, home studio setup, and how to connect to vocal/instrumental contractors in the film industry. Students will gain hands-on experience sight-reading actual film soundtrack scores in mock soundstage sessions.

MUS 4260. Studies in Music History Style Periods. Units: 3

Semester Prerequisite: MUS 3340, 3350, 3360, or consent of instructor. Quarter Prerequisite: MUS 3340, 3350 and 3360, or consent of instructor

Intensive study in selected style periods of music. May be repeated for credit as topics change. Formerly offered as MUS 426.

MUS 4290. Topics in Music Technology. Units: 3

Areas of special interest in the field of music technology. May be repeated for credit as topics change. Formerly MUS 429.

MUS 4390. Applied Voice and Repertoire III. Units: 2

Semester Prerequisite: Placement audition and permission of department. Quarter Corequisite: one of the following MUS 440, MUS 441, MUS 442, MUS 443, MUS 444, or MUS 445. Quarter Prerequisite: placement audition and permission of department

Applied and repertoire study for two hours per week by senior-level vocal performance students in the Bachelor of Music degree. May be repeated for a maximum of six units (three semesters). Formerly offered as a combination of MUS 440 and MUS 439.

MUS 4391. Applied Piano and Repertoire III. Units: 2

Semester Prerequisite: Placement audition and permission of department

Applied and repertoire study for two hours per week by senior-level piano performance students in the Bachelor of Music degree. May be repeated for a maximum of six units (three semesters).

MUS 4392. Applied Strings and Repertoire III. Units: 2

Semester Prerequisite: Placement audition and permission of department

Applied and repertoire study for two hours per week by senior-level string performance students in the Bachelor of Music degree. May be repeated for a maximum of six units (three semesters).

MUS 4393. Applied Woodwind and Repertoire III. Units: 2

Semester Prerequisite: Placement audition and permission of department

Applied and repertoire study for two hours per week by senior-level woodwind performance students in the Bachelor of Music degree. May be repeated for a maximum of six units (three semesters).

MUS 4394. Applied Brass and Repertoire III. Units: 2

Semester Prerequisite: Placement audition and permission of department

Applied and repertoire study for two hours per week by senior-level brass performance students in the Bachelor of Music degree. May be repeated for a maximum of six units (three semesters).

MUS 4395. Applied Percussion and Repertoire III. Units: 2

Semester Prerequisite: Placement audition and permission of department
Applied and repertoire study for two hours per week by senior-level percussion performance students in the Bachelor of Music degree. May be repeated for a maximum of six units (three semesters).

MUS 4400. Upper-Division Voice II. Unit: 1

Semester Prerequisite: placement audition and approval of music faculty. Quarter Corequisite: one of MUS 385 or MUS 386. Quarter Prerequisite: placement audition and approval of music faculty
Semester Corequisite: MUS 1000 and one of MUS 3850 or MUS 3860
45 minutes of private instruction and 45 minutes of instruction in a group or small ensemble setting for a total of 90 minutes. May be repeated for a maximum of four units. Formerly offered as MUS 440.

MUS 4410. Upper-Division Keyboard Instrument II. Unit: 1

Semester Prerequisite: placement audition and approval of music faculty. Quarter Corequisite: One of MUS 380, MUS 381, MUS 385, MUS 386. Quarter Prerequisite: placement audition and approval of music faculty
Semester Corequisite: MUS 1000 and One of MUS 3800, MUS 3810, MUS 3850, MUS 3860
45 minutes of private instruction and 45 minutes of instruction in a group or small ensemble setting for a total of 90 minutes. May be repeated for a maximum of four units. Formerly offered as MUS 441A, MUS 441B, MUS 441C.

MUS 4420. Upper-Division String Instrument II. Unit: 1

Semester Prerequisite: placement audition and approval of music faculty. Quarter Corequisite: placement audition and approval of music faculty. Quarter Prerequisite: placement audition and approval of music faculty
Semester Corequisite: MUS 1000, MUS 3800
45 minutes of private instruction and 45 minutes of instruction in a group or small ensemble setting for a total of 90 minutes. May be repeated for a maximum of four units. Formerly offered as MUS 442A, MUS 442B, MUS 442C, MUS 442D, MUS 442E, MUS 442F.

MUS 4430. Upper-Division Wind Instrument II. Unit: 1

Semester Prerequisite: placement audition and approval of music faculty. Quarter Corequisite: MUS 381. Quarter Prerequisite: placement audition and approval of music faculty
Semester Corequisite: MUS 1000, MUS 3800 or MUS 3810
45 minutes of private instruction and 45 minutes of instruction in a group or small ensemble setting for a total of 90 minutes. May be repeated for a maximum of four units. Formerly offered as MUS 443A, MUS 443B, MUS 443C, MUS 443D, MUS 443E.

MUS 4440. Upper-Division Brass Instrument II. Unit: 1

Semester Prerequisite: placement audition and approval of music faculty. Quarter Corequisite: MUS 381. Quarter Prerequisite: placement audition and approval of music faculty
Semester Corequisite: MUS 1000 and one of MUS 3800 or MUS 3810
45 minutes of private instruction and 45 minutes of instruction in a group or small ensemble setting for a total of 90 minutes. May be repeated for a maximum of six units. Formerly offered as MUS 444A, MUS 444B, MUS 444C, MUS 444D.

MUS 4444. Four on the Floor: Electronic Dance Music in Practice and Culture. Units: 3

Semester Prerequisite: Students should have completed both MUS 2660 and MUS 2670
A course on the the histories, techniques, and production styles of electronic dance music. Students will learn the basics of producing in Ableton Live, including recording audio and MIDI, sampling, creating and customizing software instruments, implementing filters and compressors, mixing, parameter automation, and using time-based effects such as reverb and delay.

MUS 4450. Upper-Division Percussion Instrument II. Unit: 1

Semester Prerequisite: placement audition and approval of the music faculty. Quarter Corequisite: MUS 381. Quarter Prerequisite: placement audition and approval of music faculty
Semester Corequisite: MUS 1000 and one of MUS 3800 or MUS 3810
45 minutes of private instruction and 45 minutes of instruction in a group or small ensemble setting for a total of 90 minutes. May be repeated for a maximum of four units. Formerly offered as MUS 445.

MUS 4455. Arts in Action: Music. Units: 3

Semester Prerequisite: MUS 3705. Prerequisite: MUS 370
Applied practice of arts education in the community. Projects will vary based on participants. May be repeated for credit up to 9 units if taken under a different Fine Arts subject (Dance, Visual Art, or Music).

MUS 4460. Upper-Division Composition II. Unit: 1

Semester Prerequisite: placement audition and approval of music faculty. Quarter Prerequisite: placement audition and approval of music faculty
45 minutes of private instruction and 45 minutes of instruction in a group or small ensemble setting for a total of 90 minutes. Must be taken concurrently with MUS 1000 and one of MUS 3800, MUS 3810, MUS 3850, or MUS 3860. May be repeated for a maximum of four units. Formerly offered as MUS 4460.

MUS 4480. Applied Technology. Unit: 1

Semester Prerequisite: MUS 3480 or consent of instructor. Quarter Corequisite: one of MUS 380, MUS 381, MUS 385 or MUS 386. Quarter Prerequisite: MUS 348 or consent of instructor
Semester Corequisite: MUS 1000 and one of MUS 3800, MUS 3810, MUS 3850 or MUS 3860
Advanced individual instruction in applied music technology, with directed study in the characteristic repertoire, live performance, digital programming, and creative layering of sound. 45 minutes of private instruction and 45 minutes of instruction in a group or small ensemble setting for a total of 90 minutes. May be repeated for a maximum of four units. Formerly offered as MUS 448.

MUS 4500. Applied Pedagogy. Unit: 1

Semester Corequisite: MUS 3390, 3391, 3392, 3393, 3394, 3395, 3400, 3410, 3420, 3430, 3440, 3450, 4390, 4391, 4392, 4393, 4394, 4395, 4400, 4410, 4420, 4430, 4440, or 4450
Study of pedagogical techniques and literature most applicable to a student's applied instrument. Includes review of recent pedagogical research, review of standard methodologies or "schools" of teaching, and supervised teaching experiences. Formerly offered as MUS 450A-G.

MUS 4660. Advanced Electronic Music. Units: 3

Quarter Prerequisite: MUS 266 or consent of instructor
Quarter Corequisite: MUS 2660 or consent of instructor
Intensive study in the history, development and practice of computer and electronic music.

MUS 4670. Advanced Studio Recording Techniques. Units: 3

Quarter Prerequisite: MUS 267 or consent of instructor
Quarter Corequisite: MUS 2670 or consent of instructor
Intensive course dealing with microphone techniques, aspects of recording, multi-tracking, mix-down and editing. Formerly MUS 427.

MUS 4700. Music Therapy Practicum. Unit: 1

Semester Prerequisite: MUS 3781
This course allows students to explore and practice therapeutic methods, principles, ethics, applications, collaborations, and clinical practices (assessment, research, documentation, treatment, discharge, and administration). This course provides students with supervised clinical training paired with peer learning and discussion. May be taken four times for four units. If taken four times, students will receive at least 180 hours of supervised, pre-internship clinical training. Department consent required.

MUS 4840. Vocal Pedagogy. Units: 2

Semester Prerequisite: one of MUS 2400 or MUS 2390. Quarter Prerequisite: MUS 240
Fundamentals of vocal pedagogy with emphasis on historical background, comparative vocal methods, physiology, voice classification, and practical application to teaching individuals of all ages.

MUS 4850. Conducting Pedagogy. Units: 2

Semester Prerequisite: MUS 2100, MUS 3010, and MUS 3030
Students enrolled in this course will learn and demonstrate knowledge of how to successfully teach conducting in a classroom setting. Fundamentals of conducting pedagogy with emphasis on historical background, comparative conducting methods, physiology, and practical application to teaching individuals in high school or college. One-hour lecture and two-hour activity per week.

MUS 4990. Senior Recital. Unit: 1

Semester Prerequisite: Senior standing attained 4000-level in applied study, and consent of department. Quarter Prerequisite: senior standing, attained 400-level in applied study, and consent of department
Under supervision of an applied instructor, preparation for and public performance of a recital. Formerly MUS 599.

MUS 5281. Special Projects. Unit: 1

Semester Prerequisite: consent of instructor. Quarter Prerequisite: consent of instructor
Individual projects in orchestration, conducting and score reading, theory, history, composition, electronic music. May be repeated for credit. Formerly offered as MUS 528A.

MUS 5282. Special Projects. Units: 2

Semester Prerequisite: consent of instructor. Quarter Prerequisite: consent of instructor
Individual projects in orchestration, conducting and score reading, theory, history, composition, electronic music. May be repeated for credit. Formerly offered as MUS 528B.

MUS 5283. Special Projects. Units: 3

Semester Prerequisite: consent of instructor. Quarter Prerequisite: consent of instructor
Individual projects in orchestration, conducting and score reading, theory, history, composition, electronic music. May be repeated for credit. Formerly offered as MUS 528C.

MUS 5750. Internship in Music. Unit: 1

Semester Prerequisite: Permission of department and senior standing
Supervised work in a commercial, industry, or arts managements setting. May be repeated twice for a maximum of 2 units. Assumes 45 hours of work per unit of credit. Graded Credit/No credit.

MUS 5751. Internship in Music Technology 1. Unit: 1

Quarter Prerequisite: MUS 347, MUS 429, and consent of instructor
Semester Corequisite: MUS 2660 or 2670 and permission of department
Supervised work in a public or private setting that provides professional experience in the field of music technology. May be repeated three times for credit. Generally assumes 45 hours of work per unit of credit. Graded Credit/No credit.

MUS 5752. Internship in Music Technology 2. Units: 2

Semester Prerequisite: MUS 2660 or 2670 and permission of department
Supervised work in a public or private setting that provides professional experience in the field of music or audio technology. Generally assumes 45 hours of work per unit of credit. Graded Credit/No credit.

MUS 5753. Internship in Music Technology 3. Units: 3

Semester Prerequisite: MUS 2660 or 2670 and permission of department
Supervised work in a public or private setting that provides professional experience in the field of music technology. Generally assumes 45 hours of work per unit of credit. Graded Credit/No credit.

MUS 5754. Internship in Music Therapy. Units: 4

Semester Prerequisite: MUS 4700
The internship provides students with advanced training and experience in the therapeutic setting. Students must take MUS 5754 twice for a total of 8 internship units which requires around 1,020 hours of supervised clinical work over both enrollments, bringing the student to at least 1,200 hours of supervised clinical work over the course of their degree. Graded Credit/No Credit. Department consent required.

MUS 5980. Senior Project. Unit: 1

Quarter Prerequisite: senior standing, completion of 300-level applied study requirements, and consent of department
Independent study with applied music instructor or principal instructor in area of emphasis. Consent required. Formerly MUS 598.

MUS 5981. Music Education Senior Project. Unit: 1

Semester Prerequisite: MUS 4100 or MUS 4110 and acceptance to the Music Education concentration in the Bachelor of Music
Capstone research or creative project for students accepted into the Music Education concentration of the Bachelor of Music degree.

Natural Sciences (NSCI)

Courses

NSCI 1000. New Allied Health Student Seminar. Unit: 1

Introduction to the College of Natural Science and CSUSB to enhance the intellectual, cultural and personal development of each student. This course is designed to help Allied Health students learn how to cultivate effective study strategies, time management, metacognition, and critical thinking and habits that will support their success in college and their future career. Students will explore diverse career pathways available to majors in the natural sciences and reflect on how their interests, values, and strengths align with these opportunities. Graded ABC/no credit. May be taken only by first time students during their first year of attendance.

NSCI 1001. Transfer Allied Health Student Seminar. Unit: 1

Introduction to the College of Natural Science and CSUSB to enhance the intellectual, cultural and personal development of each student. This course is designed to help Allied Health transfer students learn how to cultivate effective study strategies, time management, metacognition, and critical thinking and habits that will support their success in college and their future career. Students will explore diverse career pathways available to majors in the natural sciences and reflect on how their interests, values, and strengths align with these opportunities. Graded ABC/no credit. May be taken only by transfer students during their first year of attendance.

NSCI 1010. New STEM Student Seminar. Unit: 1

Introduction to the College of Natural Science and CSUSB to enhance the intellectual, cultural and personal development of each student. This course is designed to help STEM students learn how to cultivate effective study strategies, time management, metacognition, and critical thinking and habits that will support their success in college and their future career. Students will explore diverse career pathways available to majors in the natural sciences and reflect on how their interests, values, and strengths align with these opportunities. Graded ABC/no credit. May be taken only by first time students during their first year of attendance.

NSCI 1011. Transfer STEM Student Seminar. Unit: 1

Introduction to the College of Natural Science and CSUSB to enhance the intellectual, cultural and personal development of each student. This course is designed to help STEM transfer students learn how to cultivate effective study strategies, time management, metacognition, and critical thinking and habits that will support their success in college and their future career. Students will explore diverse career pathways available to majors in the natural sciences and reflect on how their interests, values, and strengths align with these opportunities. Graded ABC/no credit. May be taken only by transfer students during their first year of attendance.

NSCI 1110. Reacting to the Past: Natural Sciences Perspectives. Units: 3

Examination of a critical change in the natural sciences through the study of the context and impact of a specific idea, innovation or discovery. Using the Reacting to the Past approach, students play complex role-playing games informed by important historical sources (specific themes and topics may vary). Students will develop skills in information literacy, collaboration, speaking, and writing as they pursue the objectives of their assigned role by convincing classmates of their views. Following the game, debriefing will facilitate deeper understandings of the focus concepts and provide reflection about how learning occurred. These skills are critical foundations of success in any field of study at the University and beyond. Satisfies Big Ideas that Change the World: Exploring Ideas, Innovations, Discoveries pathway.

NSCI 1200. Science, Environmental Sustainability and Social Responsibility. Units: 3

Exploration of scientific ways of thinking in the context of environmental sustainability. How scientific knowledge is created and how it is communicated to those who use it to solve environmental problems and to guide responsible action. Emphasis on acquisition of academic skills that will be transferrable to other courses. Learning to see the world and environmental issues through the lens of scientific and mathematical analysis and reflection on how this lens differs from other lenses. Learning how scientific knowledge is created through collaborative processes among those with diverse perspectives. Appreciation of the scientific literature as a professional conversation that expands our understanding of the environment in which we live. Group projects will apply scientific thinking and other approaches to solving environmental problems affecting our local and global communities. Satisfies Environmental Sustainability.

NSCI 1300. Survey of Chemistry and Physics. Units: 3

Introduction to principles of chemistry and physics. Chemistry topics include chemical principles, nomenclature, and molecular structure. Physics topics include Newtonian mechanics, electromagnetism, relativity, quantum theory, and nuclear and particle physics. Intended for students with little to no background in chemistry or physics. This course is for articulation only and will not be offered.

NSCI 2020. The Science of Cooking. Units: 3

Application of scientific principles to the preparation of food. Scientific topics include heat transfer, thermodynamics, density, anatomy, biochemistry, and the chemical transformations of ingredients. Application of scientific methods in measurement, inquiry, recipe analysis and modification, and experimental design. Satisfies GE B1/5A.

NSCI 2300. Introduction to the Natural Science. Unit: 1

Introduction to the Natural Science program, its learning outcomes, and potential career options. Development of active learning and metacognitive skills. Assistance with planning a set of courses that will prepare students for their career goals. Initiation of an e-portfolio to track student achievement of the program's learning outcomes.

NSCI 3001. Scientific Perspectives on Global Challenges. Units: 3

Semester Prerequisite: Lower-division GE 2, 5A-5C must be completed. Must attain junior or senior status

Global focus on the opportunities and challenges of living in an increasingly technological, globalized world. Students learn to connect their field of study to global issues such as pandemics, artificial intelligence, climate change, sustainability, health disparities, pollution, new dynamics of vector-borne diseases, obesity, physical inactivity, climate health, and scientific, medical and environmental justice, etc. The specific topics covered will depend on instructor. Using critical thinking skills, group projects, information literacy, scientific readings, group discussion and scaffolded writing with revision after feedback, students expand their knowledge about the issue and learn to communicate scientific research with those outside the scientific community. Students also create an individual development plan to help them prepare for the career path of their choice and to increase awareness of their roles and responsibilities to become involved in and to work towards resolution of one of these global conditions. Satisfies GE B5/UD-5, G, WI designations.

NSCI 3010. Introduction to STEM and STEM Research. Units: 2

Introduction to resources for upper division transfer students, including the library, financial aid, Office of Student Research, and the Career Center. Presents expectations for and tools to help achieve success for students, including active/collaborative learning, reflective learning, and how to pursue undergraduate research and internships. Satisfies WI designation.

NSCI 3040. Introduction to Math & Science Pedagogy. Units: 2

Basic concepts in how people learn and how best to apply that to a classroom setting. Topics may include questioning strategies, prior knowledge, conceptual framework, metacognition, group work, and equity. For students working as a teaching assistant in College of Natural Science courses, or those interested in teaching in STEM or healthcare fields.

NSCI 3250. Perspectives on Gender. Units: 3

Semester Prerequisite: Junior or senior standing

This interdisciplinary course uses scientific, humanistic, and social science perspectives to foster an understanding of how gender functions in individual lives, societies, and cultures. (Offered as CAL 3250, SSCI 3250 and NSCI 3250. Students may receive credit for only one of these courses.) Satisfies GE B5/UD-5, DI designation.

NSCI 3300. Natural Science Mid-Program Assessment. Unit: 1

Semester Prerequisite: NSCI 2300

Mid-program assessment of the Natural Science program learning outcomes. Feedback on e-portfolio development. Continued development of active learning and metacognitive skills.

NSCI 3368. U-RISE Seminar I. Units: 2

Semester Prerequisite: Admissions to the URISE program and consent of instructor

A selected examination of original research articles in behavioral and biomedical sciences. Students will learn to critically read, critique, and present published scientific findings. Offered as NSCI 3368, PSYC 3368, and SSCI 3368 (students may receive credit for only one of these courses). Enrollment is limited to students whose formal application to the Undergraduate Research Training Initiative for Student Enhancement (U-RISE) program is approved. Formerly offered as NSCI 368, PSYC 369, SSCI 368.

NSCI 4100. Natural Science Capstone. Units: 3

Semester Prerequisite: Junior or Senior standing

This course provides students with a structured, developmental experience spanning the Natural Science program. Students will explore science-related career pathways, plan their academic trajectory, and engage in ongoing reflection and metacognitive skill development. Throughout the course, students will build and refine an e-portfolio that documents their progress toward program learning outcomes. In the culminating portion, students will integrate knowledge across the natural sciences and apply it to a complex problem, issue, or policy relevant to human communities. The course includes reflective essays, project-based learning, and oral/written communication to prepare students for professional or graduate pathways. Intended for Natural Science majors; to be completed in the student's final year.

NSCI 4300. Natural Science Capstone. Units: 2

Semester Prerequisite: NSCI 3300

Integration of knowledge and skills gained in the Natural Science program and application to complex problems, issues and policies related to science. Individual or group projects. Completion of an e-portfolio documenting and reflecting on achievement of the program learning outcomes and preparation for the student's selected career option(s). This course is intended for students in the Natural Science major and should be taken in the student's final semester at CSUSB.

NSCI 4468. U-RISE Seminar II. Units: 2

Semester Prerequisite: NSCI 3368, PSYC 3368, or SSCI 3368. Quarter Prerequisite: NSCI 368, PSYC 368 or SSCI 368

A selected examination of original research articles in behavioral and biomedical sciences focuses on improving scientific writing skills, shaping long-term research projects, and developing research funding proposals. Offered as PSYC 4468, NSCI 4468, and SSCI 4468 (students may receive credit for only one of these courses). Enrollment is limited to students whose formal application to the Undergraduate Research Training Initiative for Student Enhancement (U-RISE) program is approved. Formerly known as NSCI 468, PSCI 468, SSCI 468.

NSCI 5410. Commercializing Entrepreneurial Innovation. Units: 3

Examines the process of commercializing innovations and emerging technologies using a university-owned/federal lab-owned patent as the primary focus. Emphasis on bridging scientific discovery with entrepreneurial application to understand how to transition early-stage research and development to scalable ventures. Topics include the scientific methodology of entrepreneurship, intellectual property protection, data analytics and visualization, simulations, AI-driven market modeling, licensing, process optimization, and commercialization planning.

NSCI 5440. Developing the New Venture. Units: 3

Semester Prerequisite: ENTR 5430, ENTR 5435
Introduction to the process of developing a new venture concept. Focus on transitioning ideas into a viable business venture with special emphasis on developing a sustainable business model and a hands-on business planning experience. Cross-listed as NSCI 5440; students cannot receive credit for both.

NSCI 5951. Independent Study. Unit: 1

Investigations conducted under the direction of a faculty member. NSCI 5951-5953 may be repeated for credit up to a total of 6 units. Department consent required.

NSCI 5952. Independent Study. Units: 2

Investigations conducted under the direction of a faculty member. NSCI 5951-5953 may be repeated for credit up to a total of 6 units. Department consent required.

NSCI 5953. Independent Study. Units: 3

Investigations conducted under the direction of a faculty member. NSCI 5951-5953 may be repeated for credit up to a total of 6 units. Department consent required.

Nursing (NURS)

Courses

NURS 2602. Foundational Concepts in Professional Nursing. Units: 2

Quarter Prerequisite: Admission to the nursing major
Introduction to the profession of nursing, including its history, educational preparation, credentials for professional practice, Code of Ethics, safety concerns in patient care, clinical reasoning, understanding the health care environment, legal responsibilities, political process, leadership and management roles. Department consent required.

NURS 2821. Foundational Theory and Skills for Nursing Practice. Units: 6

Semester Prerequisite: Admission to nursing major and BIOL 2200, BIOL 2230, BIOL 2240, PSYC 2201. Quarter Prerequisite: Admission to nursing major and BIOL 220, BIOL 223, BIOL 224
Semester Corequisite: NURS 2602, 3016
Focuses on the nursing care of adult patients and the beginning competencies required for application of the concepts of professional communication, infection control, patient safety, patient teaching, clinical skill development, clinical reasoning, and person-centered care. Concepts of communication, nursing process as clinical decision-making strategy, and critical thinking skills are introduced as essential to the practice of professional nursing. Emphasis is placed on the therapeutic interventions of safety, hygiene and comfort, health assessment and health promotion to promote physiologic function and overall population health and well-being, manage symptoms, restore function, and cope with illness. Department consent required. Matearials fee required.

NURS 3010. Role Transition to Professional Nursing Practice. Units: 3

Provides the conceptual basis for the practice of nursing, built around a core of theories and key concepts, to facilitate transition of the Registered Nurse to baccalaureate-prepared nursing practice. Focus is on the roles of the professional nurse as advocate, educator, provider and coordinator of care. Explore and apply concepts and theories related to professional nursing practice with individuals, families, communities, and populations in various settings and across the lifespan. Critical reading, discussion, and writing assignments on application of theories and concepts related to patient care in clinical settings. Enrollment restricted to students in RN to BSN program or RN-BSN/CEP. Department consent required. Satisfies WI designation for nursing students.

NURS 3016. Health Assessment. Units: 3

Quarter Prerequisite: Admitted to the nursing major. BIOL 220, BIOL 223, BIOL 224, PSYC 201
Quarter Corequisite: NURS 202
Theory and practice of health assessment for nursing practice. Holistic, culturally and developmentally sensitive approaches to assessment across lifespan are emphasized, including professional communication, establishing therapeutic relationships, health promotion, recognition of normal and abnormal findings, and accurately document findings. Department consent required. Materials fee required. One hour lecture, six hours lab.

NURS 3026. Health Assessment RN. Units: 3

Semester Prerequisite: Enrollment restricted to Registered Nurses or students admitted to the RN to BSN program track and BIOL 2200, BIOL 2230, BIOL 2240
Theory and practice of health assessment for nursing practice. Holistic, culturally and developmentally sensitive approaches to assessment across lifespan are emphasized, including professional communication, establishing therapeutic relationships, health promotion, recognition of normal and abnormal findings, and accurately documenting findings. Department consent required. Materials fee required. (1.5 hours seminar, 4.5 hours lab per week).

NURS 3080. Pathophysiologic Concepts for Nursing Practice. Units: 3

Quarter Prerequisite: BIOL 223, BIOL 224; NURS 316
Exploration of the pathophysiological processes and changes associated with acute and chronic diseases and injuries across the lifespan. Focuses on the mechanisms of disease, exploring how disruptions in normal physiological functions lead to clinical manifestations, examining the pathophysiology of major body systems, and integrating knowledge of anatomy, physiology, and microbiology with the clinical symptom manifestations. Emphasis on critical thinking, critical reasoning, and the application of pathophysiological principles to nursing care. Department consent required.

NURS 3082. Pharmacology and Therapeutics for Nursing Practice. Units: 3

Quarter Prerequisite: CHEM 205; NURS 316, NURS 200 & 201
Emphasis on principles of pharmacology and medication therapy across the lifespan, with a focus on nursing roles and responsibilities. Application of pharmacogenetic concepts to understanding of medication therapy. Department consent required.

NURS 3100. Pathophysiology and Pharmacology. Units: 4

A systematic review of the principles of pharmacology with a focus on specific pharmacological and pharmacokinetic agents in relation to effects on body systems. A review of related pathophysiological disruptions to normal system functioning and the impact of these alterations on the individual throughout the life span. Includes focus on genetics and disease, and pharmacogenetics. Provides pathophysiological rationale for interprofessional and nursing interventions. Enrollment restricted to students in RN to BSN program or RN-BSN/CEP. Department consent required.

NURS 3221. Nursing Care of Adults & Older Adults I. Units: 6

Quarter Prerequisite: NURS 202, NURS 200, NURS 201

Focuses on the nursing care of adult patients experiencing acute and chronic diseases and illness. Emphasizes evidence-based practice and the application of clinical judgment to manage patients' bio-psychosocial needs. Explores a wide range of health issues affecting various body systems, with attention to prevention, early detection, treatment, and rehabilitation. Includes hands-on clinical experiences and simulations that promote/foster critical thinking, ethical decision-making, and collaboration with interdisciplinary teams to provide patient-centered care to diverse adult and older adult patient populations. Department consent required. Materials fee required. Three hours lecture, nine hours lab.

NURS 3530. Global Nursing. Units: 3

International health concerns affecting the delivery of nursing and health care in the U.S. and around the world. Investigation of global health issues and effective solutions to promote health of populations. Formerly offered as NURS 353; students may not earn credit for both courses. Department consent required.

NURS 3610. Patient Education, Health Promotion and Care Coordination. Units: 3

Integration, application, and evaluation of health education; health promotion; health behavior change; and self-management theory, research, and interventions in nursing practice. Explores effects of developmental, motivational, and sociocultural factors on health behavior change. Additional focus on care coordination and case management models, nursing roles, and strategies used for interprofessional management of high-risk and chronically ill populations in community settings. Emphasis on comprehensive care coordination, brokerage, monitoring, discharge planning, patient/family advocacy, and strategies for application to direct care. Enrollment restricted to students in RN to BSN program or RN-BSN/CEP. Department consent required.

NURS 3633. Nursing Care of Children & Families. Units: 5

Quarter Prerequisite: NURS 380, NURS 382, NURS 220 and 221

Introduction and application of child and family theory in family-centered culturally sensitive care of children and adolescents. Includes pediatric clinical skill development and application of clinical judgment using the nursing process. Focus on growth and development, common acute and chronic illnesses in the pediatric population. Department consent required. Materials fee required. Three hours lecture, six hours clinical lab.

NURS 3635. Nursing Care of Women, Infants, & Families. Units: 5

Quarter Prerequisite: NURS 380, NURS 382, NURS 220 & 221

Introduction and application of maternal-child nursing and family theory in family-centered perinatal care for mother, neonate, and family. Focus on culturally-sensitive health promotion for pregnant women and neonates, risk reduction and management of normal and high-risk pregnancy, labor, delivery, and neonatal care. Includes clinical skill development and application of clinical reasoning using the nursing process. Department consent required. Materials fee required. Three hours lecture, six hours clinical lab.

NURS 3640. Introduction to Theories of Nursing & Health. Units: 3

Introduction to nursing theories, nursing conceptual models, and borrowed theories pertinent to professional nursing practice. Focuses on the relationship of theory to nursing research and practice, and the application of theories to selected clinical practice situations. Apply metaparadigm of nursing, holistic, individualized, cultural care, Diversity, Equity, Inclusion (DEI), and social determinants of health integrated in nursing practice. Includes critical reading, discussion, and writing assignments on the application of theories and concepts related to client care in support of professional collaboration with interprofessional team members, patients, families, and communities, to improve outcomes, optimize care, enhance the healthcare experience, and advocate for comprehensive and safe delivery of healthcare. Satisfies WI designation. Department consent required.

NURS 3960. Selected Topics in Nursing. Units: 2

Quarter Prerequisite: Consent of department chair prior to registration

Investigation of selected nursing topics. May be repeated for credit as topics change. Department consent required.

NURS 4222. Nursing Research and Evidence-Based Practice. Units: 3

Introduction to foundational understanding of the research process and its application in nursing practice. Through a competency-based approach, students will develop the skills necessary to effectively evaluate both quantitative and qualitative research methods commonly employed in nursing and healthcare contexts. Ethical standards governing research conduct will be emphasized throughout the course. Students will utilize evidence-based practice principles to inform nursing research and decision-making. Department consent required. Satisfies GE B5/UD-5 for nursing students.

NURS 4415. Psychiatric & Mental Health Nursing Practice. Units: 5

Quarter Prerequisite: NURS 220 and NURS 221, NURS 332 and NURS 333, NURS 334 and 335

Introduction and application of theories of psychiatric/mental health nursing. Emphasis on mental health promotion and early intervention, mental health care in the United States, culturally sensitive nursing care of common acute and chronic psychiatric and mental health conditions in individuals across the lifespan and in the context of families and social systems. Focus on skill development and application of clinical reasoning using the nursing process. Department consent required. Materials fee required. Three hours lecture, six hours clinical lab.

NURS 4417. Community & Public Health Nursing Practice. Units: 5

Semester Prerequisite: NURS 3221, NURS 3633, NURS 3635
Semester Corequisite: NURS 4222, NURS 4415
Focuses on the professional nurse's role in working with culturally diverse populations in the community, exploring contemporary public health problems, and working collaboratively with the community as part of the interdisciplinary team. Introduction to and application of social and health promotion theories and frameworks that guide community-based, population- focused practice and research. Skill development in community assessment, program planning, and interventions to help identified populations within the community achieve and maintain their optimum level of health considering social determinants of health and relevant health policy. Satisfies GE D4/UD-4 (for nursing students), DI designation. Department consent required. Materials fee required. Three hours lecture, six hours clinical lab.

NURS 4510. Community/Public Health Promotion. Units: 3

Semester Prerequisite: NURS 3026, NURS 3100, & NURS 3610
Semester Corequisite: NURS 4512
Focuses on the professional nurse's role in working with culturally diverse populations in the community, exploring contemporary public health problems, and working collaboratively with the community as part of the interprofessional team. Includes social and health promotion theories and frameworks that guide community-based, population-focused practice and research to develop skills in community assessment, program planning, and interventions to help identified populations within the community achieve and maintain their optimum level of health. Attention to social determinants of health and relevant health policy. Enrollment restricted to students in RN to BSN program or RN-BSN/CEP. Department consent required. Satisfies GE D4/UD-4, DI designation, for nursing students.

NURS 4512. Community/Public Health Promotion Practicum. Units: 3

Semester Prerequisite: NURS 3026, NURS 3100, & NURS 3610
Application of skills to promote the health of culturally diverse communities and coordinate care of chronically ill, high-risk, and vulnerable populations in the community setting. Focuses on community- and population-level care delivery. Emphasis on community-level interventions for primary and secondary prevention. Additional emphasis on population-level care for maximizing functional and self-care ability, symptom management, improvement of quality of life, and reduction of need for hospitalization. Implementation of nursing care coordination/ case management strategies and interventions is emphasized, including efficient, effective and comprehensive care coordination, brokerage, monitoring, and patient education. Satisfies GE DI designation. Enrollment restricted to students in RN to BSN program or RN-BSN/CEP. Department consent required. One hour seminar, six hours clinical lab. Materials fee required.

NURS 4610. Nursing Leadership. Units: 3

Organizational theory and management practices applied to health care systems. The role of the nurse manager as leader and change agent in the delivery of care to patient groups, populations and communities within complex and diverse health care settings. Strategies for leading and managing practice changes are explored. Contemporary issues affecting the delivery of health care and the discipline and professional practice of nursing are explored. Enrollment restricted to students in RN to BSN program or RN-BSN/CEP. Department consent required.

NURS 4612. Nursing Leadership Practicum. Units: 2

Application of organizational, leadership, and management theory in health care settings. Development of skills and competencies for the nurse leader and manager across health care settings. Operationalizes the role of the nurse as leader and change agent in the delivery of care to patient groups, populations and communities within complex and diverse health care settings. Enrollment restricted to students in RN to BSN program or RN-BSN/CEP. Department consent required. Materials fee required.

NURS 4833. Nursing Care of Adults & Older Adults II. Units: 7

Quarter Prerequisite: NURS 320 and NURS 323, NURS 422
Introduction of advanced medical-surgical nursing theory and evidence-based practice in the care of adults and older adults experiencing high-acuity, complex acute and chronic diseases. Application of clinical judgment using the nursing process with emphasis on continued clinical skill development, acute intervention for critical illness, and management of complex chronic disease, reduction of morbidity and disability, the nursing role in palliative and end-of-life care and organ donation. Department consent required. Materials fee required. Three hours lecture, twelve hours clinical lab.

NURS 4840. Leadership & Management in Nursing. Units: 2

Semester Prerequisite: NURS 3640 and NURS 4222. Quarter Prerequisite: NURS 340 and NURS 422
Semester Corequisite: NURS 4833 and NURS 4920
Introduction to management, leadership, organizational systems and change theory. Emphasis on the role of the nurse, individually and collectively, within organizations and within the greater sociopolitical context, in ethically leading change to improve health care access, care quality and safety, and health outcomes. Application of strategies for leading and managing change, with a focus on evidence-based practice improvements in selected health care settings. Department consent required.

NURS 4920. Integration of Knowledge for Professional Nursing Practice. Units: 2

Quarter Prerequisite: NURS 400, NURS 406
Integration of core nursing concepts, theories, and competencies in preparation for transitioning to professional nursing practice. Department consent required.

NURS 5411. Advanced Health Assessment Across the Life Span. Units: 3

Semester Prerequisite: NURS 5422 Advanced Pathophysiology. Quarter Prerequisite: Permission of the Nursing Department
Advanced competency in health assessment, including health history, interviewing, review of systems, and a comprehensive physical examination for persons across the lifespan. Based on a foundation of anatomy, physiology, pathophysiology, oral and written communication skills, and clinical application of the nursing process for nurses in advanced roles. Formerly offered as NURS 541, students may not earn credit for both courses. Department consent required. Two hours seminar; three hours practicum per week.

NURS 5422. Advanced Pathophysiology. Units: 3

Quarter Prerequisite: Permission of the Nursing Department
Principles of advanced pathophysiology as the foundation for recognizing and appropriately interpreting changes in normal function, including symptom recognition and diagnostic markers of illness. Topics include pathophysiology of disorders of all body systems, with an emphasis on prevalent conditions. Formerly offered as NURS 542; students may not earn credit in both courses. Department consent required.

NURS 5433. Advanced Pharmacology. Units: 3

Semester Prerequisite: NURS 5411 and NURS 5422. Quarter Prerequisite: permission of the Nursing Department
Pharmacologic principles applied to advanced clinical nursing practice with diverse populations. Topics include pharmacotherapy of cardiovascular, psychiatric, endocrine, respiratory, gastrointestinal, bone and joint, infectious, reproductive, and dermatological disorders. Introduction to clinical toxicology. Formerly offered as NURS 543; students may not earn credit in both courses. Department consent required.

NURS 5544. Integrated Pathophysiology, Health Assessment, & Pharmacology. Units: 3

This course includes principles of advanced pathophysiology, pharmacology and competency in health assessment. Emphasis is on introduction to the interconnectedness of these three disciplines for a comprehensive approach to assessment, diagnosis and treatment of prevalent health conditions. The student will develop an advanced ability to formulate a holistic understanding of disease processes and pharmacotherapeutic management. The course's design is for master's level nursing students preparing for non-provider roles. Formerly offered in separate courses, NURS 5411 Advanced Health Assessment throughout the Life Span, 5422 Advanced Pathophysiology, and 5433 Advanced Pharmacology. If these three courses have been successfully taken, NURS 5433 may not be taken for credit. Department consent required.

NURS 5951. Independent Study. Unit: 1

Semester Prerequisite: Overall GPA of 3 or better. Quarter Prerequisite: Minimum overall grade point average of 3
Research conducted under the direction of a faculty member. Written project proposal required, filed and approved before registration for the course. Instructor consent and department consent required. A total of three units from NURS 5951 and/or 5952 may be applied toward graduation. Formerly NURS 595A.

NURS 5952. Independent Study. Units: 2

Semester Prerequisite: Minimum overall grade point average of 3. Quarter Prerequisite: Minimum overall grade point average of 3
Research conducted under the direction of a faculty member. Approval of a written project proposal required before registration for the course. Instructor consent and department consent required. May be repeated up to two times; a total of three units from NURS 5951 and/or NURS 5952 may be applied toward graduation. Formerly NURS 595B.

NURS 6000. Population Health Assessment. Units: 4

Semester Prerequisite: NURS 6455 Advanced Nursing Research. Quarter Prerequisite: classified graduate standing in MSN program and current RN licensure and consent of the department
Examines strategies and processes for assessing the health of communities, including environmental health and access to health care. Analysis of theoretical frameworks and assessment models applicable to population health assessment. Consideration of health issues faced by special populations. Formerly offered as NURS 600; student may not earn credit in both courses. Department consent required. Two hours seminar and six hours practicum per week.

NURS 6005. Intro to Advanced Nursing Practice. Units: 2

This course introduces the history, current roles, expected knowledge and competencies, scopes of practice, and regulation of professional nurses in advanced practice and advanced clinical practice. Competencies in population health, health informatics, evidence-based practice for safety and quality, interprofessional collaboration, navigation of complex organizational systems, and leadership are emphasized. Ethical, legal, political, and economic aspects of advanced nursing practice are introduced. Formerly offered as NURS 6308; students may not earn credit in both courses. Department consent required.

NURS 6010. Epidemiology & Biostatistics. Units: 3

This course emphasizes the application of epidemiological and biostatistical principles to advance population health. The epidemiology component focuses on assessing patterns of health and disease, identifying disparities, and evaluating population-level interventions. The biostatistics component prepares students to analyze health-related data by selecting and applying appropriate statistical methods, utilizing statistical software, and interpreting results to inform evidence-based practice. Formerly offered as NURS 6425. Department consent required.

NURS 6011. Preparation for Success in Graduate Education. Unit: 1

Quarter Prerequisite: consent of department
Overview of technologies used for graduate education, research, and writing. Emphasis on applications for learning, library research, and scholarly writing. Formerly offered as NURS 601, students may not earn credit in both courses. Department consent required.

NURS 6015. Application of Theory and Research for Evidence Based Practice & Quality Improvement. Units: 3

Semester Prerequisite: NURS 6005, NURS 6010
This course explores nursing knowledge within historical, philosophical, and professional contexts, examining major influences and current issues in the discipline as well as Consideration of research ethics including human subjects' protection. The focus is on the integration of knowledge development, theory, research and data science, including the analysis of research findings and their practical application to support evidence-based practice (EBP), patient safety, and quality outcomes in advanced nursing practice with diverse populations. Formerly offered in separate courses, NURS 6558 Advanced Nursing Theory and NURS 6455 Advanced Nursing Research. Credit for NURS 6015 may not be earned after completion of both NURS 6558 and NURS 6455. Department consent required.

NURS 6020. Population Health Promotion I: Ethical Leadership in Practice and Policy. Units: 3

Semester Prerequisite: NURS 6005, NURS 6015
Introduction to advanced population health promotion in ethical leadership in practice and policy. Analysis of leadership theoretical framework, and organizational leadership principles for data driven decision making process. Investigation of social, ethical, political, economic and ideological forces which shape the interdisciplinary health policy making process, legislation and the impact on professional advanced practice. Emphasis on the development of leadership competencies for population health promotion. Department consent required.

NURS 6100. Program Planning and Evaluation. Units: 4

Semester Prerequisite: NURS 6000 Population Health Assessment.
Quarter Prerequisite: NURS 600, current RN licensure and consent of department
Program planning, implementation and evaluation to improve health and meet health care needs of populations. Includes fiscal management and identifying grant sources. Formerly offered as NURS 610; students may not earn credit in both courses. Department consent required. Two hours seminar and six hours practicum per week.

NURS 6120. Population Health Promotion II: Assessment of a Population's Health. Units: 4

Semester Prerequisite: NURS 6015, NURS 6020
This course examines strategies and processes for assessing the health of communities and populations, with emphasis on identifying social determinants of health, community assets, and health disparities. Analyzes theoretical frameworks, population health data sources, and assessment models used in advanced nursing practice. Considers ethical and collaborative approaches to engaging stakeholders for identifying the needs of a target population. Emphasizes the use of public health datasets and informatics tools to support evidence-based decision-making. Applied clinical experiences reinforce leadership, professionalism, interprofessional collaboration, and data-informed decision-making within a variety of population health delivery settings. Formerly offered as NURS 6000 Population Health Assessment; students may not earn credit in both courses. Two hours of seminar and six hours of practicum per week; practicums include in-person, instructor-supervised and preceptor-supported experiences. Department consent required.

NURS 6200. Health Policy Leadership. Units: 2

Quarter Prerequisite: NURS 610, current RN licensure, and consent of department
Social, ethical, political, economic, and ideological forces that shape health policy and law. Informed participation in interdisciplinary policy-making processes; impact of health policy on professional practice. Emphasis on leadership skills to champion solutions for health. Formerly offered as NURS 620; students may not earn credit in both courses. Department consent required.

NURS 6205. Nurse Educator: Curriculum & Instruction. Units: 4

Semester Prerequisite: NURS 6005, NURS 6015, NURS 6020
This course provides an in-depth exploration of teaching-learning theories as a foundation for curriculum development, instructional design, and learner facilitation in nursing education. Emphasis is placed on course and lesson planning, evidence-based teaching strategies, and the integration of technology to support inclusive, person- and population-centered learning. Students will analyze social, cultural, ethical, and policy influences on curriculum design and apply principles of quality, safety, and equity to educational practice. Students will design, implement, and evaluate instructional methodologies that foster professional identity, interprofessional collaboration, and leadership in diverse learning environments. Ethical and professional issues in education, including legal responsibilities and reflective practice, are considered throughout. Formerly offered as NURS 6588; may not earn credit in both courses. Department consent required.

NURS 6210. Nurse Educator: Assessment & Evaluation. Units: 3

Semester Prerequisite: NURS 6205
Introduction to outcome- and competency-based learner assessment and evaluation, guided by widely accepted nurse educator standards of practice and competencies as well as building on knowledge of and beginning competency in curriculum development and instruction. Theory and research on educational assessment and evaluation are surveyed. Assignments support the development and application of evidence-based assessment strategies. Educational program accreditation and evaluation approaches are introduced with emphasis on the relationship between program evaluation and continuous quality improvement. Formerly offered as NURS 6598 Nursing Education: Assessment and Evaluation; students may not earn credit in both courses. Department consent required.

NURS 6215. Nurse Educator: Technology for Instruction & Evaluation. Units: 2

Semester Prerequisite: NURS 6205
Semester Corequisite: NURS 6210
This course explores the integration of instructional technologies to enhance teaching, learning, assessment, and evaluation in academic and clinical nursing education. Students will apply evidence-based strategies to select and evaluate educational technologies that support learner outcomes. Through experiential learning, students will develop skills in digital pedagogy, informatics, and learner-centered assessment, while addressing ethical and accessibility considerations in technology use. Formerly offered as NURS 6608 Nursing Education: Technology for Instruction and Evaluation; students may not earn credit in both courses. Department consent required.

NURS 6220. Population Health Promotion III: Health Program Planning. Units: 4

Semester Prerequisite: NURS 6120
Population Health Promotion III is project-based in nature. Building on the assessment of Population Health II, the focus of the course is on population health promotion program planning, including the implementation and evaluation plans. Under the direction of a preceptor/consultant and supervision of course faculty, the student will progress through the program planning process, with consideration of the resources and organizational context of the practicum setting. Formerly offered as NURS 6100 Program Planning and Evaluation; students may not earn credit in both courses. Two hours seminar and six hours practicum per week; practicums include in-person instructor-supervised and preceptor-supported experiences. Department consent required.

NURS 6225. Nurse Educator: Clinical Educator Internship. Unit: 1

Semester Prerequisite: NURS 6205
Semester Corequisite: NURS 6210, NURS 6215
This clinical internship provides graduate nursing students with guided experience in the role of the facility-based nurse educator in acute, sub-acute, long term, or ambulatory clinical settings. Over 45 hours of supervised practice, students will engage in activities such as staff onboarding, annual competency validation, regulatory compliance training, and the design and delivery of staff education. Emphasis is placed on integrating evidence-based strategies, fostering professional development, and supporting safe, high-quality patient care through effective education and modeling expert clinical practice. The internship develops advanced skills in assessment, teaching, and leadership within the dynamic context of clinical education. Graded credit/no credit. Three hours internship per week. Department consent required.

NURS 6308. Advanced Nursing Roles. Unit: 1

Quarter Prerequisite: Consent of department
Overview of advanced nursing roles and elements of advanced nursing practice, including: expert clinical practice, education, research application, interprofessional collaboration, coaching, consultation, and leadership. Formerly offered as NURS 630; students may not earn credit in both courses. Department consent required. Materials fee required.

NURS 6320. Population Health Promotion IV: Integration Practicum. Units: 2

Semester Prerequisite: NURS 6220
Semester Corequisite: NURS 6335, NURS 6902, NURS 6980
This course is project-based in nature and includes dissemination of results. Under the direction of a preceptor/consultant and supervision of course faculty, this practicum includes the implementation and evaluation of a population health project, with consideration of the resources and organizational context of the practicum setting. Formerly offered as NURS 6880 Advanced Role Practicum; students may not earn credit in both courses. Graded credit/no credit. Six hours practicum per week. Department consent required.

NURS 6335. Nurse Educator: Academic Teaching Internship. Units: 2

Semester Prerequisite: NURS 6210, NURS 6215, NURS 6225
Semester Corequisite: NURS 6320, NURS 6902, NURS 6980
This internship emphasizes integration and application of advanced nursing knowledge with a focus on the academic nurse educator role. Students broaden their understanding of faculty responsibilities by engaging in teaching, scholarship, and service activities that reflect the MSN Program Learning Outcomes and NLN Nurse Educator Competencies. Guided experiences provide opportunities to design and evaluate teaching-learning strategies, apply evidence-based practices in nursing education, and contribute to curriculum and program development. The internship also fosters leadership, professionalism, and role development within diverse educational environments. Graded Credit/No Credit; Six hours of internship per week. Department consent required.

NURS 6355. Biostatistics. Units: 3

Quarter Prerequisite: Consent of department
Statistical knowledge and tools including the basic concepts of biostatistics, quantitative methodology in epidemiology, clinical applications for evidence based practice, and statistical utility for decision making. Introduction to statistical analysis software; the process of instrument development, validity and reliability assessment, and pilot testing; decision theory; the analysis and evaluation of the methods, results and discussion sections of a research report. Department consent required. Formerly offered as NURS 635, students may not receive credit for both courses.

NURS 6425. Epidemiology & Biostatistics. Units: 4

Fundamentals of epidemiology and biostatistics as they relate to assessing and improving the health of populations. Examination of determinants of health and illness; factors contributing to health promotion, disease prevention, and use of health services. Statistical theory and methods for epidemiologic research; analysis and evaluation of public/population health research. Introduction to statistical analysis software. Formerly offered in separate courses, NURS 646 Epidemiology and NURS 635 Biostatistics. Credit for NURS 6425 may not be earned after completion of both NURS 646 and NURS 635. Department consent required.

NURS 6435. Health Informatics. Units: 3

Semester Prerequisite: NURS 6425 Epidemiology & Biostatistics
Principles and practices of health information systems, including administrative and clinical information systems, with applications for population health promotion, disease management, reduction of disparities, and quality and safety management. Emphasis on fundamental skills/competencies for information retrieval, data analysis, data visualization. Consideration of legal and ethical issues. Department consent required.

NURS 6455. Advanced Nursing Research. Units: 3

Semester Prerequisite: NURS 6011 Preparation for Success in Graduate Education; NURS 6558 Advanced Nursing Theory. Quarter Prerequisite: Consent of department

Overview of the research process including developing the research question, literature review, research design, sampling, data collection, and data analysis. Consideration of advanced nursing role in evidence-based practice. Use of meta-analysis, odds ratio, and risk ratio methods in population health research. Consideration of research ethics including human subjects' protection. Formerly offered as NURS 645; students may not earn credit in both courses. Department consent required.

NURS 6466. Epidemiology. Units: 3

Quarter Prerequisite: Consent of the department

Examination of the distribution and determinants of health and illness; factors contributing to health promotion and disease prevention; and factors influencing the use of health services. Examination of the terms and methods used to describe the health status of populations and investigate disease. Emphasizes a local to global perspective including implications for health care delivery, evaluation, and health policy. Department consent required. Formerly offered as NURS 646; students may not receive credit for both courses.

NURS 6548. Transcultural Healthcare. Units: 3

Quarter Prerequisite: Consent of department

Culturally sensitive assessment, planning, implementation and evaluation strategies for disease prevention and health promotion in diverse communities. Consideration of behaviors and views unique to how cultures impact health and equity. Formerly offered as NURS 654; students may not earn credit in both courses. Department consent required.

NURS 6558. Advanced Nursing Theory. Units: 2

Quarter Prerequisite: Classified standing in the MSN program or consent of department

Examines nursing knowledge in the context of history, philosophical perspectives, major influences, and current professional issues. Theoretical foundations of nursing as applied to the health and care of select populations. Formerly offered as NURS 655; students may not earn credit in both courses. Department consent required.

NURS 6575. Quality, Safety, Outcomes, & Case Management. Units: 3

Semester Prerequisite: NURS 6525 Epidemiology & Biostatistics; NURS 6435 Health Informatics

Foundations of quality, safety, outcomes, and case management. Principles, processes, and skills/ competencies related to quality, safety, outcomes, and case management. Emphasis on legal and ethical issues, leadership skills, and tools and technology. Department consent required.

NURS 6585. Organizational Leadership for Population Health. Units: 3

Semester Prerequisite: NURS 6575

Theory and principles of organizational leadership applied to promote the health of populations. Emphasis on leadership competencies including communication, knowledge of the health care environment including economics and policy, systems thinking, change management, and foundational business skills. Legal and ethical implications of population health for the organization. Department consent required. Two hours seminar; three hours practicum per week.

NURS 6588. Nursing Education: Curriculum and Instruction. Units: 3

Semester Prerequisite: NURS 6455. Quarter Prerequisite: Consent of department

Teaching-learning theory as a basis for curriculum development, instruction, and facilitation of learner development. Focus on curriculum development, course and lesson planning, and evidence-based and instructional methodologies. Ethical and professional issues in education considered. Formerly offered as NURS 658; may not earn credit in both courses. Department consent required.

NURS 6598. Nursing Education: Assessment and Evaluation. Units: 3

Semester Prerequisite: NURS 6588. Quarter Prerequisite: NURS 658 and consent of department

Assessment and evaluation theories and strategies applied to evaluation of learner outcomes and program outcomes. Accreditation standards and processes examined within the context of continuous quality improvement. Formerly offered as NURS 659; students may not earn credit in both courses. Department consent required.

NURS 6608. Nursing Education: Technology for Instruction & Evaluation. Units: 3

Semester Prerequisite: NURS 6588. Quarter Prerequisite: NURS 658 and consent of department

Semester Corequisite: NURS 6588

Overview of instructional technologies that support the teaching, learning, assessment, and evaluation processes. Formerly offered as NURS 660; students may not earn credit in both courses. Department consent required.

NURS 6752. Advanced Community/Public Health Internship. Units: 2

Semester Prerequisite: NURS 6000, NURS 6100, NURS 6435, NURS 6548. Quarter Prerequisite: Consent of the Department of Nursing

Semester Corequisite: NURS 6100, NURS 6548

Application of advanced community/public health nursing in diverse settings allowing for a population-focused practice. 90 clinical hours. Graded credit/no credit. Formerly offered as NURS 681; students may not earn credit for both courses. Department consent required.

NURS 6754. Advanced Community/Public Health Internship II. Units: 2

Semester Prerequisite: NURS 6752. Quarter Prerequisite: Consent of Department of Nursing

Clinical application of advanced community/public health nursing in diverse settings allowing for a population-focused practice. 90 clinical hours. Graded credit/no credit. Department consent required. Formerly offered as NURS 682. Students may not receive credit for both courses.

NURS 6880. Advanced Role Practicum. Units: 2

Semester Prerequisite: NURS 6100, NURS 6752, NURS 6585, NURS 6598. Quarter Prerequisite: Consent of department
Semester Corequisite: NURS 6608
Integration and application of advanced nursing knowledge from MS in Nursing core and concentration courses. Practicum activities permit demonstration of core MS in Nursing competencies as well as competencies specific to the student's selected concentration. Formerly offered as NURS 688. May be repeated for credit if applied toward an additional concentration or a post-master's certificate in a concentration other than one previously earned. Graded credit/no credit. Department consent required. Six hours practicum per week.

NURS 6901. Preparation for Comprehensive Examination. Unit: 1

Semester Prerequisite: Advancement to candidacy. Quarter Corequisite: NURS 999. Quarter Prerequisite: Advancement to candidacy
Semester Corequisite: NURS 6980
Independent review conducted under the direction of a faculty member to prepare for comprehensive examinations in the Master of Science in Nursing. Formerly offered as NURS 690; students may not earn credit in both courses. Department consent required.

NURS 6902. Preparation for Culminating Experience. Units: 2

Semester Prerequisite: NURS 6220, NURS 6225
Semester Corequisite: NURS 6320, NURS 6335, NURS 6980
Independent review of learning experiences across the entire Master of Science in Nursing (MSN) program, conducted under the direction of a faculty member, to prepare to demonstrate achievement of all MSN Program Learning Outcomes via the Comprehensive Examination. Department consent required.

NURS 6980. Comprehensive Examination. Units: 0

Semester Prerequisite: NURS 6220 & NURS 6225
An integrative, written examination designed to assess student's ability to think critically, integrate knowledge of the discipline of nursing pertinent to an advanced practice role, and demonstrate mastery of MS in Nursing program learning outcomes and developing competency in nurse education. Graded Credit/No Credit. Department consent required.

NURS 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

NURS 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

NURS 6992. Continuous Enrollment for Graduate Candidacy Standing. Units: 2

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

NURS 6993. Continuous Enrollment for Graduate Candidacy Standing. Units: 3

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

NURS 6994. Continuous Enrollment for Graduate Candidacy Standing. Units: 4

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

NURS 6996. Continuous Enrollment for Graduate Candidacy Standing. Units: 6

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

NURS 7000. Foundations of Scholarly Writing. Unit: 1

The purpose of this course is to enhance scholarly writing skills. Students develop skills in writing a strong introductory paragraph, organizing a critical review of the literature, and creating a concise conclusion. Bibliographic search methodology and American Psychological Association (APA) editorial format will be reviewed and utilized. Department consent required.

NURS 7005. Health Promotion & Population Health. Units: 3

This course provides a theoretical foundation and framework related to health promotion, population health, health equity and community-based interventions. Analyze data to improve health outcomes, students explore theoretical frameworks for health promotion programs. Evaluate existing evidence-based population health programs to promote health outcomes. Department consent required.

NURS 7010. Human Diversity and Health Equity. Units: 3

This course explores diversity among the individuals, families, and the communities served by the advanced practice registered nurse (APRN). A focus on disparities, determinants of health, vulnerable populations, and culturally congruent care informs nursing practice to improve patient and community outcomes. Students explore healthcare through a lens of diversity, equity, and inclusion. Emphasis on care for vulnerable populations. The APRN's role in health care advocacy within policy will be introduced. Department consent required.

NURS 7015. Biostatistics and Epidemiology. Units: 3

This course examines the principles of statistics to analyze and interpret quantitative data. Students apply statistics to analyze data and used to guide evidenced based interventions that can be used to translate evidence into practice. Epidemiologic models will be assessed to identify factors contributing to health problems and to plan health care delivery programs to address contributing factors. Department consent required.

NURS 7020. Health Policy, Economics, and Fiscally Responsible Care. Units: 3

In this course students examine the policy, economic, and financial principles in the American healthcare system. Students obtain a working understanding of how legislative policies at both the federal and state level impact access to care and healthcare utilization. Involvement in the political process will be promoted. Contemporary issues involving legal, political, and ethical concerns related to health policy will be discussed. The economics of healthcare will be addressed with a focus on value-based care and improved patient outcomes. Students will apply financial management, strategic business planning and financial decision-making in providing care for individuals and populations. Department consent required.

NURS 7025. Introduction to the Advanced Practice Registered Nurse (APRN) Role. Units: 2

Examine the dynamic role of the advanced practice registered nurse (APRN). Analyze common theoretical frameworks and models that support clinical practice and nursing education. Explore education standards that guide nursing curricula; models of best learning practices and the tools used to manage, execute, and evaluate clinical experiences for stakeholders. Explore the necessary skills to advocate individualized learning needs and role model best practices within the clinical environment. Department consent required.

NURS 7030. Introduction to Integrative Health & Self-Care for the Advanced Practice Registered Nurse (APRN). Units: 2

This course utilizes an evidence-based approach to holistic integrative health and well-being to support the APRN and their clinical practice. Students explore healing practices, including both integrative and complementary alternative medicine (CAM). This course covers the theoretical framework, efficacy, safety, appropriate use, and evidence for holistic integrative modalities and CAM supported by the U.S. Department of Health and Human Services, National Institutes of Health, National Center for Complimentary and Integrative Health. Students develop the necessary skills to model and role-model self-care, well-being, and resiliency. Department consent required.

NURS 7035. Leadership Role and Interprofessional Collaboration. Units: 3

This course analyzes leadership theories and organizational models for use in the healthcare setting. Additionally, students are presented with an overview of interprofessional collaboration with an emphasis placed on mediation, negotiation, conflict resolution, collaboration, and consultation. Students explore the principles of shared leadership, team dynamics, and interprofessional practice for holistic patient-centered care. Department consent required.

NURS 7040. Quality Improvement and Evidenced-Based Practice Methods. Units: 3

This course explores the theoretical foundations and application of quality improvement methods, tools and strategies needed to improve organizational effectiveness. There is also a focus on measurement and accountability in health care delivery systems through the examination and analysis of data, structures, processes, and outcomes. Students prepare to lead and practice in organizations that advance high reliability principles, patient safety, inter-professional teamwork, and continuous learning. Students apply evidence-based practice (EBP) methods to identify a problem, plan changes to improve a process or outcome, and develop innovative solutions related to health care delivery. Department consent required.

NURS 7045. Information Systems Technology and Telehealth. Units: 3

This course explores informatics for clinical practice, including nursing practice, public health, and health care. Telehealth will be explored for its potential to increase access to health care in all populations. The benefits and risks of electronic health records and telehealth will be covered including big data applications for population health promotion and privacy concerns. Ethical, regulatory, and legislative aspects will be discussed in relation to interprofessional practice, improved patient-provider communication, and coordinated care delivery. Department consent required.

NURS 7100. Advanced Physiology and Pathophysiology. Units: 3

This course utilizes a systematic approach to human physiology and pathophysiologic changes across the lifespan. Emphasis on clinical application that supports the advanced practice registered nurse (APRN). Students will focus on the interrelationship between physiology and pathophysiology. Students will apply this knowledge to identify levels of normal and identify underlying disease processes as well as prevention strategies. Department consent required.

NURS 7105. Advanced Pharmacotherapeutics 1. Units: 3

This course is designed to meet the California Board of Registered Nursing requirement for nurse practitioners to furnish medications and/or devices commonly used in the diagnosis, prevention, and treatment of health care conditions affecting patients across the life span, pursuant to the Business and Professions Code including utilizing standardized procedures, including controlled substances (Schedule II-V) and risk of addiction associated with their use. Content of focused discussion and testing will include, but not limited to: pharmacokinetics, pharmacodynamics, pharmacotherapeutic management; recognizing and managing side effects; interactions with medications, foods, and dietary supplements; ethical and legal issues related to the furnishing process, including furnishing controlled substance. Emphasis is on achieving optimal drug therapy outcomes as well as preparation for application for a furnishing license. Department consent required.

NURS 7110. Advanced Health Assessment Across the Lifespan. Units: 3

Semester Corequisite: NURS7110L

This course develops the knowledge, skills, and understanding needed to perform a comprehensive health assessment across the lifespan. Emphasis is placed on assessment, analysis and synthesis of all relevant physiological, pathophysiological, psychopathological as well as physical and psychosocial data. The student will incorporate assessments focused on the client's chief complaint in addition to screening for illness and promoting wellness. Evidence-based best practices will be used to analyze assessment findings to create individualized and holistic plans that identify health problems for clients across the lifespan. Student must receive a passing grade in both NURS 7110 and NURS 7110L or will be required to repeat both courses. Department consent required.

NURS 7110L. Advanced Health Assessment Lab. Unit: 1

Semester Corequisite: NURS 7110

This lab portion of Advanced Health Assessment accompanies NURS 7110. Students demonstrate competency in obtaining comprehensive health histories and assessments for clients across the lifespan. Integration of concepts and skills learned in the theory portion of the course are demonstrated in lab/clinical settings for students. Students will successfully demonstrate the ability to perform comprehensive health assessments, counsel clients on health promotion, document appropriately, and identify additional client needs for appropriate health management across the lifespan. Students must receive a passing grade in both NURS 7110 and NURS 7110L or will be required to repeat both courses. Department consent required.

NURS 7120. Advanced Pharmacotherapeutics 2. Units: 3

This course builds upon NURS 7105 (Advanced Pharmacotherapeutics 1) to address pharmacotherapeutic (uses and effects) and pharmacokinetic concepts across broad pharmacologic agent categories. Students will expand knowledge of medication actions, indications of use, interactions, contraindications, therapeutic dosage, route of administration, and adverse effects of the less commonly prescribed medications and in polypharmacologic practice across the lifespan. Content builds the knowledge required to manage comorbidity health conditions, including relevant legal, regulatory, and quality and safety issues necessary for the APRN in prescribing, managing multiple medications, and evaluating drug therapy. This course will include augmented pharmacological therapies utilizing vitamins and herbal supplements. This includes knowledge of actions, indications of use, interactions, contraindications, therapeutic dosage, route of administration, and adverse effects including relevant legal, regulatory, and quality and safety. Department consent required.

NURS 7400. Pediatric Health Management and Pharmacotherapeutics. Units: 3

This primary care course is designed to prepare the Family Nurse Practitioner (FNP) student to apply knowledge of pediatric healthcare maintenance, pathophysiology, pharmacology and symptom assessment to the management of well-child and common acute and chronic pediatric illness. The FNP student develops the skills to appropriately assess clinical presentation and formulate appropriate differential diagnosis, diagnostic approaches, appropriate management and advocacy strategies for the pediatric patient and families. Department consent required.

NURS 7410. Family Health Management Theory 1. Units: 3

Semester Corequisite: NURS 7410L

This course accompanies NURS 7410L Family Health Management 1 Simulation Lab. This family nurse practitioner course scaffolds and threads the information from all previous courses and is the first in a series of three disease management courses that focus on diagnosing and treating illness across populations. Students focus on health promotion and meeting the needs of patients with variations in differentiated and undifferentiated problems. Utilizing competency-based education techniques, students focus on simple acute illnesses for adults. Students analyze data collected to create differential diagnoses, order and evaluate appropriate diagnostic testing, select a diagnosis, and develop management strategies. Students begin to utilize evidence-based practice to develop clinical reasoning in decision-making while developing independent and collaborative health care plans. Students must receive a passing grade in both NURS 7410 and NURS 7410L or will be required to repeat both courses. Department consent required.

NURS 7410L. Family Health Management Simulation Lab 1. Unit: 1

Semester Corequisite: NURS 7140

This course accompanies NURS 7410 Family Health Management 1 Theory. This one-unit course is completed as an in-person on campus workshop to prepare for in person clinical. This simulation course utilizes competency-based learning experiences for family nurse practitioner students to meet the nationally recognized patient care competencies required prior to beginning direct patient care clinical hours. Students must receive a passing grade in both NURS 7410 and NURS 7410L or will be required to repeat both courses. Department consent required.

NURS 7415. Diagnostic and Management Reasoning. Units: 3

This course utilizes a holistic integrative approach to develop clinical reasoning and clinical judgment required to formulate differential diagnoses and an accurate diagnosis to manage acute and chronic conditions in patients across the lifespan. Students gain knowledge of principles used in clinical diagnosis and the development of treatment plans, effective interprofessional collaboration including specialty referrals, and ethical considerations. Department consent required.

NURS 7420. Women's Health and Obstetrics. Units: 2

This course provides content related to the principles of pharmacology, pathophysiology, and cultural considerations for the family nurse practitioner (FNP) student to provide reproductive health promotion and meet healthcare needs of women across the lifespan. This course focuses on women's health care for health promotion, health maintenance, and disease prevention, routine prenatal care in uncomplicated pregnancies (up to 36 weeks gestation), and assessment and management of common health problems in the primary care of women. This course expands upon the content within the family health management courses. Department consent required.

NURS 7430. Family Health Management Theory 2. Units: 3

Semester Corequisite: NURS 7430C, NURS 7430L

This course accompanies NURS 7430C Family Health Management 2 Clinical and NURS 7430L Family Health Management 2 Simulation Lab. This family nurse practitioner course scaffolds and threads the information from all previous courses and is the second in a series of three disease management courses that focus on diagnosing and treating illness across populations. Students focus on assessment and management of common chronic health problems across the lifespan in primary care settings. Students evaluate the evidence for screening, differential diagnosis, and wholistic management of health problems, including pharmacological and non-pharmacological treatment modalities in diverse populations. Technology and information systems are incorporated to improve patient outcomes and access to care. Students must receive a passing grade in each of the following courses: NURS 7430, NURS 7430C, and NURS 7430L. If any grade is below passing, students will be required to repeat all three courses. Department consent required.

NURS 7430C. Family Health Management Clinical 2. Units: 4

Semester Corequisite: NURS7430, NURS7430L

This course accompanies NURS 7430 Family Health Management 2 Theory and NURS 7430L Family Health Management 2 Simulation Lab. This course applies concepts for the family nurse practitioner student to assess, diagnose, and manage care in primary care and community-based settings. Pathophysiological and pharmacological concepts are applied in the clinical decision-making process. Supervised clinical practicum emphasizes using the best evidence to formulate diagnosis and management plan for common chronic illnesses in individuals and families across lifespan with the guidance of preceptors. Students must receive a passing grade in each of the following courses: NURS 7430, NURS 7430C, and NURS 7430L. If any grade is below passing, students will be required to repeat all three courses. Department consent required.

NURS 7430L. Family Health Management Simulation Lab 2. Unit: 1

Semester Corequisite: NURS7430, NURS7430C
This course accompanies NURS 7430 Family Health Management 2 Theory and NURS 7430C Family Health Management 2 Clinical. This one-unit course is completed as an in-person on- campus workshop to develop basic clinical skills for in person clinical practice. This simulation course utilizes competency-based learning experiences for family nurse practitioner students to practice clinical skills that will be utilized in clinical practice. Students must receive a passing grade in each of the following courses: NURS 7430, NURS 7430C, and NURS 7430L. If any grade is below passing, students will be required to repeat all three courses. Department consent required.

NURS 7440. Concepts of Behavioral Health. Units: 2

This primary care course prepares the family nurse practitioner (FNP) student to apply knowledge of common mental health concerns, pathophysiology, pharmacology, screenings, and symptom assessment in the management of mental health concerns across the lifespan. The FNP student develops the skills to appropriately assess, including motivational interviewing, develop a management plan, and to refer to a specialist when appropriate. Department consent required.

NURS 7450. Family Health Management Theory 3. Units: 3

Semester Corequisite: NURS 7450C, NURS 7450L
This course accompanies NURS 7450C Family Health Management 3 Clinical and NURS 7450L Family Health Management 3 Simulation Lab. This family nurse practitioner course scaffolds and threads the information from all previous courses and is the third in a series of three disease management courses that focus on diagnosing and treating illness across populations. Students focus on assessment and management of comorbidities and complex health problems, including the role of genomics and genetics, across the lifespan in primary care settings. Students evaluate the evidence for screening, differential diagnosis, and wholistic management of health problems, including pharmacological and non-pharmacological treatment modalities in diverse populations. Technology and information systems are incorporated to improve patient outcomes and access to care. Students must receive a passing grade in each of the following courses: NURS 7450, NURS 7450C, and NURS 7450L. If any grade is below passing, students will be required to repeat all three courses. Department consent required.

NURS 7450C. Family Health Management Clinical 3. Units: 6

Semester Corequisite: NURS 7450, NURS 7450L
This course accompanies NURS 7450 Family Health Management Theory 3, NURS 7450C Family Health Management 3 Clinical, and NURS 7450L Family Health Management 3 Simulation Lab. Application of family nurse practitioner concepts and skills in assessment, diagnosis, and management in primary care and community based settings. Pathophysiological and pharmacological concepts are applied in the clinical decision-making process. Supervised clinical practice emphasizes using best evidence to formulate diagnosis and management plan for the common and less common comorbidity and chronic illness in individuals and families across lifespan with the guidance of preceptors. Students must receive a passing grade in each of the following courses: NURS 7450, NURS 7450C, and NURS 7450L. If any grade is below passing, students will be required to repeat all three courses. Department consent required.

NURS 7450L. Family Health Management Simulation Lab 3. Unit: 1

Semester Corequisite: NURS 7450, NURS 7450C
This course accompanies NURS 7450 Family Health Management 3 Theory and NURS 7450C Family Health Management 3 Clinical. This one-unit course is completed as an in-person on campus workshop to develop advanced clinical skills for in person clinical practice. This simulation course utilizes competency-based learning experiences for family nurse practitioner students to practice clinical skills that will be utilized in clinical practice. Students must receive a passing grade in each of the following courses: NURS 7450, NURS 7450C, and NURS 7450L. If any grade is below passing, students will be required to repeat all three courses. Department consent required.

NURS 7460. Family Clinical Practicum. Units: 8

This clinical practicum allows family nurse practitioner (FNP) students to incorporate all knowledge gained throughout the program to provide safe and effective patient-centered care using evidenced-based practice and clinical judgement in the primary care setting. Emphasis is placed on advanced competency in the formation and evaluation of comprehensive evidence-based plans of care for simple to complex and multisystem disorders across the lifespan. Extensive clinical experiences prepare the student to assume the advanced practice role and professional responsibilities of the entry level FNP. Department consent required.

NURS 7500. DNP Systems Thinking 1. Unit: 1

This first course in a series of four builds the skillset necessary for the DNP project development, implementation, and evaluation. Students initiate the development of the DNP project proposal by gathering the literature specific to the project's focus, explore the Institute for Healthcare Improvement (IHI) Quality Improvement (QI) Project Charter, learn how to work with stakeholders and develop outcome measures. Students select a theoretical framework to use within the project and develop the QI methods and ethical considerations for the proposed project, including IRB requirements and CITI training. Students work with their DNP Project Committee Chair to develop the project question and project's significance and draft the background section of the DNP project proposal. Department consent is required.

NURS 7510. DNP Systems Thinking 2. Units: 2

This is the second in a series of four DNP Systems Thinking courses. Students work with stakeholders, develop the significance and background, synthesize the relevant literature to support the project focus, apply a theoretical framework to use within the project, and develop the methods and ethical considerations for the proposed project. Students complete the writing of the DNP Project Proposal using SQUIRE Guidelines and APA format and following the associated DNP rubrics. Department consent required.

NURS 7520. DNP Systems Thinking 3. Unit: 1

This is the third in a series of four DNP Systems Thinking courses. In this course students will obtain IRB approval and implement their DNP project. Students learn to analyze and present data collected throughout this semester. Department consent required.

NURS 7530. DNP Systems Thinking 4. Units: 2

This is the fourth in a series of four DNP Systems Thinking courses. In this course students continue implementation of the DNP project, complete data analysis, develop a DNP project poster presentation, and complete writing of the DNP project paper final sections. Department consent required.

NURS 7540. APRN Role Transition to Practice. Units: 2

In this course, Advanced Practice Registered Nurse (APRN) students will prepare a resume or CV, employment interview skills, and negotiate an employment contract. Students explore the process and requirements for licensure and certification as a family nurse practitioner. In addition, students will successfully complete a certification review course. Department consent required.

NURS 7990. DNP Systems Thinking 5. Unit: 1

This course is a follow-up to the DNP Systems Thinking series courses. Students that have not completed the DNP Project may enroll in this course to complete the requirement. Learning outcomes will be determined by the student's DNP Project Committee Chair and DNP Program Director. Department consent required.

Public Administration (PA)

Courses

PA 3050. Organizations in Multicultural and Diverse Societies. Units: 3

Semester Prerequisite: junior standing
Integrative, multicultural exploration of the challenge of ensuring that business and government organizations as they pursue their economic or public policy missions, also promote the societal goals of human dignity, diversity, democracy and inclusion. This course examines the roles and powers of business and government organizations in meeting or failing to meet the rights and needs of citizens of all genders and ethnicities. Satisfies GE D4/UD-4, DI designation.

PA 3070. Public Relations in the Public Sector. Units: 3

Public relations as an inherent aspect of management in the public sector. Problems and techniques of administration of programs to manage and improve public relations. Formerly offered as PA 307.

PA 3150. Society, Business, & Global Governance. Units: 3

Description and analysis of government and society. Addresses business' ethical obligations to society, and government policies affecting business at local, state and national levels. Covers global governance focusing on international trade treaties, trading blocs, and international financial institutions. Satisfies GE D4/UD-4, G designation.

PA 3800. Introduction to Public Administration. Units: 3

An introduction to the foundations of public and nonprofit administration, including organization of public services, roles and relationships of public administrators, accountability and the achievement of public goals. Formerly offered as PA 380.

PA 4620. Managing Human Resources For Public Service Organizations. Units: 3

Semester Prerequisite: PA 3800. Quarter Prerequisite: PA 380 and the upper division writing requirement
An introduction to managing human resources in public service organizations, including technical processes of personnel management and the basics of human relations and supervision. Formerly offered as PA 462.

PA 4630. Budgeting for Public Service Organizations. Units: 3

Semester Prerequisite: PA 3800. Quarter Prerequisite: the upper division writing requirement
Role of the budgetary process in the public service environments. Class includes budgeting, budget formulation and administration. Formerly offered as PA 463.

PA 4700. Public Policy and Administration. Units: 3

Formulation and implementation of public policy with an emphasis on the role of public agencies. Students critically examine the role individuals and organizations play in the policy process and methods of policy implementation.

PA 5010. Ethical Public Service Leadership. Units: 3

Semester Prerequisite: Junior status, or graduate status. Quarter Prerequisite: the upper division writing requirement
A course in ethical public service leadership. Emphasis on the theory and practice of leading public service organizations. Topics include various theories of leadership as well as leader traits, skills, styles, behaviors, development, evaluation, and ethics. Formerly offered as PA 501.

PA 5120. Performance Measurement and Management. Units: 3

Semester Prerequisite: Must have junior or graduate standing
Examines performance management in public agencies. Explains the relationship among key terms and concepts - performance measures, performance indicators and benchmarks. Provides an understanding of the benefits and challenges of implementing an effective performance management system for public and nonprofit organizations to ensure that services are delivered effectively, efficiently and equitably.

PA 5140. Nonprofit Management and Leadership. Units: 3

Semester Prerequisite: Junior status, or graduate status. Quarter Prerequisite: the upper division writing requirement
Introduction to the theory and practice of nonprofit management. Students will identify the unique role of nonprofits as public serving private organizations; understand the nonprofit legal framework; review concepts in nonprofit leadership and governance, including the roles and responsibilities of the board of directors; learn how to strategically manage staff and volunteers; and understand the unique financial management practices of nonprofit organizations. Formerly offered as PA 514.

PA 5150. Nonprofit Staff and Volunteer Management. Units: 3

Nonprofit staff and volunteer management is a comprehensive course that provides students with a solid foundation in managing staff and volunteers within the nonprofit sector. This course blends theoretical concepts with practical applications, enabling students to understand the unique characteristics of the nonprofit sector, develop effective recruitment and talent retention strategies, create engaging and meaningful volunteer experiences, and navigate the legal and ethical complexities specific to nonprofit human resource management.

PA 5170. Nonprofit Fundraising and Grantwriting. Units: 3

Students will learn the practical skills necessary to generate resources for nonprofit organizations. This course will emphasize foundational principles in philanthropy, including: donor prospecting, donor relation management, and the design and production of fundraising campaigns. Students will also learn specific grant writing techniques for various funder types, such as foundations, corporations, and government agencies. A full overview of the grant cycle, which involves locating grant opportunities, developing proposals, and the management of grant reporting will be covered.

PA 5190. Managing Diversity in Organizations. Units: 3

Semester Prerequisite: Junior status, or graduate status
Exploration of the diversity challenges facing organizations as they pursue their missions. Topics include: theories of diversity, its benefits and challenges, legal managerial and ethical obligations. Formerly offered as PA 619.

PA 5200. Sustainability Policy and Management. Units: 3

Semester Prerequisite: Junior status, or graduate status
This course is centered around the sustainable management of natural and built environment systems with an emphasis on California and the Inland Empire Region. This course will review the current state of the environment in CA, including its systemic threats to a sustainable future; and laws, regulations and policy incentives for sustainable development outcomes. Key topics will include water and waste systems; transportation systems management and programmatic innovations; renewable energy systems adaptions; as well as green infrastructure planning and policy.

PA 5210. Community Planning and Management. Units: 3

Semester Prerequisite: Junior status, or graduate status. Quarter Prerequisite: the upper division writing requirement
This course serves as a primer on local government management and community planning with a focus on these issues in California and the Inland Empire Region. Key topics will include the history of urban systems; local and regional governance structures; the fiscal basis for local governments; local government policy; planning laws and regulations; land use management; environmental impact review; transportation and mobility planning; place-making and design; and citizen engagement models.

PA 5280. Intergovernmental Relations and Policy Networks. Units: 3

Semester Prerequisite: Junior status, or graduate status
This course provides students with an understanding of both the process and the philosophy of intergovernmental relations and policy networks in the United States, its foundations, its evolution, and its current status. Relationships among 90,000 independent federal, state and local governments in addition to non-governmental actors. Formerly offered as PA 628.

PA 5570. Public Sector Labor Relations. Units: 3

Semester Prerequisite: Junior status, or graduate status. Quarter Prerequisite: the upper division writing requirement
Analyzes issues created by collective bargaining and unionism in public sectors. Examples: selection of bargaining agents, bargaining scope and obligation, impasse resolution and grievance procedure. Formerly offered as PA 557.

PA 5640. Economic and Community Development. Units: 3

Semester Prerequisite: Junior status, or graduate status. Quarter Prerequisite: the upper division writing requirement
This course is focused on economic and community development policy and practice for local communities, with a special focus on California and the Inland Empire Region. Key topics include theories of economic growth, distribution and community impact; policy and program strategies for regional and local economic development; financing and implementation of economic development programs; policy innovations for equitable growth; and the political economy of the housing market.

PA 5680. Accounting for Government and Not-for-Profit Organizations. Units: 3

Semester Prerequisite: ACCT 2110. Quarter Prerequisite: ACCT 211
Provides students an opportunity to study the specialized the GASB accounting principles applicable to state and local governments. It affords learners an opportunity to acquire proficiency with the FASB financial reporting standards applicable to a variety of tax exempt non-profit organizations encountered in practice with an emphasis on fair value accounting and the basic principles used to record of assets, liabilities, equity, revenues, and expenditures. The course also covers the analysis and interpretation of government financial statements. Previously offered as ACCT 468.

PA 5730. Public Transportation Systems. Units: 3

Semester Prerequisite: Junior status, or graduate status. Quarter Prerequisite: the upper division writing requirement
Transportation systems are the backbone of any community and highly impact the local quality of life, depending on how they function. This course takes a systems approach to transportation planning and policy. Topics include: techniques of analysis of transportation networks and plans; land use and economics; location theories and spatial analysis; and the human element. Formerly offered as PA 573.

PA 5753. Internship in Public Administration. Units: 3

Semester Prerequisite: Consent of PA internship coordinator. Quarter Prerequisite: Consent of PA internship coordinator
Supervised work and study in government or non-profit organizations. May be repeated for credit. A total of six units of Jack H. Brown College of Business and Public Administration PA 5753 or PA 5755 courses may be applied toward graduation. Graded credit/no credit. Formerly offered as PA 575.

PA 5755. Internship. Unit: 1

Semester Prerequisite: Consent of college internship coordinator. Quarter Prerequisite: senior standing preferred; consent of instructor and the departments internship coordinator
Supervised work and study in private or public organizations. May be repeated for credit. A total of six units of Jack H. Brown College of Business and Public Administration 5753 or 5755 courses may be applied toward graduation. Graded credit/no credit.

PA 5900. Special Topics in Public Administration. Units: 3

Semester Prerequisite: Junior status, or graduate status
An intensive study of some phase of public administration to be developed by the instructor. May be repeated for credit as topics change. Formerly offered as PA 590.

PA 5915. Special Topics in Public Administration. Unit: 1

An intensive study of some phase of public administration to be developed by the instructor. May be repeated for credit as topics change.

PA 5951. Independent Study. Unit: 1

Semester Prerequisite: Junior status, or graduate status
Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Course is cross-listed across different departments within the college.

PA 5952. Independent Study. Units: 2

Semester Prerequisite: Junior status, or graduate status
Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Formerly offered as 595B. Course is cross-listed across different departments within the college.

PA 5953. Independent Study. Units: 3

Semester Prerequisite: Junior status, or graduate status
Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Formerly offered as 595D. Course is cross-listed across different departments within the college.

PA 5955. Independent Study. Unit: 1

Semester Prerequisite: Junior status, or graduate status
Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Course is cross-listed across different departments within the college.

PA 6030. Research Methods in Administration. Units: 3

Quarter Prerequisite: ADMN 210 or equivalent introductory statistics class

Introduces the fundamentals of scientific inquiry in administration and provides the theoretical and practical base for a research project, particularly as applicable to public managers. Addresses issues of research design, sampling, data collection and analysis of basic quantitative and qualitative methods, as well as evaluation of research. Formerly offered as PA 603.

PA 6110. Public Administration Theory and Practice. Units: 3

A critical analysis of major theories of public administration and their application, including development of the discipline, evolution of institutional forms, concepts of decision-making, ethics in the public sphere, the politics-administration dichotomy, and the role of public administration in society. The course is constructed on a writing intensive approach with foci on public service values and motivation. Formerly offered as PA 611.

PA 6150. Public and Nonprofit Financial Management. Units: 3

Management of financial resources in public and nonprofit organizations with emphasis on both micro and macro approaches. Topics include evaluation and monitoring of financial conditions and trends, capital financing strategies, debt administration, cash management, retirement systems, and risk management. Formerly offered as PA 615.

PA 6170. Management of Local Economic Development. Units: 3

Theories and strategies of economic development in California and the Nation. Topics include planning, financing and implementation of economic development programs, as well as the social and environmental impacts of alternatives. Formerly offered as PA 617.

PA 6300. Program Evaluation. Units: 3

Semester Prerequisite: PA 6030. Quarter Prerequisite: MATH 305 or ADMN 210
The purpose, methods, and utility of program evaluations in public and nonprofit organizations. Addresses selection of programs for evaluation, research design, and research methodology as well as organizational and personnel challenges associated with the evaluation process. Formerly offered as PA 630.

PA 6500. Government in the Digital Age. Units: 3

Quarter Prerequisite: the upper division writing requirement
Surveys the uses of information technology (IT) in public sector, impact of IT on public organizations, and the functions of IT in a democratic society. Theories and principles of technology design and management of change, electronic delivery of government information and services, and problems of managing IT in government. Formerly offered as PA 650.

PA 6550. Capstone: Strategic Planning for Government and Nonprofit Organizations. Units: 3

Semester Prerequisite: Completion of a minimum of 27 units within the MPA program
Description and analysis of public sector and non-profit strategic planning, including key planning components, the planning process, the organizational environment and leadership. Topics include organizational mission, vision, goal setting, environmental assessment, prioritization, strategy development, implementation and performance measurement. Must be passed with a B or higher grade. Formerly offered as PA 655.

PA 6610. Principles of Public and Nonprofit Procurement. Units: 3

Introduction to theory and practice of public and nonprofit procurement at the local, state and federal levels including best practices, trends, ethics and the legal framework of procurement. Formerly offered as PA 661.

PA 6620. Human Resource Management in the Public Sector. Units: 3

Analysis of the human resource management function as it applies to public sector organizations. Topics include development of modern public service, professionalism and ethics, recruitment, selection, position management, compensation practices, appraisal, and personnel development. Formerly offered as PA 662.

PA 6630. Public Budgeting and Finance. Units: 3

Budgeting and finance theories, and concepts, and principles used in various settings that include federal, state, and local governments and nonprofit organizations Includes economic, management, and political approaches to appropriation and revenue decision-making processes, as well as ethics and major issues in contemporary budgeting. Formerly offered as PA 663.

PA 6640. Management of Public Organizations. Units: 3

Examines public service management, including the role of the public executive, theories of public organizations, human behavior in public organizations, innovation, and professional ethics. Formerly offered as PA 664.

PA 6700. Emergency Management. Units: 3

Covers basic theory and practice in emergency management. Topics include approaches to emergency management, the political and administrative environment, administration of complex systems, behavioral aspects, and establishing and implementing community wide policies. Formerly offered as PA 670.

PA 6720. Administrative Regulation. Units: 3

Semester Prerequisite: PA 6110
Discretionary authority of regulatory agencies, the manner in which power is exercised by such agencies, and the administrative structure of the regulatory process. Topics include Constitutional analysis, legal research, administrative immunity, rulemaking, evidentiary adjudication, due process, transparency, and privacy, as well as judicial and legislative review of administrative action. Formerly offered as PA 672.

PA 6750. Internship. Units: 0

Prerequisites: senior standing preferred; consent of instructor and the departments internship coordinator
Supervised work and study in a public service organization to satisfy Advancement to Candidacy requirement 4 of the MPA program. Graded credit/no credit.

PA 6755. Internship. Unit: 1

Semester Prerequisite: Consent of college internship coordinator. Quarter Prerequisite: senior standing preferred; consent of instructor and the departments internship coordinator
Supervised work and study in private or public organizations. May be repeated for credit. A total of six units of Jack H. Brown College of Business and Public Administration 5753 or 5755 courses may be applied toward graduation. Graded credit/no credit.

PA 6800. Public Policy Analysis. Units: 3

Semester Prerequisite: PA 6110 and PA 6030. Quarter Prerequisite: PA 611, PA 662, and PA 663
Theoretical and practical issues to the development, application, and management of policy issues in public administrative systems. The emphasis is upon the development of critical thinking and evaluative skills for applied decision making in the workplace. Selected contemporary policy challenges and solutions are explored. Formerly offered as PA 680.

PA 6900. Advanced Topics in Public Administration. Units: 3

Intensive study of an advanced topic in public administration. May be repeated for credit as topics change. Formerly offered as PA 690.

PA 6980. MPA Culminating Experience. Units: 0

Semester Prerequisite: Advancement to candidacy, approval of department, completion of required course work in the masters program, and in good academic standing
An assessment students' ability to integrate the knowledge gained in the program through the completion of a project. Students should show critical and independent thinking and demonstrate mastery of the subject matter. A project is a significant undertaking appropriate to a professional field. It is described and summarized in a written abstract that includes the project's significance, objectives, methodology and a conclusion or recommendation. Other end-of-program activities will also guide the course content. Credit/No credit.

PA 6985. Professional Development Seminar. Units: 0

This seminar addresses a variety of topics required for students including professional and career development program, current topics, advising and networking. Students must enroll and receive credit for two semesters during their program.

PA 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PA 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PA 6992. Continuous Enrollment for Graduate Candidacy Standing. Units: 2

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PA 6993. Continuous Enrollment for Graduate Candidacy Standing. Units: 3

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PA 6994. Continuous Enrollment for Graduate Candidacy Standing. Units: 4

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PA 6995. Continuous Enrollment for Graduate Candidacy Standing. Units: 5

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PA 6996. Continuous Enrollment for Graduate Candidacy Standing. Units: 6

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

Philosophy (PHIL)

Courses

PHIL 1001. Moral Choices in Life. Units: 3

Fundamentals of ethical reasoning in the context of a first-year seminar. Introduction to moral theories and methods of moral decision making. Focus on such issues as ethics in the workplace, responsible citizenship, euthanasia, and responsibilities to the homeless, the environment and animals. Formerly offered as PHIL 101.

PHIL 1005. Critical Thinking Through Argument Analysis. Units: 3

Analysis of various kinds of reasoning employed in everyday life and in more specialized contexts to develop each student's skill in understanding and using carefully constructed arguments. Illustrations will include materials drawn from contemporary issues. Satisfies GE A3/1B.

PHIL 1011. Introduction to Philosophy. Units: 3

Prerequisites: Satisfaction of the GE Written Communication requirement

An introduction to philosophical thinking by means of reading, discussing and writing about selected philosophical works. Students are encouraged to develop their own philosophical views in a critical exchange with the views of the philosophers studied. Satisfies GE C2/3B, WI designation.

PHIL 1011H. Honors Introduction to Philosophy. Units: 3

Semester Prerequisite: Admission to the Honors Program; Satisfaction of GE 1A

An introduction to philosophical thinking by means of reading, discussing and writing about selected philosophical works. Students are encouraged to develop their own philosophical views in a critical exchange with the views of the philosophers studied. Satisfies GE C2/3B, WI designation.

PHIL 1012. Introduction to Ethics. Units: 3

An introduction to ethics and moral theory. Philosophical approaches to questions of right and wrong, duty and obligation, good and evil. Deals with both individual morality and social morality. Satisfies GE C2/3B, WI designation, Diversity and Social Justice pathway.

PHIL 1012H. Honors Introduction to Ethics. Units: 3

Semester Prerequisite: Admission to the Honors Program; Satisfaction of GE 1A

An introduction to ethics and moral theory. Philosophical approaches to questions of right and wrong, duty and obligation, good and evil. Deals with both individual morality and social morality. Satisfies GE C2/3B, WI designation, Diversity and Social Justice pathway.

PHIL 1013. Introduction to Philosophy of Religion. Units: 3

Introductory treatment of philosophical issues raised by religion and religious belief; discussion of issues such as relations between faith, belief and knowledge, arguments for the existence of god, the problem of evil, and immortality. Satisfies GE C2/3B, WI designation.

PHIL 1014. Introduction to Asian Philosophy. Units: 3

Introduction to the ways in which human life and reality is viewed from perspectives such as Buddhism, Hinduism, Taoism and Confucianism. Satisfies GE C2/3B, G, WI designations, World Cultures and Diversity pathway.

PHIL 1015. Introduction to Knowledge and Reality. Units: 3

Inquiry into philosophical presuppositions underlying common sense and scientific views of knowledge and reality. Possible topics include: Was the universe created? Is the world as it appears to us? Are humans merely complex machines or do they have souls? How do we know what we know? What are moral values? Satisfies GE C2/3B; WI designation.

PHIL 1015H. Honors Introduction to Knowledge and Reality. Units: 3

Semester Prerequisite: Admission to the Honors Program and satisfaction of GE 1A

Inquiry into philosophical presuppositions underlying common sense and scientific views of knowledge and reality. Possible topics include: Was the universe created? Is the world as it appears to us? Are humans merely complex machines or do they have souls? How do we know what we know? What are moral values? Satisfies GE C2/3B, WI designation.

PHIL 1016. Introduction to Latin American Philosophy. Units: 3

An introduction to Latin American philosophy through an examination of the philosophical traditions of Latin America and the study of Latin American philosophers. Satisfies GE C2/3B, DI, G, WI designations.

PHIL 1017. Introduction to Philosophy of Sex. Units: 3

Introductory treatment of the philosophical questions surrounding sex, including what does and does not count as sex, what consent to sex involves, what is required for sex to be morally permissible, and the moral status of things like sex work, racialized sexual preferences, and polyamory. Satisfies WI designation.

PHIL 2100. Critical Thinking Through Symbolic Logic. Units: 3

Introduction to logic and its application to everyday reasoning. Emphasis on formal methods and modern symbolic logic. Satisfies GE A3/1B.

PHIL 3006. Philosophy in Children's Literature. Units: 3

Semester Prerequisite: Satisfaction of the GE 1A, 1B. Junior or senior standing
Examination of philosophical questions in children's literature. Satisfies GE C4/UD-3, WI designation.

PHIL 3007. Philosophy in Young Adult Literature. Units: 3

Examination of philosophical questions in young adult literature. Satisfies GE C4/UD-3.

PHIL 3008. Philosophy in World Literature. Units: 3

Examination of philosophical questions in world literature. Satisfies GE C4/UD-3.

PHIL 3010. Truth, Lies and Bullshit. Units: 3

Semester Prerequisite: Satisfaction of the GE 1A, 1B. Junior or senior standing
Investigation of the nature of truth, lies and (the related concept) bullshit, with application to contemporary topics. Satisfies GE C4/UD-3, WI designation, and Diversity & Social Justice pathway.

PHIL 3011. Philosophy of Race. Units: 3

Semester Prerequisite: Satisfaction of GE 1A, 1B, and junior or senior standing
Inquiry into the nature of race and racial injustice through contemporary philosophical theories of these topics. Satisfies GE C4/UD-3, DI, WI designations, Diversity and Social Justice pathway.

PHIL 3012. Philosophy of Gender. Units: 3

Study of philosophical theories of gender and critical analysis of gender-related issues. Topics include the sex/gender distinction, analyses of gender and oppression, and the intersection of gender with other social identities like race and sexual orientation. Satisfies GE C4/UD-3, G, WI designations, and Diversity & Social Justice pathway.

PHIL 3013. Human Rights & Global Citizenship. Units: 3

Examination of the tension between respecting cultural traditions and the idea of universal human rights. Satisfies GE C4/UD-3, G, WI designations.

PHIL 3014. Environmental Ethics. Units: 3

Study of moral principles in application to the environment. Topics to be discussed include the value of the natural world, our moral obligations towards non-human life and our environment, and a variety of applied topics (for example, climate change, environmental justice, and technology and the environment). Satisfies GE C4/UD-3, WI designation, and Environmental Sustainability pathway.

PHIL 3015. Roots and Results of Democracy. Units: 3

Semester Prerequisite: Satisfaction of GE 1A, 1B, and junior or senior standing
Philosophical theories and movements leading to and emerging from democratic institutions. Satisfies GE C4/UD-3, WI designation, Big Ideas that Change the World: Exploring Ideas, Innovations, Discoveries pathway.

PHIL 3016. Real Ethics in a Virtual World. Units: 3

Semester Prerequisite: Satisfaction of GE 1A, 1B, and junior or senior standing
Examination of ethical issues arising with development of modern electronic media. Satisfies GE C4/UD-3, WI designation, Digital Life pathway.

PHIL 3017. Scientific Revolutions. Units: 3

Semester Prerequisite: Satisfaction of GE 1A, 1B, and junior or senior standing
Philosophical examination of major scientific revolutions. Satisfies GE C4/UD-3, WI designation, Big Ideas that Change the World: Exploring Ideas, Innovations, Discoveries pathway.

PHIL 3018. Biomedical Ethics. Units: 3

Semester Prerequisite: Satisfaction of GE 1A and junior or senior standing

Examination of ethical issues as they arise in the area of medicine and health care; including such topics as euthanasia, abortion, cloning, allocation of medical resources, genetic engineering, human trials and experimentation, and organ donation. Satisfies GE C4/UD-3, G, WI designations.

PHIL 3019. Happiness. Units: 3

Semester Prerequisite: Satisfaction of GE 1A and junior or senior standing

What is happiness? Should we strive to be happy? Does everyone strive to be happy? What is the relationship between a happy life and a meaningful life? How do we measure and evaluate the happiness and well-being of ourselves and others? In this course, we investigate these questions on the nature of happiness by considering discussions about them from ancient Greek authors to the present. In addition, we aim to connect philosophical discussions of happiness and well-being to recent empirical work. Satisfies GE C4/UD-3, G, WI designations.

PHIL 3020. Philosophy of Hip Hop. Units: 3

Semester Prerequisite: Satisfaction of GE 1A, 1B, and junior or senior standing
Inquiry into the aesthetic, epistemic, moral and political features of hip hop music through contemporary philosophical work from aestheticians, epistemologists, ethicists, political philosophers and philosophers of race. Satisfies GE C4/UD-3, DI, WI designations, and Diversity & Social Justice pathway.

PHIL 3025. Marginalized in America. Units: 3

Semester Prerequisite: Satisfaction of GE 1A, 1B, and junior or senior standing
Philosophical study of oppression and marginalization. Analysis of the variety of ways in which oppression or marginalization impacts the lives and psychologies of marginalized peoples in the United States. Satisfies GE C4/UD-3 DI, WI designations, Diversity and Social Justice pathway.

PHIL 3026. Philosophy of Disability. Units: 3

Semester Prerequisite: Satisfaction of GE 1A, 1B, and junior or senior standing
Study and critical analysis of ability and disability. Topics include social and medical models of disability, perspectives in critical disability studies, and disability as identity. Satisfies GE C4/UD-3, DI, WI designations, Diversity and Social Justice pathway.

PHIL 3027. Science Fiction and Philosophy. Units: 3

Semester Prerequisite: Completion of University Foundations and GE 3A or 3B, or consent of instructor
Do aliens exist? Could we talk to them? Can machines think or have moral standing? Is the universe a simulation? Is there a multiverse? How can "alien" practices around race, sex, gender, families, and politics inform our own? Satisfies GE C4/UD-3, WI designation.

PHIL 3040. Philosophy and Film. Units: 3

Semester Prerequisite: Satisfaction of GE 1A, 1B, and junior or senior standing
Study of philosophical themes as they arise in works of film. Satisfies GE C4/UD-3, WI designation.

PHIL 3100. Predicate Logic. Units: 3

Semester Prerequisite: PHIL 2100 or consent of instructor. Quarter Prerequisite: PHIL 200 or consent of instructor
Introduction to the standard predicate calculus. Some metatheory. This course requires some basic mathematical or logical background. Formerly PHIL 300.

PHIL 3110. Alternative Logics. Units: 3

Semester Prerequisite: PHIL 2100 or consent of instructor. Quarter Prerequisite: PHIL 200 or consent of instructor
Logics alternative to the classical predicate calculus. Topics include logics extending or contrasting with the classical approach. May be repeated for credit two times as topics change for a total of 6 units. Formerly known as PHIL 308.

PHIL 3210. Ancient Philosophy. Units: 3

Semester Prerequisite: Satisfaction of GE 1B and a 3A/3B Philosophy course or consent of instructor
Introduction to the origin of Western philosophy, as represented in the works of the Pre-Socratics, Plato, Aristotle, the Stoics, Epicureans, Skeptics and Mystics. Satisfies WI designation.

PHIL 3225. Medieval Philosophy. Units: 3

Semester Prerequisite: Satisfaction of the GE (A3) Critical Thinking requirement and a GE category C (C2, C3 or C4) Philosophy course, or consent of instructor
A study of philosophical issues from Augustine to Descartes. Satisfies WI designation.

PHIL 3230. Classical Arabic Philosophy. Units: 3

This course offers an introduction to the Arabic philosophical tradition, focusing on the period one might call the "classical" age of Arabic thought from al-Kindi and the transmission of Greek philosophy (9th century) to Averroes (12th century). Topics to be considered include the eternity of the world; the theory of soul and intellect; the relation between philosophy and religion; the attitude taken towards Greek philosophical texts, especially Aristotle, by Muslim philosophers; the problem of divine attributes; the nature of God as a cause; and the problem of free will. Satisfies DI, G, and WI designations.

PHIL 3250. Early Modern Philosophy. Units: 3

Semester Prerequisite: Satisfaction of GE 1B and a 3B Philosophy course

Major philosophical developments in Western philosophy from c 1600 to1800. Figures examined may include: Descartes, Leibniz, Spinoza, Locke, Berkeley, Hume, Kant, Reid, Rousseau, Hobbes, Malebranche, Wollstonecraft, Newton, and Clarke. Satisfies WI designation.

PHIL 3290. Topics in the History of Philosophy. Units: 3

Semester Prerequisite: Satisfaction of GE 1B and a 3A/3B Philosophy course or instructor consent
Study of a specially-selected figure, movement, problem, or theory in the history of philosophy. May be repeated for credit as topics change. Satisfies WI designation.

PHIL 3310. Ethics. Units: 3

Semester Prerequisite: Satisfaction of GE 1B and a 3A/3B Philosophy course or consent of instructor
The nature of the meaningful life and its relation to concepts of right and wrong explored through various moral theories. Satisfies WI designation.

PHIL 3312. Free Will and Moral Responsibility. Units: 3

Semester Prerequisite: Satisfaction of GE 1B and a 3A/3B Philosophy course or consent of instructor
A study of the nature of free will and its relation to moral responsibility and ethical obligation. Satisfies WI designation.

PHIL 3315. Moral Psychology. Units: 3

Semester Prerequisite: Satisfaction of GE 1B and lower division Philosophy course
A survey of major themes central to the philosophical study of moral psychology, including moral motivation, emotions and moral judgment, moral reasoning, and character formation. Satisfies WI designation.

PHIL 3317. Aesthetics: Philosophy of Art and Beauty. Units: 3

'Aesthetics' derives from the Greek word for sensation or perception, 'aisthesis,' and refers to the philosophy of art and artistic experience. In this course, we will analyze and evaluate the main approaches in the philosophy of art: representational theory, formalism, expressionism, contextualism, and postmodern theory. We aim to highlight the rich diversity of art to convey the difficulty of coming up with unified theories, especially in light of the expanding mediascape of digital culture. We also aim to explore the nature of beauty, taste, and the connection between art and morality. Readings will be drawn from classical Greek sources to contemporary works in the philosophy of art. Satisfies WI designation.

PHIL 3320. Latin American Philosophy. Units: 3

Semester Prerequisite: Satisfaction of GE 1B and lower division Philosophy course
Inquiry into Latin American philosophy through exploring current and historical philosophical views from and about Latin America. Satisfies the GE DI, G, WI designations.

PHIL 3330. Social and Political Philosophy. Units: 3

Semester Prerequisite: Satisfaction of GE 1B and a 3A/3B Philosophy course, or consent of instructor
An examination of major perspectives on how societies should be organized. Study of central issues such as legitimacy of government, and rights versus obligations; or of major concepts such as justice, equality, rights, class, patriarchy and power. Satisfies WI designation.

PHIL 3350. Philosophy of Law. Units: 3

Semester Prerequisite: Satisfaction of GE 1B and a 3A/3B Philosophy course, or consent of instructor

A study of philosophical problems raised by the law, such as the obligation to obey the law; concepts of justice; and justifications for legal rights. Satisfies WI designation.

PHIL 3355. Jurisprudence. Units: 3

Semester Prerequisite: Satisfaction of GE 1B and a 3A/3B Philosophy course, or consent of instructor

Addresses the classic question, "What is law?" and considers whether the criteria for identifying valid legal rules in a legal system refer exclusively to their origin or pedigree or whether they must also satisfy valid moral principles. Satisfies WI designation.

PHIL 3390. Topics in Value Theory. Units: 3

Semester Prerequisite: Satisfaction of GE 1B and a GE 3A/3B Philosophy course, or consent of instructor

Consideration of select problems in moral and political theory. May be repeated for credit as topics change. Satisfies WI designation.

PHIL 3410. Philosophy of Religion. Units: 3

Semester Prerequisite: Satisfaction of GE 1B and a 3A/3B Philosophy course, or consent of instructor

Problems arising in contemporary philosophy of religion. These may include those arising from consideration of the nature or existence of God, the rationality of belief in God, the problem of evil, the hiddenness of God, the relation between justified belief and religious experience, and God's relation to the world. Satisfies WI designation.

PHIL 3450. Asian Philosophy. Units: 3

Semester Prerequisite: Satisfaction of GE 1B and a 3A/3B Philosophy course, or consent of instructor

Study of various philosophical issues that arise within non-Western world views such as Buddhism, Hinduism, and Taoism. Satisfies G, WI designations.

PHIL 3510. Theory of Knowledge. Units: 3

Semester Prerequisite: Satisfaction of GE 1B and a 3A/3B Philosophy course, or consent of instructor

Problems concerning acquiring and justifying knowledge, including the roles of sense perception and reason, the distinction between knowledge and belief, the nature of evidence, and the concepts of truth and certainty. Satisfies WI designation.

PHIL 3520. Philosophy of Science. Units: 3

Semester Prerequisite: Satisfaction of GE 1B and a 3A/3B Philosophy course, or consent of instructor

Foundations of science, including the nature of scientific methodology, explanation, concept formation, and the structure of theories, using case studies from the natural sciences and social sciences. Satisfies WI designation.

PHIL 3530. Social Epistemology. Units: 3

Semester Prerequisite: Satisfaction of GE 1B and any lower-division Philosophy course

Inquiry into how knowledge and belief relate to social phenomena such as gender and racial injustice. Satisfies the GE DI, WI designations.

PHIL 3540. Feminist Philosophy. Units: 3

Semester Prerequisite: Satisfaction of the GE (A3) Critical Thinking requirement and a GE category C (C2, C3 or C4) Philosophy course, or consent of instructor

This course addresses feminist philosophy as a distinctive field of philosophy. Students will learn the philosophical concepts and skills needed to understand key feminist theoretical paradigms and arguments. This course will address a variety of topics in feminist philosophy, such as sex and gender; embodiment; oppression and domination; objectification; and more. Satisfies WI and DI designations.

PHIL 3550. Metaphysics. Units: 3

Semester Prerequisite: Satisfaction of GE 1B and a 3A/3B Philosophy course, or consent of instructor

Problems relating to existence. Includes issues such as realism and anti-realism, the nature of modal truth, free-will and determinism, the mind-body problem, and the nature of identity. Satisfies WI designation.

PHIL 3560. Philosophy of Logic and Mathematics. Units: 3

Semester Prerequisite: Satisfaction of GE 1B and a 3A/3B Philosophy course, or consent of instructor

Philosophical issues raised by logic and mathematics, such as the nature of mathematical and logical truth, the nature of logical consequence, the relation between logic, mathematics and the world, and justification of logical and mathematical systems. Satisfies WI designation.

PHIL 3580. Philosophy of Language. Units: 3

Semester Prerequisite: Satisfaction of GE 1B and a 3A/3B Philosophy course, or consent of instructor

Inquiry into the syntactic, semantic and pragmatic dimensions of language, focusing on different theories of these components, and the philosophical implications of these theories. Satisfies WI designation.

PHIL 3590. Topics in Metaphysics and Knowledge. Units: 3

Semester Prerequisite: Satisfaction of GE 1B and a 3A/3B Philosophy course, or consent of instructor

Consideration of select problems in metaphysics, philosophy of language, theory of knowledge and philosophy of science. May be repeated for credit as topics change. Satisfies WI designation.

PHIL 3610. Phenomenology. Units: 3

Semester Prerequisite: Satisfaction of GE 1B and a lower-division Philosophy course

A study of core themes in phenomenology, such as subjectivity, consciousness, embodiment, and lived experience. This course also includes phenomenological analyses of particular kinds of lived experiences (for example, gendered embodiment). Satisfies WI designation.

PHIL 3620. Existentialism. Units: 3

Semester Prerequisite: Satisfaction of GE 1B and a lower-division Philosophy course

Exploration of core existentialist themes of freedom, subjectivity, despair, death, and ethics in the works of 19th and 20th century philosophers and application of these themes to contemporary topics. Satisfies WI designation.

PHIL 3630. Continental Philosophy. Units: 3

Semester Prerequisite: Satisfaction of GE 1B and a lower-division Philosophy course

A survey of intellectual traditions comprising 20th-century Continental philosophy, including post-structuralism, and the works of Heidegger, Merleau-Ponty, Foucault and others, as well as contemporary applications of Continental thought (e.g., in contemporary Black existentialism and feminist theories of embodiment). Satisfies WI designation.

PHIL 3900. Topics in Philosophy. Units: 3

Study of a specially-selected figure, movement, problem, or theory in philosophy. May be repeated for credit as topics change. Satisfies WI designation.

PHIL 4100. Advanced Issues in Logic. Units: 3

Semester Prerequisite: PHIL 3100 or consent of instructor. Quarter Prerequisite: PHIL 300 or consent of instructor

Discussion of issues such as axiomatic logic, proofs of soundness and completeness, the incompleteness of arithmetic and set theory. May be repeated for credit as topics change. Formerly PHIL 400.

PHIL 4200. Advanced Issues in History of Philosophy. Units: 3

Semester Prerequisite: At least two 3000-level philosophy courses. Quarter Prerequisite: at least two 300-level philosophy courses

An intensive study of one or more philosophical figures or topics in the history of philosophy. May be repeated for credit as topics change. Formerly PHIL 410.

PHIL 4300. Advanced Issues in Value Theory. Units: 3

Semester Prerequisite: At least two 3000-level philosophy courses

Intensive study of topics in ethics, social philosophy and/or political philosophy. May be repeated for credit as topics change. Formerly PHIL 460.

PHIL 4500. Advanced Issues in Metaphysics and Knowledge. Units: 3

Semester Prerequisite: At least two 3000-level philosophy courses. Quarter Prerequisite: at least two 300-level philosophy courses

Intensive study of topics in metaphysics, philosophy of language, theory of knowledge and/or philosophy of science. May be repeated for credit as topics change. Formerly PHIL 485.

PHIL 4900. Advanced Topics in Philosophy. Units: 3

Intensive study of a specially selected figure, movement, problem, or theory in philosophy. May be repeated for credit as topics change. Formerly PHIL 490.

PHIL 5751. Internship in Philosophy. Unit: 1

Semester Prerequisite: consent of instructor. Quarter Prerequisite: consent of instructor

Supervised intensive work of an applied nature that requires advanced skills in philosophy. A total of six internship units may be applied toward graduation; a total of three internship units may be applied to the major. Graded credit/no credit. Formerly PHIL 575B.

PHIL 5752. Internship in Philosophy. Units: 2

Semester Prerequisite: consent of instructor. Quarter Prerequisite: consent of instructor

Supervised intensive work of an applied nature that requires advanced skills in philosophy. A total of six internship units may be applied toward graduation; a total of three internship units may be applied to the major. Graded credit/no credit. Formerly PHIL 575C.

PHIL 5753. Internship in Philosophy. Units: 3

Semester Prerequisite: consent of instructor. Quarter Prerequisite: consent of instructor

Supervised intensive work of an applied nature that requires advanced skills in philosophy. A total of six internship units may be applied toward graduation; a total of three internship units may be applied to the major. Graded credit/no credit. Formerly PHIL 575D.

PHIL 5951. Independent Study. Unit: 1

Semester Prerequisite: Consent of instructor. Quarter Prerequisite: Consent of instructor

Intensive study of topics not offered in other existing philosophy courses. No more than six units of independent study can apply towards the philosophy major without departmental approval. Formerly PHIL 595B.

PHIL 5952. Independent Study. Units: 2

Semester Prerequisite: Consent of instructor. Quarter Prerequisite: Consent of instructor

Intensive study of topics not offered in other existing philosophy courses. No more than six units of independent study can apply towards the philosophy major without departmental approval. Formerly PHIL 595C.

PHIL 5953. Independent Study. Units: 3

Semester Prerequisite: Consent of instructor. Quarter Prerequisite: Consent of instructor

Intensive study of topics not offered in other existing philosophy courses. No more than six units of independent study can apply towards the philosophy major without departmental approval. Formerly 595D.

Physics (PHYS)

Courses

PHYS 1000. Physics in the Modern World. Units: 3

Introduction to the physical world, including Newtonian mechanics, electromagnetism, relativity, quantum theory, and nuclear and particle physics. Implications of physics for society. Intended for students with little background in science. Satisfies GE B1/5A.

PHYS 1000L. Physics in the Modern World Lab. Unit: 1

Semester Prerequisite: Completion of GE-B1/5A

Laboratory associated with Physics in the Modern World (PHYS 1000). Satisfies GE B3/5C. Materials fee required.

PHYS 1500. Tools for Physicists. Units: 3

Introduction to tools and techniques necessary to prepare students for the physics curriculum. Topics include problem solving techniques, basic programming, data analysis, and discussions of careers and research in physics. Intended for students majoring in physics. Two hours lecture and three hours lab. Materials fee required.

PHYS 2000. Introduction to Physics I. Units: 4

Semester Prerequisite: MATH 1601 or 2210, with a grade of C or better
First course of a year long sequence surveying the basic concepts of physics, primarily for natural science students. Student majoring in physics, computer science or engineering, or closely related fields should enroll in PHYS 2500. This course will cover the basic principles of mechanics, oscillations, thermodynamics and fluids. Satisfies GE B1/5A.

PHYS 2000L. Introduction to Physics I Lab. Unit: 1

Semester Prerequisite: MATH 1601 or 2210, with a grade of C or better
Semester Corequisite: PHYS 2000
Laboratory associated with Introduction to Physics I (PHYS 2000). Student majoring in physics, computer science or engineering, or closely related fields should enroll in PHYS 2500 and PHYS 2500L. Satisfies GE B3/5C. Materials fee required.

PHYS 2010. Introduction to Physics II. Units: 4

Semester Prerequisite: PHYS 2000. Quarter Prerequisite: PHYS 121
Second course of a year long sequence surveying the basic concepts of physics, primarily for natural science students. Students majoring in physics, computer science or engineering, or closely related fields should instead enroll in PHYS 2510. This course will cover the basic principles of electricity, magnetism, waves, optics, and modern physics. Formerly part of the PHYS 121, 122, and 123 sequence.

PHYS 2010L. Introduction to Physics II Lab. Unit: 1

Semester Prerequisite: PHYS 2000 and 2000L. Prerequisite: PHYS 121
Semester Corequisite: PHYS 2010
Laboratory associated with Introduction to Physics II (PHYS 2010). Students majoring in physics, computer science or engineering, or closely related fields should instead enroll in PHYS 2510 and PHYS 2510L. Formerly part of the PHYS 121, 122, and 123 sequence. Materials fee required.

PHYS 2500. General Physics I. Units: 4

Semester Prerequisite: MATH 2210
Semester Corequisite: MATH 2220
First course of a two-course sequence in introductory calculus-based physics for scientists and engineers. This sequence is intended for students with a strong background in mathematics and the sciences. Topics include mechanics and oscillations. Satisfies GE B1/5A.

PHYS 2500L. General Physics I Lab. Unit: 1

Semester Prerequisite: Math 2210
Semester Corequisite: Math 2220 and PHYS 2500
Laboratory for General Physics I (PHYS 2500). This sequence is intended for students with a strong background in mathematics and the sciences. Satisfies GE B3/5C. Materials fee required.

PHYS 2510. General Physics II. Units: 4

Semester Prerequisite: MATH 2220, PHYS 2500. Quarter Prerequisite: PHYS 221 and MATH 213
Second course of a two-course sequence in introductory calculus-based physics for scientists and engineers. This sequence is intended for students with a strong background in mathematics. Topics include electromagnetism and optics. Formerly part of the PHYS 221, 222, and 223 sequence.

PHYS 2510L. General Physics II Lab. Unit: 1

Semester Prerequisite: MATH 2220, PHYS 2500, PHYS 2500L.
Prerequisite: MATH 213, PHYS 221
Semester Corequisite: PHYS 2510
Laboratory for General Physics II (PHYS 2510). This sequence is intended for students with a strong background in mathematics. Formerly part of the PHYS 221, 222, and 223 sequence. Materials fee required.

PHYS 2512. General Physics - Supplement. Units: 2

Semester Prerequisite: MATH 2220
An additional course for students who transfer in credit for parts of PHYS 2500 and PHYS 2510, the introductory calculus-based physics sequence for scientists and engineers. This sequence is intended for students with a strong background in mathematics. Intended for transfer students only. Department consent required.

PHYS 2600L. Introduction to Electronics. Unit: 1

Semester Prerequisite: PHYS 2510, MATH 2310. Quarter Prerequisite: PHYS 222, MATH 331
Introduces electronics for the sciences and engineering. Focus is on analog electronics, practical circuits, troubleshooting, passive and active circuit elements, signal conditioning, and test and measurement skills. Formerly PHYS 150; students may not earn credit for both courses. Materials fee required.

PHYS 2700. Modern Physics. Units: 3

Semester Prerequisite: MATH 2310, PHYS 1500, PHYS 2510 and PHYS 2510L. Quarter Corequisite: MATH 252. Quarter Prerequisite: PHYS 223, MATH 331
Semester Corequisite: MATH 2320
An introduction to special relativity, wave-particle duality, quantum mechanics, atomic physics, nuclear physics, and elementary particle physics. Formerly PHYS 225; students may not earn credit for both courses.

PHYS 2800. Introduction to Quantum Information Science and Technology. Units: 3

Semester Corequisite: PHYS 2510 & PHYS 2510L
This course introduces the principles and applications of quantum information science and technology (QIST), focusing on how quantum mechanics can be harnessed for sensing, computation, and communication. Students will begin with foundational concepts, including qubits, superposition, entanglement, and quantum parallelism. The course will then explore three major application areas: quantum sensing (e.g. nitrogen-vacancy (NV) diamond centers and atomic systems), quantum computing (including physical hardware platforms, algorithms, and IBM's Qiskit-based simulations), and quantum communication (quantum key distribution, telecom-band fiber network and quantum repeaters). Through lectures, computational labs, and project-led presentations, students will gain a practical understanding of the underlying physics, the state-of-the-art in hardware and software, and the emerging technologies driving the quantum revolution. Prior experience to an introductory level programming language (e.g., Python or similar) is recommended.

PHYS 2951. Special Projects in Physics. Unit: 1

Quarter Prerequisite: consent of instructor
Individual investigation, research, study, or survey of selected problems. May be repeated for credit. Department consent required. Formerly PHYS 295A.

PHYS 2952. Special Projects in Physics. Units: 2

Quarter Prerequisite: consent of instructor
Individual investigation, research, study, or survey of selected problems. May be repeated for credit. Department consent required. Formerly PHYS 295B.

PHYS 2953. Special Projects in Physics. Units: 3

Individual investigation, research, study, or survey of selected problems. May be repeated for credit. Department consent required.

PHYS 3000. Pop Culture Physics. Units: 3

Introduction to the concepts of physics through popular media such as movies, television, books, and video games. Intended for students having little background in science but who wish to understand what is possible in this universe and what is not. Satisfies GE B5/UD-5.

PHYS 3010. The Science of Digital Sound and Music. Units: 3

Semester Prerequisite: Completion of GE 2, 5A and junior or senior standing
This course will use the physics and mathematics of waves and sound in order to understand how digital sound and music can be created, shaped, and used to express creative ideas. Topics will include sound and waves, the study of electronics and programs that can be used to shape and filter waveforms, and how these applications can be used to create different types of sound and music. Satisfies GE B5/UD-5, Digital Life pathway.

PHYS 3050. Physics and Astronomy in the Classroom. Units: 3

Semester Prerequisite: MATH 3012. Quarter Prerequisite: MATH 301C
Semester Corequisite: PHYS 3050L; MATH 3013
Basic concepts of physics and astronomy as related to the elementary and middle school classroom. Topics include mechanics, electricity and magnetism, optics, thermodynamics, and astronomy. Course content and practices are aligned with the Next Generation Science Standards (NGSS) and specially designed for students interested in teaching grades K through 8. Formerly a combination of PHYS 100 and ASTR 311 or part of PHYS 3040; credit may not be earned for this course and both PHYS 100 and ASTR 311 or PHYS 3040.

PHYS 3050L. Physics and Astronomy in the Classroom Laboratory. Unit: 1

Semester Prerequisite: MATH 3012. Quarter Prerequisite: MATH 301C
Semester Corequisite: PHYS 1000 or PHYS 3040
Basic concepts of astronomy and physics as related to the elementary and middle school classroom in a hands-on laboratory environment. Course content and practices are aligned with the Next Generation Science Standards (NGSS) and specially designed for students interested in teaching grades K through 8. Topics will include, but are not limited to, all space science NGSS standards. Materials fee required. Formerly a combination of PHYS 100 and part of ASTR 311; credit may not be earned for this course and both PHYS 100 and ASTR 311.

PHYS 3060. Physics and Astronomy in the Classroom. Units: 2

Basic concepts of physics and astronomy as related to the elementary and middle school classroom taught with in-class activities and experiments. Topics include mechanics, electricity and magnetism, optics, thermodynamics, and astronomy. Course content and practices are aligned with the Next Generation Science Standards (NGSS) and specially designed for students interested in teaching grades K through 8. Formerly a combination of PHYS 100 and ASTR 311 or part of PHYS 3040 or PHYS 3050 and PHYS 3050L; credit may not be earned for this course and both PHYS 100 and ASTR 311 or PHYS 3040 or PHYS 3050.

PHYS 3100. Mathematical Methods of Physics. Units: 4

Semester Prerequisite: MATH 2310, MATH 2320 with a grade of C or better, PHYS 1500, PHYS 2510, Combined 2 GPA in 2000-level PHYS courses. Quarter Prerequisite: Math 331 and Math 252 with a grade of C or better, PHYS 223, Combined 2 GPA in 200-level PHYS courses
Vector calculus, ordinary and partial differential equations, special functions, and integral transform techniques including Fourier and Laplace. Emphasis on techniques applicable to the problems of physics and engineering. Formerly PHYS 373, students may not earn credit for both courses.

PHYS 3200. Classical Mechanics. Units: 4

Semester Prerequisite: PHYS 2510 and 2510L. Quarter Prerequisite: PHYS 223
Semester Corequisite: PHYS 3100
A study of translational and rotational dynamics including Newtonian, Lagrangian, and Hamiltonian formulations in inertial and non-inertial reference frames. Applications include oscillations, central-force motion, and systems of particles. Formerly PHYS 306; students may not earn credit for both courses.

PHYS 3300. Computational Physics. Units: 3

Semester Prerequisite: PHYS 2510, PHYS 2510L. Prerequisite: PHYS 223
Semester Corequisite: PHYS 3100
Numerical methods in Python. Topics include numerical integration, applications of computational techniques to differential equations, modeling, Monte Carlo techniques, and non-linear systems. Materials fee required. Formerly a topic under PHYS 485; students may not earn credit for both courses. One hour lecture and six hours laboratory.

PHYS 3400. Electricity & Magnetism. Units: 3

Semester Prerequisite: PHYS 2700 and PHYS 3100 with a grade of C- or better in each course. Quarter Prerequisite: PHYS 225 and 373 with a grade of C- or better in each course
Semester Corequisite: PHYS 2700
A study of classical electromagnetic fields and applications of Maxwell's equations. Topics include electrostatics, magnetostatics, and electrodynamics. Formerly PHYS 313, students may not earn credit for both courses.

PHYS 3500. Statistical and Thermal Physics. Units: 4

Semester Prerequisite: PHYS 2700 and PHYS 3100 with grades of C- or better in each course. Quarter Prerequisite: PHYS 225 and PHYS 373 with a grade of C- or better in each course

Basics of equilibrium thermodynamics and statistical mechanics. Topics include entropy and temperature, partition functions and free energies, classical and quantum statistical ensembles, phase transitions, and selected applications. Formerly PHYS 324, students may not earn credit for both courses.

PHYS 3600. Data Acquisition and Control. Units: 2

Semester Prerequisite: PHYS 2600L, PHYS 3100, PHYS 3300. Quarter Prerequisite: CSE 201, PHYS 150, PHYS 222, and PHYS 373

An introduction to computer-based data acquisition, control, and analysis. Topics include instrument control, graphical programming, algorithm development, feedback control algorithms, and computer-based data analysis. One hour lecture and three hours laboratory. Materials fee required. Formerly PHYS 350; students may not earn credit for both courses.

PHYS 3800. Intermediate Physics Laboratory. Units: 2

Semester Prerequisite: PHYS 3300, PHYS 2700, PHYS 2600L. Prerequisite: CSE 201, PHYS 225, PHYS 150

Semester Corequisite: PHYS 2700, PHYS 2600L

Seminal experiments in physics. Topics include modern scientific instrumentation, probability and statistics, and data and error analysis techniques. Development of written and oral communication skills. One hour lecture and three hours laboratory. Materials fee required.

PHYS 4400. Electricity & Magnetism II. Units: 3

Semester Prerequisite: PHYS 3400 with grade of C- or better. Quarter Prerequisite: PHYS 313 with grade of C- or better

A continuing study of classical electromagnetic fields and applications of Maxwell's equations. Topics may include electrodynamics in media, gauge invariance, electromagnetic waves, radiation, and special relativity. Formerly PHYS 314; students may not earn credit for both courses.

PHYS 4600. Electronics. Units: 3

Semester Prerequisite: PHYS 3600. Quarter Prerequisite: PHYS 350 and PHYS 373

Electronics for science and engineering. Topics may include modular circuit design, linear systems theory, electronic design software, high frequency techniques, communication theory, and control theory. Two hours lecture and three hours laboratory. Materials fee required. Formerly PHYS 352; students may not earn credit for both courses.

PHYS 4700. Quantum Mechanics. Units: 4

Semester Prerequisite: PHYS 2700, PHYS 3100, PHYS 3200, and PHYS 3400 with grades of C- or better in each course. Quarter Prerequisite: MATH 331, PHYS 225, PHYS 373, PHYS 313, and PHYS 306 with a grade of C- or better in each course

Quantum mechanics presented in the Dirac formalism. Topics include spin and orbital angular momentum, two-level systems, time evolution, the harmonic oscillator, and the hydrogen atom. Formerly PHYS 421, students may not earn credit for both courses.

PHYS 4800. Senior Thesis. Units: 2

Semester Prerequisite: PHYS 3200, PHYS 3400, and PHYS 3800

Culminating laboratory experience in physics includes working in groups to select, design, perform, and analyze an experiment. Presentations throughout the course using multiple methods of written and oral communication. One hour lecture and three hours laboratory. Satisfies WI designation.

PHYS 4851. Special Topics in Physics. Unit: 1

A lecture course on a specialized topic in physics. May be repeated for credit as topics change. Department consent required. Formerly PHYS 485A.

PHYS 4851L. Special Topics in Physics Laboratory. Unit: 1

A laboratory course to coincide with a special topics lecture course. May be repeated for credit as topics change. Department consent required. Materials fee required.

PHYS 4852. Special Topics in Physics. Units: 2

A lecture course on a specialized topic in physics. May be repeated for credit as topics change. Department consent required. Formerly PHYS 485B.

PHYS 4852L. Special Topics in Physics Laboratory. Units: 2

A laboratory course to coincide with a special topics lecture course. May be repeated for credit as topics change. Department consent required. Materials fee required.

PHYS 4853. Special Topics in Physics. Units: 3

A lecture course on a specialized topic in physics. May be repeated for credit as topics change. Department consent required. Formerly PHYS 485C.

PHYS 5100. Mathematical Methods of Physics II. Units: 3

Semester Prerequisite: PHYS 3100. Quarter Prerequisite: PHYS 373

Topics may include functions of a complex variable, tensor analysis, Hilbert spaces, Bayesian statistics, and group theory. Emphasis on techniques applicable to the problems of physics and engineering. Formerly PHYS 473. Students may not earn credit for both courses.

PHYS 5400. Applied Optics. Units: 3

Semester Prerequisite: PHYS 2700 and PHYS 3100

This course introduces students to the modern applications of optics, photonics, and quantum technologies. Students begin with classical optics, including ray tracing, Gaussian beams, and Fourier optics, and progress to advanced applications in laser spectroscopy, photoluminescence, Raman spectroscopy, and fiber optics. The course then transitions into quantum optics, coherence, photon statistics, and applications in quantum communication, computation, and sensing. Quantum optical effects will be explored through integrated computational activities.

PHYS 5500. Solid State Physics. Units: 3

Semester Prerequisite: Required: PHYS 2700 and PHYS 3100 or consent of instructor; Recommended: PHYS 3500 and PHYS 4700
An introduction to solid state physics, including structural, electrical, and thermal properties. Topics may include crystal structure, bonding, phonons, electronic states, band structure, and nanomaterials. Formerly PHYS 450. Students may not earn credit for both courses.

PHYS 5700. Quantum Mechanics II. Units: 3

Semester Prerequisite: PHYS 4700 with a grade of C or better. Quarter Prerequisite: PHYS 421 with a grade of C or better
Continued study of the principles of quantum mechanics introduced in PHYS 4700. Topics may include perturbation theory, density functional theory, exchange interactions, scattering, and path integrals. Formerly PHYS 422, students may not earn credit for both courses.

PHYS 5751. Internship. Unit: 1

Supervised work and study in private or public setting. May be repeated for credit. Department consent required. Graded credit/no credit. Only 3 units of PHYS 5751-5753 may be counted towards the Physics degree. Formerly PHYS 585D.

PHYS 5752. Internship. Units: 2

Supervised work and study in private or public setting. May be repeated for credit. Department consent required. Graded credit/no credit. Only 3 units of PHYS 5751-5753 may be counted towards the Physics degree. Formerly PHYS 585B.

PHYS 5753. Internship. Units: 3

Supervised work and study in private or public setting. May be repeated for credit. Department consent required. Graded credit/no credit. Only 3 units of PHYS 5751-5753 may be counted towards the Physics degree. Formerly PHYS 585C.

PHYS 5851. Special Topics in Physics. Unit: 1

A lecture course on a specialized topic in physics. May be repeated for credit as topics change. Department consent required.

PHYS 5851L. Special Topics in Physics Laboratory. Unit: 1

A laboratory course to coincide with a special topics lecture course. May be repeated for credit as topics change. Department consent required. Materials fee required.

PHYS 5852. Special Topics in Physics. Units: 2

A lecture course on a specialized topic in physics. May be repeated for credit as topics change. Department consent required.

PHYS 5852L. Special Topics in Physics Laboratory. Units: 2

A laboratory course to coincide with a special topics lecture course. May be repeated for credit as topics change. Department consent required. Materials fee required.

PHYS 5853. Special Topics in Physics. Units: 3

A lecture course on a specialized topic in physics. May be repeated for credit as topics change. Department consent required.

PHYS 5951. Independent Study. Unit: 1

Investigations conducted under the direction of a faculty member. PHYS 5951-5953 may be repeated for credit up to a total of 6 units. Department consent required. Only 3 units of PHYS 5951-5953 may be counted towards the Physics degree. Formerly PHYS 595A.

PHYS 5952. Independent Study. Units: 2

Investigations conducted under the direction of a faculty member. PHYS 5951-5953 may be repeated for credit up to a total of 6 units. Department consent required. Only 3 units of PHYS 5951-5953 may be counted towards the Physics degree. Formerly PHYS 595B.

PHYS 5953. Independent Study. Units: 3

Investigations conducted under the direction of a faculty member. PHYS 5951-5953 may be repeated for credit up to a total of 6 units. Department consent required. Only 3 units of PHYS 5951-5953 may be counted towards the Physics degree. Formerly PHYS 595C.

Portuguese (PORT)

Courses

PORT 1111. Language Study I: Portuguese. Units: 3

Introduction to a language not offered as a major or minor. Fundamentals of pronunciation, structure and culture designed to develop the ability to use and understand the language. Formerly FLAN 101D. Materials fee required.

PORT 1112. Language Study II: Portuguese. Units: 3

Semester Prerequisite: PORT 1111 (formerly FLAN 101D) or 2 years high school language study, placement exam, equivalent college-level course or consent of department
Intermediate study in a language not offered as a major or minor. Emphasis on oral and written competency at the intermediate level in a cultural context. May be repeated for credit as topics change. Satisfies GE C2/3B, DI, G designations. Materials fee required.

Political Science (PSCI)

Courses

PSCI 1000. Introduction to Politics. Units: 3

Introduction to political science as a discipline, including its principal subfields. Survey of perennial questions of political life, including freedom and justice, war and peace, and the rule of law. Satisfies GE D3/4.

PSCI 2030. Government of the United States. Units: 3

Political structure and processes of the American governmental system. This course meets the state code requirements in U.S. Constitution and state and local government. Satisfies GE D1/4.

PSCI 2030H. Government of the United States--Honors. Units: 3

Quarter Prerequisite: admission to University Honors Program
Examination of the political structure and processes of the American governmental system, including study of primary documents. This course meets the state code requirements in U.S. Constitution and state and local government. Satisfies GE D1/4.

PSCI 2040. International Relations. Units: 3
A survey of major regions and ideologies of the world, and of the basic concepts of foreign and security policies, international political economy, international law, and international organizations. Formerly offered as PSCI 204.

PSCI 3000. Western Political Systems. Units: 3
Comparative examination of domestic and foreign politics of Western countries, with an emphasis on European states. Formerly offered as PSCI 300.

PSCI 3010. African Politics. Units: 3
Comparative examination of domestic and foreign politics of African governments. Formerly offered as PSCI 301.

PSCI 3040. East European Political Systems. Units: 3
Comparative examination of the domestic and foreign policies of East European states. Formerly offered as PSCI 304.

PSCI 3050. East Asian Politics. Units: 3
Comparative examination of domestic and foreign politics of East Asian governments. Formerly offered as PSCI 305.

PSCI 3060. Latin American Politics. Units: 3
Comparative examination of domestic politics and foreign policies of Latin American governments. Formerly offered as PSCI 306.

PSCI 3080. Government and Politics of the Middle East. Units: 3
Governmental and political structures of representative states in the Middle East, including Turkey, Israel, and the Arab States. Formerly offered as PSCI 308.

PSCI 3100. Classical Political Thought. Units: 3
Classical political thought through a consideration of representative political thinkers such as Plato, Aristotle, Thucydides, Cicero, Lucretius. Formerly offered as PSCI 310.

PSCI 3110. Foundations of Modern Political Thought. Units: 3
Major political ideas of the early modern period ranging from Machiavelli through Hobbes, Locke, Rousseau and Burke. Formerly offered as PSCI 311.

PSCI 3130. Modern Political Thought. Units: 3
Major political ideas of the nineteenth century. Formerly offered as PSCI 313.

PSCI 3140. American Political Thought. Units: 3
American political ideas from the colonial period to the present. This course meets the state code requirement in U.S. history. Formerly offered as PSCI 314.

PSCI 3150. Post Modern Political Thought. Units: 3
Major political ideas of the twentieth century. Formerly offered as PSCI 315.

PSCI 3200. The Legislative Process. Units: 3
Law-making processes in the United States and/or other selected political systems. Formerly offered as PSCI 320.

PSCI 3250. American Foreign Policy. Units: 3
Political analysis of American foreign policy with emphasis on foreign policy making in the nuclear age. Formerly offered as PSCI 325.

PSCI 3260. Political Parties and Interest Groups. Units: 3
Organization, objectives and activities of political parties and political interest groups and their functions in modern political systems. Formerly offered as PSCI 326.

PSCI 3280. Judicial Process. Units: 3
Process of judicial decision-making with emphasis on factors influencing that process and concepts of judicial roles. Formerly offered as PSCI 328.

PSCI 3300. State and Local Politics. Units: 3
Comparison of state and local political systems within the American Federal System. This course meets the state code requirement in state and local government. Formerly PSCI 330.

PSCI 3400. Sex and Politics. Units: 3
Emphasis will be on sex roles in traditional and modern political systems, sex stereotypes in politics; effects of changing technology on conventional male and female roles; dynamics of change affecting the woman's place in the political world. Formerly offered as PSCI 340.

PSCI 3520. Ethnic Politics. Units: 3
Ethnic groups in the American political system. Formerly offered as PSCI 352A.

PSCI 3521. African American Politics. Units: 3
African-Americans in the U.S. political system. Formerly offered as PSCI 352B.

PSCI 3522. Latino Politics. Units: 3
Latinos in the American political system. Formerly offered as PSCI 352C.

PSCI 3523. Asian American Politics. Units: 3
Asian-Americans in the American political system. Formerly offered as PSCI 352D.

PSCI 3524. Native American Politics. Units: 3
Native Americans in the U.S. political system. Formerly offered as PSCI 352E.

PSCI 3600. International Law. Units: 3
Historical basis and present trends in the development of international law. Formerly offered as PSCI 500 and PSCI 5000.

PSCI 3800. Introduction to Public Administration. Units: 3
An introduction to the purposes, methods and characteristics of public management, including organization of public services, roles and relationships of public administrators, accountability and the achievement of public goals. Formerly offered as PSCI 380 and PA 380.

PSCI 4000. International Politics. Units: 3
Selected theories and evolving patterns of international politics as developed within the nation-state system. Formerly offered as PSCI 400.

PSCI 4100. American Constitutional Law. Units: 3

Principles of the American Constitution as announced by the Supreme Court in selected cases. Judicial review, separation of powers, presidential power, federalism and commerce are included. This course meets the state code requirement in the U.S. Constitution. Formerly offered as PSCI 410.

PSCI 4110. The Bill of Rights. Units: 3

Limitation on federal and state power arising out of the provisions of the first eight and the 14th Amendments to the Constitution. Modern developments are stressed. This course meets the state code requirement in the U.S. Constitution. Formerly offered as PSCI 411.

PSCI 4120. Civil Rights. Units: 3

Jurisprudence of the 13th, 14th and 15th Amendments as articulated by the U.S. Supreme Court. Formerly offered as PSCI 412.

PSCI 4310. The American Presidency. Units: 3

Office and institution of the presidency of the United States. Formerly offered as PSCI 431.

PSCI 4400. Public Opinion. Units: 3

Exploration of causes of political opinions and their role in political participation and government. Includes interpretation of public opinion polls.

PSCI 4500. Law and Social Policy. Units: 3

Examination of major areas of U.S. social policy and how they have been shaped by theory, legislation, and litigation. Includes historical roots of legal entitlements.

PSCI 4550. Politics, Economics and Law. Units: 3

Effects of politics and laws on economic activity over time. Includes globalization and international trade law.

PSCI 4600. Politics, Law and Bureaucracy. Units: 3

Introduction to the regulatory process and the laws and court decisions governing the administration of legislation by federal executive branch agencies.

PSCI 4840. National Security Policy. Units: 3

Introduction to concepts and principles of national security policy through an examination of topics in international relations, foreign policy, arms control, strategic thought and alliance strategy. Formerly offered as PSCI 484.

PSCI 5100. International Organization. Units: 3

History, structure and dynamics of the United Nations and other multi-national organizations. Formerly offered as PSCI 510.

PSCI 5200. War and Politics. Units: 3

The study of the origins and political consequences of war. Formerly offered as PSCI 520.

PSCI 5250. Constitutional Interpretation. Units: 3

Examination of theories and approaches to constitutional interpretation. Formerly offered as PSCI 525.

PSCI 5280. Formulation of Public Policy. Units: 3

Approaches to public policy analysis, emphasizing interaction between substance and process in policy development. Formerly offered as PSCI 528.

PSCI 5300. Studies in Political Theory. Units: 3

Concentrated study of one political theorist or one subject in political theory. May be repeated for credit as topics change. Formerly offered as PSCI 530.

PSCI 5350. Seminar in Constitutional Law. Units: 3

Intensive study in one or more aspects of constitutional law. May be repeated as topics change. Formerly offered as PSCI 535.

PSCI 5400. Seminar in Comparative Politics. Units: 3

Theories, methods, and paradigms of comparative politics. May be repeated as topics change. Formerly offered as PSCI 540.

PSCI 5500. Intelligence, Law and Security. Units: 3

Analysis of the history, institutions and laws pertaining to intelligence agencies and national security practices.

PSCI 5751. Internship in Political Science. Unit: 1

Quarter Prerequisite: Consent of instructor and department
Supervised work and study in public and private organizations. Requires weekly meetings of at least one hour. May be repeated for six times for six units. A total of six units in PSCI 5751, PSCI 5752, and PSCI 5753 may be applied toward graduation. Graded credit/no credit.

PSCI 5752. Internship in Political Science. Units: 2

Quarter Prerequisite: consent of instructor and department
Supervised work and study in public and private organizations. Requires weekly meetings of at least two hours. May be taken three times for six units.. A total of six units in PSCI 5751, PSCI 5752, and PSCI 5753 may be applied toward graduation. Department consent required. Graded credit/no credit. Formerly offered as PSCI 575C.

PSCI 5753. Internship in Political Science. Units: 3

Quarter Prerequisite: Consent of instructor and department
Supervised work and study in public and private organizations. Requires weekly meetings of at least three hours. May be taken twice for six units. A total of six units in PSCI 5751, PSCI 5752, and PSCI 5753 may be applied toward graduation. Graded credit/no credit.

PSCI 5900. Seminar in International Relations. Units: 3

Intensive study of some phase of foreign policy-making or international relations to be developed by instructor with class. May be repeated for credit as topics change. Formerly offered as PSCI 590.

PSCI 5920. Seminar in Government. Units: 3

An intensive study of some phase of government to be developed by instructor with class. May be repeated for credit as topics change. Formerly offered as PSCI 592.

PSCI 5951. Independent Study. Unit: 1

Quarter Prerequisite: A minimum overall grade point average of 3
Special topics involving library and/or field research. May be taken six times for six units. A total of six units in PSCI 5951, PSCI 5952, and PSCI 5953 may be applied toward graduation. Consent of instructor and departmental approval of a written proposal for a project submitted by the first week of the semester in which the course is to be taken. Formerly PSCI 595B.

PSCI 5952. Independent Study. Units: 2

Quarter Prerequisite: a minimum overall grade point average of 3
Special topics involving library and/or field research. Requires weekly meetings of at least two hours. May be taken three times for six units. A total of six units in PSCI 5951, PSCI 5952, and PSCI 5953 may be applied toward graduation. Consent of instructor and departmental approval of a written proposal for a project submitted by the first week of the semester in which the course is to be taken.

PSCI 5953. Independent Study. Units: 3

Quarter Prerequisite: A minimum overall grade point average of 3
Special topics involving library and/or field research. Requires weekly meetings of at least three hours. May be taken two times for six units. A total of six units in PSCI 5951, PSCI 5952, and PSCI 5953 may be applied toward graduation. Consent of instructor and departmental approval of a written proposal for a project submitted by the first week of the semester in which the course is to be taken.

PSCI 5970. Senior Honors Thesis. Units: 3

In-depth research culminating in a written thesis. Written proposals may be submitted by seniors with a 3.5 grade point average in all political science courses. Enrollment is limited to those students whose proposals are approved by a faculty member with consent of the chair. Requires weekly meetings of at least three hours. May be taken two times for six units. Formerly offered as PSCI 595D.

PSCI 6000. Theory and History of Strategy. Units: 3

Seminar on strategy and conflict throughout history with emphasis on contemporary concerns in a nuclear-armed world. Formerly offered as PSCI 600.

PSCI 6010. Strategic Systems and Strategic Thought. Units: 3

Evolution of strategic thought, policy, doctrine and force structure relative to national security objectives. Formerly offered as PSCI 601.

PSCI 6020. International Security. Units: 3

Seminar on international security and the theories that inform our analysis of contemporary national and international security problems. Formerly offered as PSCI 602.

PSCI 6030. Cyber Security and Cyber Warfare. Units: 3

Examination of cyberspace as a domain of war and conflict used by state and non-state actors. Formerly offered as PSCI 603.

PSCI 6040. Seminar in International Law. Units: 3

Survey of the literature and a study of the Law of the Sea, Aerospace Law, and International Regulation of the Use of Force. Formerly offered as PSCI 604.

PSCI 6050. Topics in Strategy:. Units: 3

Intensive study of a specific phase or area of defense strategy developed by the instructor. May be taken two times for six units, as topics change. Formerly offered as PSCI 605.

PSCI 6060. Analysis of International Terrorism. Units: 3

Seminar on patterns of international terrorism and the analysis of terrorist groups. Formerly offered as PSCI 606.

PSCI 6090. International Relations Theory. Units: 3

An examination of the theoretical literature on international relations, including issues of war and peace, foreign relations, and international security. Formerly offered as PSCI 609.

PSCI 6100. Proseminar in Political Science. Units: 2

Quarter Prerequisite: consent of instructor
Survey of the concepts and ideas that political scientists study, how they approach the study of political phenomena, and what methods they employ in their analysis. Formerly known as PSCI 610.

PSCI 6110. Regional Security of Eurasia. Units: 3

Strategic factors in Russia and other post-Soviet states, with emphasis on the relations between the military and society. Formerly offered as PSCI 611.

PSCI 6120. African Security. Units: 3

Examination of security and defense issues of Africa. Formerly offered as PSCI 612.

PSCI 6130. Middle East Security. Units: 3

Middle East security, including its political, military, ideological, and economic components. Formerly offered as PSCI 613.

PSCI 6140. Regional Security of East Asia. Units: 3

Strategic factors in East Asia, with emphasis on the relationships between politics and military factors. Formerly offered as PSCI 614.

PSCI 6200. Understanding Intelligence Failure. Units: 3

Examination of surprise attacks and the problem of intelligence failure. Formerly offered as PSCI 620.

PSCI 6210. Intelligence Assessments and Estimates. Units: 3

Seminar on strategic and tactical intelligence assessment and estimates. Formerly offered as PSCI 621.

PSCI 6220. Arms Control. Units: 3

The background, history, development, and theory of arms control. Formerly offered as PSCI 622.

PSCI 6240. Politics of National Security. Units: 3

Examination of the influence of American political institutions and processes on U.S. national security strategy. Formerly offered as PSCI 624.

PSCI 6250. American Foreign Policy. Units: 3

Seminar on contemporary American foreign policy. Formerly offered as PSCI 625.

PSCI 6973. Thesis. Units: 3

Quarter Prerequisite: completion of coursework and consent of thesis committee

Supervised research. Formerly offered as PSCI 699.

PSCI 6980. Comprehensive Examination. Units: 0

Quarter Prerequisite: advancement to candidacy, approval of department, completion of course work in the masters program and in good academic standing

An assessment of the student's ability to integrate knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. Graded Credit/No Credit. Department consent required. Formerly known as PSCI 999.

PSCI 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PSCI 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PSCI 6992. Continuous Enrollment for Graduate Candidacy Standing. Units: 2

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PSCI 6993. Continuous Enrollment for Graduate Candidacy Standing. Units: 3

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PSCI 6994. Continuous Enrollment for Graduate Candidacy Standing. Units: 4

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PSCI 6995. Continuous Enrollment for Graduate Candidacy Standing. Units: 5

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PSCI 6996. Continuous Enrollment for Graduate Candidacy Standing. Units: 6

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

Psychology (PSYC)

Courses

PSYC 1100. Introduction to Psychology. Units: 3

A survey of the field of modern psychology. Topics include the neurological bases of behavior and mental experience; learning and memory; sensation and perception; consciousness and higher-order thinking (problem-solving, reasoning, decision-making); the emotions and motivation; social aspects of behavior; human development, and psychological disorders and treatments. Satisfies GE D3/4.

PSYC 1101. Psychology as a Major. Units: 2

Semester Prerequisite: PSYC 1100. Quarter Prerequisite: PSYC 100

An introduction to the psychology major at CSUSB including different areas of specialization and professional activities of psychologists. This is an online course. Graded credit/no credit. Formerly offered as PSYC 101.

PSYC 1105. Critical Thinking in Everyday Life. Units: 3

Development of basic skills in critical thinking including identifying and understanding common fallacies, recognizing techniques of persuasion and propaganda, problem solving strategies, decision-making, and applying skills of critical thinking to the complex issues of everyday life. Satisfies GE A3/1B.

PSYC 1115. Personal Adjustment and Growth. Units: 3

Application of psychological principles to predictable challenges and problems over the life span. Explores opportunities for adjustment and growth in a variety of circumstances, such as family and college life. May not be counted toward fulfillment of requirements in the psychology major. Formerly offered as PSYC 115.

PSYC 1120. Career Development. Unit: 1

Examination of theories of career development and exploration of career aspirations and goals, including self assessments. Formerly offered as PSYC 120.

PSYC 2201. Developmental Psychology. Units: 3

Semester Prerequisite: PSYC 1100. Quarter Prerequisite: PSYC 100

Introduction to the psychological development of the person from the prenatal period through old age. Formerly offered as PSYC 201.

PSYC 2210. Psychological Statistics. Units: 4

Semester Prerequisite: GE B4 Math/Quantitative Reasoning and PSYC 1100

Introduction to statistical reasoning and application of basic statistical procedures in psychology. Includes both descriptive and inferential statistics with emphasis on parametric techniques. Three hours lecture and two hours of laboratory. Materials fee required. Formerly offered as PSYC 210.

PSYC 2211. Introduction to Psychological Research. Units: 3

Semester Prerequisite: PSYC 1100

Introduction to the science of psychology and its research methods. Topics include the philosophy of science, scientific thinking and reasoning, correlation vs. causation, threats to validity, formulating testable research questions and hypotheses, basic concepts of research design, and research ethics.

PSYC 2220. Brain and Behavior. Units: 3

Semester Prerequisite: PSYC 1100

Introduction to brain science, including nervous system structure, function, and interaction with other biological systems. Examination of the complex relations among biology, cognition, and behavior.

PSYC 3300. Positive Psychology. Units: 3

Exploration of theories and empirical research related to positive psychology. Topics include values, human strengths, health, positive thinking, happiness, gratitude, and close relationships. Formerly offered as PSYC 300. Semester Prerequisite: PSYC 1100.

PSYC 3301. Psychology of Human Sexuality. Units: 3

Theory and empirical findings from the areas of clinical, developmental, evolutionary, physiological, and social psychology as they apply to human sexual psychology and behavior. Formerly offered as PSYC 301. Semester Prerequisite: PSYC 1100.

PSYC 3303. Parenting and Family Relations. Units: 3

Semester Prerequisite: PSYC 2201 or PSYC/CD 2240. Quarter Prerequisite: PSYC 201 or HD 240

Effects of parenting and intra-family relations on child and life-span psychological development. Formerly offered as PSYC 303.

PSYC 3305. Language Development. Units: 3

Semester Prerequisite: PSYC 2201 or PSYC/CD 2240. Quarter Prerequisite: PSYC 201 or PSYC/HD 240

An introduction to theory and research on the psychological study of language and language development. Topics include speech perception, phonology, morphology, semantics, syntax, and pragmatics. Formerly offered as PSYC 305.

PSYC 3311. Research Methods in Psychology. Units: 4

Semester Prerequisite: Must have completed PSYC 2210 and PSYC 2211, each with a grade of C or better. Restricted to Psychology and Child Development majors, or consent of department. Quarter Prerequisite: PSYC 100 and 210; restricted to psychology majors, human development majors, or consent of department

Design and execution of psychological research. Three hours lecture and three hours laboratory. Materials fee required. Formerly offered as PSYC 311.

PSYC 3318. Health Psychology. Units: 3

Semester Prerequisite: PSYC 1100. Quarter Prerequisite: PSYC 100

Examination of psychological aspects of health related behaviors with emphasis on the effects of interpersonal and social psychological factors on physical health and effective medical care. Formerly offered as PSYC 318.

PSYC 3325. Development of Intimate Relationships. Units: 3

Exploration of intimate relationship formation, maintenance, and termination with emphasis on theory and empirical research. Topics include attraction, communication, love, sex, power, and conflict. Formerly offered as HD 550. Semester Prerequisite: PSYC 1100.

PSYC 3326. Developmental Psychobiology. Units: 3

Psychobiological bases of human behavioral development throughout childhood. Formerly offered as PSYC/HD 324 and PSYC 3324.

PSYC 3329. Psychology of Adulthood and Aging. Units: 3

Semester Prerequisite: PSYC 1100 and PSYC 2201, or consent of instructor

An examination of physical, social, cognitive, and personality development from young adulthood through death. Special attention is given to theory, research, and applications in the area of gerontology. Formerly known as PSYC 329.

PSYC 3331. Psychology of Women and Gender. Units: 3

Semester Prerequisite: PSYC 1100. Quarter Prerequisite: PSYC 100

A critical study of psychological theory and data on the cultural and societal factors that influence the development of gender identity and expression, and the ways in which these social constructions shape many aspects of women's (and people of all genders') psychological and social experience. Satisfies the Diversity and Social Justice GE Pathway. Formerly offered as PSYC 331.

PSYC 3333. Drugs and Behavior. Units: 3

Semester Prerequisite: PSYC 1100 or consent of instructor. Quarter Prerequisite: PSYC 100 or consent of instructor

Analysis of drugs from psychological, behavioral and physiological viewpoints. Topics include drug classification, altered states of consciousness, addiction, chemical nature and treatment of mental illness. Formerly offered as PSYC 333.

PSYC 3334. Addiction and Recovery. Units: 3

Semester Prerequisite: PSYC 1100 or consent of instructor. Quarter Prerequisite: PSYC 100 or consent of instructor

Research and theories related to the psychological, behavioral and physiological basis of addiction and recovery. A variety of common addictive disorders will be considered including eating, smoking, gambling, work, sex and drugs. Formerly offered as PSYC 334.

PSYC 3339. Methods in Human Neuroscience. Units: 3

Semester Prerequisite: PSYC 1100 or consent of instructor. Quarter Prerequisite: PSYC 100 or consent of instructor

An examination of the human neuroscience literature with emphasis on research findings. Clinical applications and theory related to the analysis of the relationships among bodily processes, psychological states, and behavior. Formerly offered as PSYC 339.

PSYC 3340. Stereotyping, Prejudice and Discrimination. Units: 3

Semester Prerequisite: PSYC 1100. Quarter Prerequisite: PSYC 100 or consent of instructor

Psychological underpinnings of stereotyping, prejudice, and discrimination are examined. Topics include implicit and explicit attitudes, stereotyping & stereotype threat, prejudice formation & change, discrimination, and health disparities. Satisfies the Diversity and Social Justice GE Pathway. Formerly offered as PSYC 340.

PSYC 3341. Women and Violence. Units: 3

Semester Prerequisite: PSYC 1100 or consent of instructor. Quarter Prerequisite: PSYC 100 or consent of instructor

Issues of women and violence, combining empirical and theoretical work with community training in agencies dealing with violence against women; includes service learning. Two hours lecture and 40 hours of volunteer training. Formerly offered as PSYC 341.

PSYC 3342. Sports Psychology. Units: 3

Overview of psychological principles and theories related to human behavior and performance in sport and physical activity. Topics include motivation, social interaction, performance enhancement, coaching and leadership, mindfulness, and issues related to health and well-being.

PSYC 3345. Cross-Cultural Psychology. Units: 3

Semester Prerequisite: PSYC 1100
Cross-cultural psychology focusing on cultural variability in basic psychological processes, their application, and the cultural limits of traditional psychological theories. Formerly known as PSYC 345.

PSYC 3349. Gay and Lesbian Issues: Psychological Perspectives. Units: 3

Semester Prerequisite: PSYC 1100
Examines theories and research concerning sexual minority individuals. Topics covered include identity formation, disclosure, stigmatization, health disparities, group identification, and inter-group interaction. Satisfies the Diversity and Social Justice GE Pathway. Formerly offered as PSYC 349.

PSYC 3351. Behavior Modification: Principles and Applications. Units: 3

Semester Prerequisite: PSYC 1100 or consent of instructor. Quarter Prerequisite: PSYC 100 or consent of instructor
Analysis of the theory, empirical evidence, and the implementation of behavior modification techniques in applied settings. Formerly offered as PSYC 351.

PSYC 3354. Organizational Psychology. Units: 3

Theories and practices of modern organizational psychology. Includes the topics of work motivation, job satisfaction, leadership, work groups, and organizational development and communication. Formerly offered as PSYC 302 and cross-listed with MGMT 302.

PSYC 3355. Industrial Psychology. Units: 3

Semester Prerequisite: PSYC 1100, PSYC 1101, PSYC 2210, and PSYC 2211 each with a grade of C or better; restricted to psychology majors, or consent of department. Quarter Prerequisite: PSYC 100 or consent of instructor
Models and practices of modern industrial and personnel psychology. Includes recruitment, selection, placement, training, job analysis, evaluation and occupational stress. Formerly offered as PSYC 355.

PSYC 3357. History and Systems of Psychology. Units: 3

Semester Prerequisite: PSYC 1100, PSYC 1101, PSYC 2210, PSYC 2220, and PSYC 2211 each with a grade of C or better; restricted to psychology majors, or consent of department. Quarter Prerequisite: PSYC 100
A historical framework for integrating basic orientations in contemporary psychology, including the development of the major schools of thought in psychology. Formerly offered as PSYC 357.

PSYC 3358. Cognitive Development. Units: 3

Semester Prerequisite: PSYC 2201 or PSYC/CD 2240. Quarter Prerequisite: PSYC 100 and PSYC 201
Survey of the major theories, issues and research in the development of perceptual and cognitive capacities from childhood through adulthood. Formerly offered as PSYC 358.

PSYC 3359. Evolutionary Psychology. Units: 3

Semester Prerequisite: PSYC 1100, PSYC 1101, PSYC 2210, PSYC 2220, and PSYC 2211 each with a grade of C or better; restricted to psychology majors or consent of department. Quarter Prerequisite: PSYC 100
Theories and empirical research related to evolutionary psychology. Topics include natural selection, sexual selection, inclusive fitness theory, misconceptions about evolution, mating, status, cooperation, aggression, kin relationships, and sexual conflict. Formerly offered as PSYC 359.

PSYC 3360. Cognitive Psychology. Units: 3

Semester Prerequisite: PSYC 1100, PSYC 1101, PSYC 2210, PSYC 2220, and PSYC 2211 each with a grade of C or better; restricted to psychology majors or consent of department. Quarter Prerequisite: PSYC 100
Research and theories concerning human information processing; topics include sensory processes, attention, memory, language and other higher mental processes. Formerly offered as PSYC 360.

PSYC 3361. Intelligence and Creativity. Units: 3

Semester Prerequisite: PSYC 1100
Introduction to intelligence and creativity with an emphasis on theories, measurement and current debates, including among others, the Bell Curve, the link between creativity and mental illness, and role of IQ tests and creativity in school and work assessment. Formerly offered as PSYC 361.

PSYC 3362. Learning and Motivation. Units: 3

Semester Prerequisite: PSYC 1100, PSYC 1101, PSYC 2210, PSYC 2220, and PSYC 2211 each with a grade of C or better; restricted to psychology majors or consent of department. Quarter Prerequisite: PSYC 100
Survey of research and major theories in animal and human learning and motivation. Applications of learning and motivational principles. Formerly offered as PSYC 362.

PSYC 3363. Biological Psychology. Units: 3

Semester Prerequisite: PSYC 1100, PSYC 1101, PSYC 2210, PSYC 2220, and PSYC 2211 each with a grade of C or better; restricted to psychology majors or consent of department. Quarter Prerequisite: PSYC 100
Overview of the biological basis of behavior with emphasis on the relationship between brain function and thought, emotion, perception, language, learning, memory, and motivation. Formerly offered as PSYC 363.

PSYC 3364. Perception. Units: 3

Semester Prerequisite: PSYC 1100, PSYC 1101, PSYC 2210, PSYC 2220, and PSYC 2211 each with a grade of C or better; restricted to psychology majors or consent of department. Quarter Prerequisite: PSYC 100 or consent of instructor
Selected topics in the field of sensory and perceptual processes. Includes review of contemporary theories and research. Class demonstrations and mini-projects. Formerly offered as PSYC 364.

PSYC 3365. Cognitive Neuroscience. Units: 3

Semester Prerequisite: PSYC 1100, PSYC 1101, PSYC 2210, PSYC 2220, and PSYC 2211 or consent of department. Quarter Prerequisite: PSYC 100, PSYC 101, PSYC 210, or consent of department
Examination of the neural foundations of human mental functioning, including perception, attention, memory, language, thinking, and consciousness. Special emphasis on human neuroimaging as well as behavioral and cognitive impairments from brain injury. Formerly offered as PSYC 365.

PSYC 3367. Neuropsychiatric Disorders. Units: 3

Semester Prerequisite: PSYC 1100 and PSYC 2220 or consent from instructor. Quarter Prerequisite: PSYC 100 or consent of instructor
An examination of brain systems involved in psychiatric syndromes and neurological disorders, including Parkinson's disease, Alzheimer's disease, schizophrenia, depression, and bipolar disorders. Provides a basic understanding of brain dysfunctions that contribute to these disorders and rationales for pharmacological treatments. Formerly offered as PSYC 367.

PSYC 3368. U-RISE Seminar I. Units: 2

Semester Prerequisite: Admissions to the URISE program and consent of instructor
A selected examination of original research articles in behavioral and biomedical sciences. Students will learn to critically read, critique, and present published scientific findings. Offered as NSCI 3368, PSYC 3368, and SSCI 3368 (students may receive credit for only one of these courses). Enrollment is limited to students whose formal application to the Undergraduate Research Training Initiative for Student Enhancement (U-RISE) program is approved. Formerly offered as NSCI 368, PSYC 369, SSCI 368.

PSYC 3369. Research Ethics and Reproducibility in Science. Units: 3

This course covers Research Ethics (also known as Responsible Conduct of Research) and will cover use of humans and animals as research subjects, intellectual property, authorship, and research misconduct. The course also covers the importance of rigor and reproducibility in designing and performing scientific research. Consent required.

PSYC 3370. Topics in Psychology. Units: 2

Semester Prerequisite: PSYC 1100
Selected psychology topics with specific focus within relatively narrow content areas. May be repeated for credit as topics change. Formerly known as PSYC 370.

PSYC 3372. Psychology of Death and Dying. Units: 3

Semester Prerequisite: Semester Prerequisite: PSYC 2201 or equivalent Quarter Prerequisite: PSYC 2201 or equivalent
A review of current theory and research on the psychology of grief, death and dying. Formerly offered as PSYC 372.

PSYC 3375. Seminar in Psychology. Units: 3

Quarter Prerequisite: PSYC 100
Selected topics which encompass areas of current theoretical and/or research interest in psychology. May be repeated for credit as topics change. Formerly offered as PSYC 375.

PSYC 3377. Tests and Measurements. Units: 3

Semester Prerequisite: PSYC 1100, PSYC 1101, PSYC 2210, PSYC 2220, and PSYC 2211 each with a grade of C or better; restricted to psychology majors or consent of department. Quarter Prerequisite: PSYC 100 and PSYC 210
Principles of testing and measurement of psychological constructs including coverage of widely used professionally constructed tests, and the approaches to construct, validate, and interpret tests and their data. Formerly offered as PSYC 377.

PSYC 3381. Forensic Psychology. Units: 3

Semester Prerequisite: PSYC 1100
Major issues relevant to the field of forensic psychology. Current research and theory in psychology applicable to the understanding and practice of forensic science in areas including law enforcement, criminal justice, and human services, such as child and adult protective services. Formerly known as PYSC 381.

PSYC 3382. Social Psychology. Units: 3

Semester Prerequisite: PSYC 1100. Quarter Prerequisite: PSYC 100
An introduction to major theories, issues and psychological research in Social Psychology. Topics covered include Social Cognition, Attraction, Prejudice & Stigma, Aggression, the Self, and Group Processes. Formerly offered as PSYC 382.

PSYC 3384. Social and Emotional Development. Units: 3

Semester Prerequisite: PSYC 2201 OR CD 2240
Social and emotional development from childhood through adolescence and early adulthood. Formerly offered as PSYC 384.

PSYC 3385. Personality Psychology. Units: 3

Semester Prerequisite: PSYC 1100. Quarter Prerequisite: PSYC 100 or consent of instructor
Examines theories of personality and current topics in personality research. Examines cognitive, biological and social/cultural influences on personality. Formerly offered as PSYC 385.

PSYC 3386. Introduction to Psychotherapy. Units: 3

Semester Prerequisite: PSYC 1100, PSYC 1101, PSYC 2210, PSYC 2220, and PSYC 2211 each with a grade of C or better; restricted to psychology majors or consent of department. Quarter Prerequisite: PSYC 100
Introduction to psychotherapy theories and research. Formerly offered as PSYC 386.

PSYC 3387. Community Psychology. Units: 3

Semester Prerequisite: PSYC 1100. Quarter Prerequisite: PSYC 100
Comprehensive study of the discipline of community psychology which emphasizes the importance of community diversity, contextual factors, comprehensive change strategies, active collaboration and community resources in relation to individual and community mental health needs. Formerly offered as PSYC 387.

PSYC 3390. Abnormal Psychology. Units: 3

Semester Prerequisite: PSYC 1100. Quarter Prerequisite: PSYC 100 or consent of instructor
An introduction to psychopathology, emphasizing the diagnostic criteria, etiology, and treatment of psychological disorders. Formerly offered as PSYC 390.

PSYC 3391. Psychopathology of Childhood. Units: 3

Semester Prerequisite: PSYC 1100 and either PSYC 2201 or PSYC/CD 2240. Quarter Prerequisite: PSYC 100 and PSYC 201
Psychological, developmental and behavior disorders of childhood with special emphasis on diagnosis, etiology, and clinical treatment. Formerly offered as PSYC 391.

PSYC 3395. Psychology of Consciousness. Units: 3

Quarter Prerequisite: PSYC 100
Human consciousness from the perspectives of the philosophical, experimental psychological, and neuroscience literatures. Includes survey of research and theory on topics such as waking consciousness, dreams, meditation and altered states of consciousness. Formerly offered as PSYC 395.

PSYC 4410. Advanced Psychological Statistics. Units: 4

Semester Prerequisite: Prerequisites: PSYC 2210 or consent of instructor. Quarter Prerequisite: ADMN 210 or PSYC 210 or consent of instructor
Coverage of advanced statistical reasoning and application of statistical procedures in psychology. Includes both parametric and nonparametric techniques with an introduction to multivariate statistics. Statistical computer packages will be introduced. Three hours lecture and two hours laboratory. Formerly offered as PSYC 410. Materials fee required.

PSYC 4421. Advanced Seminar in Psychology: Developmental. Units: 3

Semester Prerequisite: PSYC 2201 and PSYC 3311, or consent of instructor
A review of selected research areas in the fields of child and life-span developmental psychology. Students will develop an advanced project. Satisfies WI designation.

PSYC 4422. Advanced Seminar in Psychology: Clinical. Units: 3

Semester Prerequisite: PSYC 3311, and PSYC 3386 or PSYC 3390
Contemporary topics in clinical psychology, such as integrative treatment approaches, outcome research, psychopathology, adaptation and coping, health promotion, cultural factors in diagnosis and treatment, and common factors in effective treatment such as the working alliance and other relationship factors. Students will develop an advanced project. Satisfies WI designation.

PSYC 4423. Advanced Seminar in Psychology: Biological. Units: 3

Semester Prerequisite: PSYC 3311 and PSYC 3363, or consent of instructor
A review of the literature regarding the neural and endocrine processes underlying brain function and behavior. Students will develop an advanced project. Satisfies WI designation.

PSYC 4424. Advanced Seminar in Psychology: Social. Units: 3

Semester Prerequisite: PSYC 3311 and PSYC 3382
A review of theories and empirical results of experimental social psychology in selected areas such as group dynamics, social perception, communication and attitudes. Students will develop an advanced project. Satisfies WI designation.

PSYC 4425. Advanced Seminar in Psychology: Personality. Units: 3

Semester Prerequisite: PSYC 3311 and PSYC 3385
A review of contemporary personality theories and the relationship of personality to behavior. Students will develop an advanced project. Satisfies WI designation.

PSYC 4426. Advanced Seminar in Psychology: Learning and Motivation. Units: 3

Semester Prerequisite: PSYC 3311 and PSYC 3362
A review of selected theories and research in areas of learning and motivation. Students will develop an advanced project. Satisfies WI designation.

PSYC 4427. Advanced Seminar in Psychology: Cognition and Perception. Units: 3

Semester Prerequisite: PSYC 3311 and either PSYC 3360 or PSYC 3364
A review of human information processing, memory, thinking and perceptual processes. Students will develop an advanced project. Satisfies WI designation.

PSYC 4428. Advanced Seminar in Psychology: Industrial and Organizational. Units: 3

Semester Prerequisite: PSYC 3311, PSYC 3377, and one of the following: PSYC 3354 or PSYC 3355
A review of industrial/organizational psychology, in selected areas such as work motivation, leadership, work groups, occupational stress, performance evaluation, training techniques, and selection approaches. Students will develop an advanced project. Satisfies WI designation.

PSYC 4431. Experimental Psychology: Developmental. Units: 4

Semester Prerequisite: PSYC 2201 and PSYC 3311
Selected research areas in the fields of child and life-span developmental psychology. Includes review of current literature and experimental techniques in developmental research. Three hours lecture and three hours laboratory. Materials fee required. Satisfies WI designation.

PSYC 4432. Experimental Psychology: Clinical. Units: 4

Semester Prerequisite: PSYC 3311, and PSYC 3386 or PSYC 3390
Empirical studies in clinical psychology. Study options include experimental psychopathology, adaptation and coping, health promotion, anxiety/stress, mood/emotion and cultural factors in diagnosis and treatment. Three hours lecture and three hours laboratory. Materials fee required. Satisfies WI designation.

PSYC 4433. Experimental Psychology: Biological. Units: 4

Semester Prerequisite: PSYC 3311 and PSYC 3363, or consent of instructor
Introduction to the neural processes underlying brain function and behavior. Particular emphasis will be placed on neuroanatomy and the actions of drugs on brain and behavior. Students will receive practical training in advanced neuroscience techniques. Three hours lecture and three hours laboratory. Materials fee required. Satisfies WI designation.

PSYC 4434. Experimental Psychology: Social. Units: 4

Semester Prerequisite: PSYC 3311 and PSYC 3382
Methods, theories and empirical results of experimental social psychology in selected areas such as group dynamics, social perception, communication and attitudes. Lecture and laboratory. Materials fee required. Satisfies WI designation.

PSYC 4435. Experimental Psychology: Personality. Units: 4

Semester Prerequisite: PSYC 3311, PSYC 3377, and PSYC 3385
Empirical study of personality theories and the relationship of personality to behavior. Three hours lecture and three hours laboratory. Materials fee required. Satisfies WI designation.

PSYC 4436. Experimental Psychology: Learning and Motivation. Units: 4

Semester Prerequisite: PSYC 3311 and PSYC 3362
Selected theories and research in areas of learning and motivation. Includes literature review and experimental analysis. Lecture and laboratory. Three hours lecture and three hours lab. Materials fee required. Satisfies WI designation.

PSYC 4437. Experimental Psychology: Cognition and Perception. Units: 4

Semester Prerequisite: PSYC 3311 and either PSYC 3360 or PSYC 3364
Empirical study of human information processing, memory, thought and perceptual processes. Three hours lecture and three hours laboratory. Materials fee required. Satisfies WI designation.

PSYC 4438. Experimental Psychology: Industrial and Organizational. Units: 4

Semester Prerequisite: PSYC 3311 and PSYC 3377, and either PSYC 3354 or PSYC 3355
Methods and empirical study of industrial-organizational psychology, in selected areas such as work motivation, leadership, work groups, occupational stress, performance evaluation, training techniques, and selection approaches. Three hours lecture and three hours laboratory. Materials fee required. Satisfies WI designation.

PSYC 4442. Behavioral Neuroscience. Units: 3

Semester Prerequisite: PSYC 3324 or PSYC 3363
Intensive review of the neural mechanisms underlying behavior. Considerable emphasis is placed on sensory, motor, and homeostatic functioning. Higher-order functioning, including learning and memory, will also be covered. Formerly known as PSYC 442.

PSYC 4468. U-RISE Seminar II. Units: 2

Semester Prerequisite: NSCI 3368, PSYC 3368, or SSCI 3368. Quarter Prerequisite: NSCI 368, PSYC 368 or SSCI 368
A selected examination of original research articles in behavioral and biomedical sciences focuses on improving scientific writing skills, shaping long-term research projects, and developing research funding proposals. Offered as PSYC 4468, NSCI 4468, and SSCI 4468 (students may receive credit for only one of these courses). Enrollment is limited to students whose formal application to the Undergraduate Research Training Initiative for Student Enhancement (U-RISE) program is approved. Formerly known as NSCI 468, PSCI 468, SSCI 468.

PSYC 5530. Instructional Assistant Practicum. Units: 3

Quarter Prerequisite: For undergraduates, Psychology major status and consent of the department; for graduate students, classified standing in the Psychology MA or MS programs
Training in a variety of skills necessary to serve as an Instructional Student Assistant (ISA) supporting a college-level instructor in the use of high impact practices. Required for students applying to be an ISA for the Psychology Department BA, MS, or MA degree programs. Formerly offered as PSYC 530.

PSYC 5538. Introduction to Psychopharmacology. Units: 3

Semester Prerequisite: For undergraduates, PSYC/HD 3324, PSYC 3333 or PSYC 3363, or consent of instructor, For graduate students, classified standing in the MA Psychological Science Program or consent of instructor. Quarter Prerequisite: HD 324, PSYC 324, 333 or 363, or consent of instructor
Examination of the basic pharmacological principles of psychoactive drugs. Particular emphasis is placed on neuronal functioning, mechanisms of drug action, and behavioral outcomes. Formerly offered as PSYC 538.

PSYC 5539. Current Methods in Neuroscience. Units: 3

Semester Prerequisite: For undergraduates, PSYC 3311, PSYC 3363, PSYC 4442, or consent of instructor, For graduate students, classified standing in the Psychological Sciences MA Program or consent of instructor
Introduction to experimental methods used in behavioral neuroscience research. Includes relevant experimental designs and surgical, histological, imaging and behavioral techniques.

PSYC 5562. Neural Mechanisms of Learning and Memory. Units: 3

Neural mechanisms responsible for learning and memory formation, including the neurological bases of encoding, consolidation and retrieval of memories.

PSYC 5567. Neural Substrates of Psychiatric Disorders. Units: 3

Semester Prerequisite: For undergraduates, PSYC 3311, PSYC 3363, PSYC 3367, or consent of instructor, For graduate students, classified standing in the Psychological Sciences MA Program or instructor permission
Neural anatomical and physiological alterations associated with the clinical diagnoses of several psychiatric disorders including schizophrenia, major depression, obsessive-compulsive disorder, substance abuse, and Alzheimer disorder. Consideration of how these neuropsychiatric disorders originate and develop. Therapeutic interventions will be discussed in depth.

PSYC 5575. Internship. Units: 3

Semester Prerequisite: Consent of Instructor and Department
Supervised work and study in private and public organizations. Arrangements for the internship must be made during the semester preceding the semester in which the student plans on enrolling in this course (see Department Website). Graded credit/no credit. May be repeated two times for six units. Only three units may be applied to upper-division credit. Formerly known as PSYC 575/5755, CD 5755, HD 575.

PSYC 5581. Current Professional Issues in Industrial-Organizational Psychology. Unit: 1

Semester Prerequisite: Upper-division or graduate standing and consent of department. Quarter Prerequisite: upper-division or graduate standing and consent of department

Overview and critical appraisal of the current professional issues facing I-O psychologists. Topics include the roles that I-O psychologists play in support of organizations and their members, the status of the profession, and future opportunities. Formerly known as PSYC 581A.

PSYC 5582. Diversity, Work, and Family. Units: 3

Semester Prerequisite: PSYC 3354 and PSYC 3355 or graduate standing and consent of department

Prerequisites: upper-division or graduate standing and consent of department

Theory, empirical research, and applications of diversity and inclusion in organizations and the impact of organizational policies on family life. Topics will include discrimination in the workplace, individual, group, and organizational barriers to advancement, diversity management, and the work-family interface.

PSYC 5583. Occupational Health Psychology. Units: 3

Semester Prerequisite: PSYC 3354 and PSYC 3355 or graduate standing and consent of department

Prerequisites: upper-division or graduate standing and consent of department

Theory and research of the workplace issues and structures that impact the physical and mental well-being of workers. Topics will include work-related stressors, workplace safety, and interventions.

PSYC 5584. Work Across the Lifespan. Units: 3

Semester Prerequisite: PSYC 3354 and PSYC 3355 or graduate standing or consent of department

Theory and research on work across the lifespan, including mid and late career issues, bridge employment, and retirement during the adult years. Formerly offered as PSYC 5540.

PSYC 5596. Practicum in Psychology: Peer Advising. Units: 2

Quarter Prerequisite: consent of instructor and department

Training and practice in the basic knowledge, skills, and abilities involved in academic peer advising. One-hour seminar, two hours practicum. A total of six units may be applied toward graduation, of which a maximum of three units can be an upper-division elective in the psychology major. Graded credit/no credit. An application must be submitted during the semester prior to the semester student plans to enroll. May be taken three times for six units. Formerly known as PSYC 596.

PSYC 5597. Honors Seminar. Units: 3

Students develop an independent research project under the direction of a faculty mentor. Students meet as a class with the Program Director to discuss their projects and professional development topics including research ethics, oral and written presentation of their thesis projects, graduate school applications, and career directions. Enrollment is limited to students whose formal application for departmental honors is approved. Formerly known as CD 5597, HD 597, PSYC 597.

PSYC 5598. Honors Project. Units: 3

Semester Prerequisite: PSYC/CD 5597 and consent of department. Quarter Prerequisite: CD/PSYC 597 and consent of department

Students complete an independent research project under the direction of a faculty mentor. Enrollment is limited to students whose formal application for departmental honors is approved. May not be used to satisfy the requirements of the psychology major.

PSYC 5951. Independent Study. Unit: 1

Semester Prerequisite: A minimum grade point average of 3. Quarter Prerequisite: A minimum overall grade point average of 3

Special topics involving literature and/or experimental effort. A total of six units of PSYC 595X may be applied toward graduation, of which a maximum of three units can be applied toward the upper-division requirements in the psychology major. Requires consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the semester in which the course is to be taken.

PSYC 5952. Independent Study. Units: 2

Semester Prerequisite: A minimum overall grade point average of 3. Quarter Prerequisite: A minimum overall grade point average of 3

Special topics involving literature and/or experimental effort. A total of six units of PSYC 595X may be applied toward graduation, of which a maximum of three units can be applied toward the upper-division requirements in the psychology major. Requires consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the semester in which the course is to be taken. Formerly offered as PSYC 595B.

PSYC 5953. Independent Study. Units: 3

Semester Prerequisite: A minimum overall grade point average of 3. Quarter Prerequisite: A minimum overall grade point average of 3

Special topics involving literature and/or experimental effort. A total of six units of PSYC 595X may be applied toward graduation, of which a maximum of three units can be applied toward the upper-division requirements in the psychology major. Requires consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the semester in which the course is to be taken. Formerly offered as PSYC 595D.

PSYC 6001. Proseminar in Psychological Science I. Units: 2

Research seminar for first-year graduate students. Provides exposure to faculty research while providing peer and instructional support for students attempting to develop their own research projects. First-year graduate standing in Psychological Science MA degree program or consent of program director are required.

PSYC 6002. Proseminar in Psychological Science II. Unit: 1

Research seminar for second-year graduate students. Provides exposure to faculty research while providing peer and instructional support for students attempting to develop their own research projects.

PSYC 6091. Graduate Research in Psychology. Unit: 1

Semester Prerequisite: Classified graduate standing in an MA or MS Psychology program and consent of instructor

Original research in psychology conducted under the direction of a faculty member. Units may not count towards the MA and MS in Psychology. Graded credit/no credit. Formerly offered as PSYC 609B.

PSYC 6092. Graduate Research in Psychology. Units: 2

Semester Prerequisite: Classified graduate standing in an MA or MS Psychology Program and consent of instructor. Quarter Prerequisite: classified standing and consent of instructor

Original research in psychology conducted under the direction of a faculty member. Units may not count towards the MA and MS in Psychology. Graded credit/no credit. Formerly offered as PSYC 609B.

PSYC 6093. Graduate Research in Psychology. Units: 3

Semester Prerequisite: Classified graduate standing in an MA or MS Psychology Program and consent of instructor are required. Quarter Prerequisite: classified standing and consent of instructor

Original research in psychology conducted under the direction of a faculty member. Units may not count towards the M.A. and M.S. in Psychology. Graded credit/no credit. Formerly offered as PSYC 609C.

PSYC 6094. Graduate Research in Psychology. Units: 4

Semester Prerequisite: Classified graduate standing in an MA or MS Psychology Program and consent of instructor are required. Quarter Prerequisite: classified standing and consent of instructor

Original research in psychology conducted under the direction of a faculty member. Units may not count towards the MA and MS in Psychology. Graded credit/no credit. Formerly offered as PSYC 609D.

PSYC 6095. Graduate Research in Psychology. Units: 5

Semester Prerequisite: Classified graduate standing in an MA or MS Psychology Program and consent of instructor are required. Quarter Prerequisite: classified standing and consent of instructor

Original research in psychology conducted under the direction of a faculty member. Units may not count towards the MA and MS in Psychology. Graded credit/no credit. Formerly offered as PSYC 609E.

PSYC 6121. Directed Readings. Unit: 1

Semester Prerequisite: Classified graduate standing and consent of department

Special topics involving supervised readings under the direction of a faculty member.

PSYC 6122. Directed Readings. Units: 2

Semester Prerequisite: Classified graduate standing and consent of department. Quarter Prerequisite: graduate standing and consent of department

Special topics involving supervised readings under the direction of a faculty member. Formerly offered as PSYC 612B.

PSYC 6123. Directed Readings. Units: 3

Semester Prerequisite: Classified graduate standing and consent of department. Quarter Prerequisite: graduate standing and consent of department

Special topics involving supervised readings under the direction of a faculty member. Formerly offered as PSYC 612C.

PSYC 6124. Directed Readings. Units: 4

Semester Prerequisite: Classified graduate standing and consent of department. Quarter Prerequisite: graduate standing and consent of department

Special topics involving supervised readings under the direction of a faculty member. Formerly offered as PSYC 612D.

PSYC 6125. Directed Readings. Units: 5

Semester Prerequisite: Classified graduate standing and consent of the psychology department. Quarter Prerequisite: graduate standing and consent of department

Special topics involving supervised readings under the direction of a faculty member. Formerly offered as PSYC 612E.

PSYC 6601. Job Analysis, Performance Management, & Compensation. Units: 3

Quarter Prerequisite: classified graduate standing in MA or MS degree program or consent of department

Current research and methods of performance appraisal. Topics include the study of job analysis, performance appraisal processes and instrumentation, including examination of research on compensation systems. Formerly PSYC 601.

PSYC 6602. Organizational Development, Training, and Work Groups. Units: 3

Quarter Prerequisite: classified graduate standing in MA or MS degree program or consent of department

Critical review of current psychological theories and methods of organizational change and group processes. Topics include interventions at the individual (training), group, and organizational levels. Formerly offered as PSYC 602.

PSYC 6603. Talent Acquisition and Legal Issues. Units: 3

Quarter Prerequisite: classified graduate standing in MA or MS degree program or consent of department

Principles and methods of personnel selection, including validation strategies and the effects of governmental and legal issues on personnel actions. Formerly known as PSYC 603.

PSYC 6604. Motivation and Leadership. Units: 3

Quarter Prerequisite: classified graduate standing in MA or MS degree program or consent of department

Review and critical discussion of major theories and current research of motivation and leadership in the workplace including a review of their application in work organizations. Formerly known as PSYC 604.

PSYC 6614. Couples Counseling. Units: 3

Theory and practice of counseling with couples. Formerly offered as PSYC 614.

PSYC 6617. Clinical Psychopharmacology. Units: 3

Theory and application of psychotropic principles for the major DSM psychiatric disorders, including the examination of the effects of psychotropic drugs and medications on experience, behavior and symptoms. Classified graduate standing or consent of department are required. Formerly offered as PSYC 617.

PSYC 6618. Community and Public Mental Health. Units: 3

Provision of marriage and family therapy in community and public mental health settings, including recovery-oriented principles, client advocacy, case management, and systems of care as well as strategies for therapeutic intervention consistent with strengths-based, evidence-based practice. Formerly offered as PSYC 618.

PSYC 6619. Community Disaster, Trauma and Resilience. Units: 3

Community disaster and trauma response, crisis intervention, as well as training in resilience models for trauma recovery. Formerly offered as PSYC 619.

PSYC 6630. Teaching of Psychology. Units: 3

Quarter Prerequisite: classified graduate status in psychology or consent of department

Instructional methods for teaching of psychology at the college level. Formerly offered as PSYC 630.

PSYC 6633. Professional Ethics & Law in Counseling. Units: 3

Semester Prerequisite: Classified standing in a Psychology MS degree program or consent of department

Ethical and legal considerations involved in counseling practice, including statutory law, legal trends, and ethical behavior in the mental health profession. Formerly offered as PSYC 663.

PSYC 6636. Multicultural Counseling. Units: 3

Semester Prerequisite: Classified standing in the MS Clinical and Counseling Program or consent of department. Quarter Prerequisite: classified standing in a Psychology MS or MA degree program or consent of department

Study of how cultural values and ethnic backgrounds influence counseling process and outcome, with focus on counseling with African American, Latinx, Asian, and Native American populations. Classified standing in the MS Clinical/Counseling Program or consent of department are required. Formerly offered as PSYC 636.

PSYC 6638. Substance Abuse: Detection, Assessment and Treatment. Units: 3

Semester Prerequisite: Classified standing in a Psychology MS or MA program and consent of department. Quarter Prerequisite: Classified standing in Psychology MS or MA programs and consent of department

Assessment and treatment of substance abuse, including alcoholism and other forms of chemical dependency with a focus on etiological factors and relapse prevention. Classified standing in a Psychology MS or MA Program and consent of department are required. Formerly offered as PSYC 638 as well as PSYC 6638: Neuropharmacology of Psychiatric Disorders in AY 2020-2021.

PSYC 6640. Advanced Methods in Psychological Research. Units: 3

Semester Prerequisite: Classified graduate standing and department consent required. Quarter Prerequisite: classified standing and consent of department

Those aspects of philosophy of science and methods of inquiry as applied to procedures for obtaining and evaluating data as well as issues in experimental design. Classified graduate standing and department consent required. Formerly known as PSYC 640.

PSYC 6641. Analysis of Variance. Units: 4

Semester Prerequisite: Classified graduate standing or consent of department

Review of concepts of statistical inference. Applications of statistical techniques to the design and interpretation of experimental research with an emphasis on Analysis of Variance (ANOVA). Statistical computer packages will be introduced in the laboratory section. Three hours lecture and three hours laboratory. Formerly offered as PSYC 641. Materials fee required.

PSYC 6642. Regression and Nonparametric Statistics. Units: 4

Semester Prerequisite: Classified graduate standing or department consent. Quarter Prerequisite: classified standing or consent of department

Review of concepts of statistical estimation. Applications of statistical techniques to the design and interpretation of applied correlational and quasi-experimental research with an emphasis on correlation, regression, and nonparametric techniques. Statistical computer packages will be introduced in the laboratory section. Three hours lecture and three hours laboratory. Materials fee required. Formerly known as PSYC 642.

PSYC 6643. Multivariate Methods. Units: 3

Semester Prerequisite: PSYC 6641 or equivalent, classified graduate standing or consent of department. Quarter Prerequisite: PSYC 641 or equivalent, classified standing or consent of department

Multivariate models used in psychological research, including multiple regression, discriminant function analysis, factor analysis, canonical analysis, and multiple analysis of variance. Two hours lecture and three hours laboratory. Formerly offered as PSYC 643.

PSYC 6644. Applied Psychological Measurement. Units: 3

Semester Prerequisite: Classified graduate standing or consent of department. Quarter Prerequisite: classified graduate standing in MA or MS program or consent of department

Theories, methods, and issues of psychological measurement and assessment. Topical coverage will include test construction, test evaluation, survey development, ethics, and testing in applied settings. Two hours lecture and three hours lab.Formerly offered as PSYC 644.

PSYC 6650. Advanced Cognitive Psychology. Units: 3

Quarter Prerequisite: Classified graduate standing in Psychology MA or MS degree program and consent of department

Research and theories in the psychology of thinking, knowing and remembering. Classified graduate standing in Psychology MA or MS degree program or consent of instructor are required. Formerly offered as PSYC 650.

PSYC 6652. Advanced Learning and Motivation. Units: 3

Quarter Prerequisite: Classified graduate standing in Psychology MA or MS degree program and consent of department

Major theories and research in learning and motivation with emphasis on current issues. Formerly offered as PSYC 652.

PSYC 6654. Advanced Life-Span Developmental Psychology. Units: 3

Examination of the developmental processes, theories, issues and research in life-span developmental psychology. Formerly offered as PSYC 654.

PSYC 6656. Advanced Biological Psychology. Units: 3

Quarter Prerequisite: Classified graduate standing in Psychology MA or MS degree program and consent of department

Study of biological bases of behavior with emphasis on recent research. Classified graduate standing in Psychology MA or MS degree program or consent of instructor are required. Formerly offered as PSYC 656.

PSYC 6658. Advanced Social Psychology. Units: 3

Quarter Prerequisite: Classified graduate standing in Psychology MA or MS degree program and consent of department
Major theories, methods and empirical findings in social psychology. Example topics include prejudice and stereotyping, social cognition, social perception, the self, group processes, and emotions. Classified graduate standing in Psychology MA or MS degree program or consent of instructor are required. Formerly offered as PSYC 658.

PSYC 6665. Psychopathology. Units: 3

Semester Prerequisite: Classified standing in the MS Clinical/Counseling Program and consent of department; or PSYC 3390, classified standing in another Psychology MA or MS program and consent of department; or PSYC 3390, or consent of department. Quarter Prerequisite: PSYC 390, classified standing in other Psychology MA or MS degree programs or consent of department; or PSYC 390 or consent of department
Review of major classification systems of mental disorders including descriptive symptomatology, etiology, and treatment considerations. Formerly offered as PSYC 665.

PSYC 6667. Family Processes. Units: 3

Normal and dysfunctional family processes, including analysis of family and couple systems, family communication, intimate partner violence and strategies for therapeutic intervention. Formerly offered as PSYC 667.

PSYC 6671. Marriage and Family Therapy Skills I. Units: 6

Semester Prerequisite: Classified standing in the MS Clinical/Counseling program or consent of department. Quarter Corequisite: Concurrent enrollment in PSYC 687A. Quarter Prerequisite: Classified standing in the MS program or consent of department
Semester Corequisite: Concurrent enrollment in PSYC 6871
Foundational skills in counseling, the therapeutic alliance, crisis management and treatment planning. Three hours seminar and three hours recitation. Formerly offered as PSYC 671.

PSYC 6672. Marriage and Family Therapy Skills II. Units: 6

Semester Prerequisite: Classified standing in the MS Clinical/Counseling program and a grade of no less than B- in PSYC 6671, or consent of department. Quarter Corequisite: concurrent enrollment in PSYC 687B and consent of department. Quarter Prerequisite: grade of no less than B- in PSYC 671
Semester Corequisite: Concurrent enrollment in PSYC 6872
Advanced counseling skills used to identify and modify familial, relational, emotional, cognitive and behavioral aspects of individual, couple, family and sexual functioning. Three hours seminar and three hours recitation. Formerly offered as PSYC 672.

PSYC 6674. Child Therapy. Units: 3

Advanced counseling skills used with children and adolescents, including detection, assessment, and treatment of child abuse. Classified standing in the Clinical/Counseling MS Program and consent of department.

PSYC 6675. Practicum in Applied Psychology. Units: 3

Training in the application of methods and theories of psychology to the solution of practical problems within organizations. The course will include both a classroom component and out-of-class applications. Applications will include issues of ethical awareness, decision-making, and behavior in organizational analysis and interventions. Formerly offered as PSYC 675.

PSYC 6679. Theories of Counseling and Psychotherapy. Units: 3

Semester Prerequisite: Classified standing in the MS Clinical/Counseling Psychology program or consent of department
Comparative analysis of major theories related to current practice of counseling and psychotherapy. Formerly offered as PSYC 679.

PSYC 6680. Advanced Seminar in Psychology. Units: 3

Semester Prerequisite: Classified graduate standing or consent of department. Quarter Prerequisite: Classified standing or consent of department
Selected advanced topics which encompass areas of current theoretical and/or research interest in psychology. May be repeated for credit as topics change. Formerly offered as PSYC 680.

PSYC 6682. Clinical Assessment. Units: 3

Semester Prerequisite: Classified standing in the MS Clinical/Counseling Program or consent of department. Quarter Prerequisite: classified standing or consent of department
Methods of intellectual, diagnostic, and personality assessment with children and adults. Classified standing in the MS Clinical/Counseling Program or consent of department are required. May not be taken for credit by students who have received credit for PSYC 683. Formerly offered as PSYC 682.

PSYC 6684. Topics in Counseling Psychology. Units: 3

Semester Prerequisite: Classified standing in the MS Clinical/Counseling Program or consent of department
Selected topics within counseling psychology. May be repeated for credit as topics change. Formerly offered as PSYC 684.

PSYC 6871. Marriage and Family Therapy Practicum I. Units: 3

Semester Prerequisite: Classified standing in MS Clinical/Counseling Program or consent of department. Quarter Corequisite: concurrent enrollment in PSYC 671. Quarter Prerequisite: consent of department
Semester Corequisite: Concurrent enrollment in PSYC 6671
Supervised counseling practicum. Graded credit/no credit. Formerly offered as PSYC 687.

PSYC 6872. Marriage and Family Therapy Practicum II. Units: 3

Semester Prerequisite: Classified standing in MS Clinical/Counseling Program or consent of department. Quarter Corequisite: concurrent enrollment in PSYC 672. Quarter Prerequisite: consent of department
Semester Corequisite: concurrent enrollment in PSYC 6672
Supervised counseling practicum. Graded credit/no credit. Formerly offered as PSYC 687.

PSYC 6891. Externship in Applied Psychology. Unit: 1

Semester Prerequisite: PSYC 6640 and consent of department. Quarter Prerequisite: PSYC 6640 and consent of department
Supervised field work in a public or private setting for additional training and extension of skills developed in the graduate program. The externship requires approval by a faculty supervisor. A total of three units of externship may apply toward the M.S. in Industrial and Organizational Psychology degree. Graded credit/no credit. Formerly offered as PSYC 689A.

PSYC 6892. Externship in Applied Psychology. Units: 2

Semester Prerequisite: PSYC 6640 and consent of department. Quarter Prerequisite: PSYC 640 and consent of department
Supervised field work in a public or private setting for additional training and extension of skills developed in the graduate program. The externship requires approval by a faculty supervisor. A total of three units of externship may apply toward the M.S. in Industrial and Organizational Psychology degree. Graded credit/no credit. Formerly offered as PSYC 689B.

PSYC 6893. Externship in Applied Psychology. Units: 3

Semester Prerequisite: PSYC 6640 and consent of department. Quarter Prerequisite: PSYC 6640 and consent of department
Supervised field work in a public or private setting for additional training and extension of skills developed in the graduate program. The externship requires approval by a faculty supervisor. A total of three units of externship may apply toward the M.S. in Industrial and Organizational Psychology degree. Graded credit/no credit. Formerly offered as PSYC 689C.

PSYC 6951. Advanced Independent Study. Unit: 1

Semester Prerequisite: PSYC 6640 or PSYC 6641; Classified graduate standing and consent of department. Prerequisite: PSYC 640 or PSYC 641; advancement to candidacy and consent of department
Advanced research on a specific topic selected by the student with the approval of the students thesis advisor. May be repeated up to two times for a total of 3 units credit with approval of the student's advisor and the department chair. Only three to five units of independent study are required for the masters degree depending on the program. Formerly offered as PSYC 611A.

PSYC 6952. Advanced Independent Study. Units: 2

Semester Prerequisite: PSYC 6640 or PSYC 6641; Classified graduate standing and consent of department. Quarter Prerequisite: PSYC 640 or PSYC 641; advancement to candidacy and consent of department
Advanced research on a specific topic selected by the student with the approval of the students thesis advisor. May be repeated one time for a total of 4 units credit with approval of the student's advisor and the department chair. Only three to five units of independent study are required for the masters degree depending on the program. Formerly offered as PSYC 611B.

PSYC 6953. Advanced Independent Study. Units: 3

Semester Prerequisite: PSYC 6640 or PSYC 6641; Classified graduate standing and consent of department. Quarter Prerequisite: PSYC 640 or PSYC 641; advancement to candidacy and consent of department
Advanced research on a specific topic selected by the student with the approval of the students thesis advisor. May be repeated one time for a total of 6 units credit with approval of the student's advisor and the department chair. Only three to five units of independent study are required for the masters degree depending on the program. Formerly offered as PSYC 611C.

PSYC 6954. Advanced Independent Study. Units: 4

Semester Prerequisite: PSYC 6640 or PSYC 6641; Classified graduate standing and consent of department. Quarter Prerequisite: PSYC 640 or PSYC 641; advancement to candidacy and consent of department
Advanced research on a specific topic selected by the student with the approval of the students thesis advisor. May be repeated one time for a total of 8 units credit with approval of the student's advisor and the department chair. Only three to five units of independent study are required for the masters degree depending on the program. Formerly offered as PSYC 611D.

PSYC 6955. Advanced Independent Study. Units: 5

Semester Prerequisite: PSYC 6640 or PSYC 6641; Classified graduate standing and consent of department. Quarter Prerequisite: PSYC 640 or PSYC 641; advancement to candidacy and consent of department
Advanced research on a specific topic selected by the student with the approval of the students thesis advisor. May be repeated one time for a total of 10 units credit with approval of the student's advisor and the department chair. Only three to five units of independent study are required for the masters degree depending on the program. Formerly offered as PSYC 611E.

PSYC 6971. Advanced Practicum in Counseling Psychology I. Units: 2

Semester Prerequisite: Classified standing in the MS Clinical/Counseling program, PSYC 6671, PSYC 6672, PSYC 6871, PSYC 6872, PYSC 6971, or consent of department. Quarter Prerequisite: classified standing in the Psychology MS Program and consent of department
Supervised counseling field work in private or public mental health agencies. Graded credit/no credit. Formerly offered as PSYC 697A.

PSYC 6972. Advanced Practicum in Counseling Psychology II. Unit: 1

Semester Prerequisite: Classified standing in the MS Clinical/Counseling program, PSYC 6671, PSYC 6672, PSYC 6871, PSYC 6872, PYSC 6971, and consent of department. Quarter Prerequisite: Classified standing in the MS degree program, PSYC 671, PSYC 672, PSYC 687A, PSYC 687B, PYSC 687C; or consent of department
Supervised counseling field work in private or public mental health agencies. Graded credit/no credit. Formerly offered as PSYC 697B.

PSYC 6974. Thesis. Units: 4

Semester Prerequisite: PSYC 6640 and/or PSYC 6641, 3 to 5 units of independent study (depending on the program), advancement to candidacy, and consent of department. Quarter Prerequisite: PSYC 640 and/or PSYC 641; PSYC 611; advancement to candidacy and consent of department
Independent graduate research conducted under the guidance of the major advisor and resulting in a written thesis. Formerly offered as PSYC 699.

PSYC 6980. Comprehensive Examination. Units: 0

Semester Prerequisite: Advancement to candidacy, approval of department, completion of course work in the MS Clinical/Counseling Psychology program and good academic standing. Quarter Prerequisite: advancement to candidacy, approval of department, completion of course work in the masters program and good academic standing
An assessment of the students ability to integrate the knowledge of the area, show critical and independent thinking and demonstrate mastery of the subject matter. Department consent required. Formerly offered as PSYC 999A.

PSYC 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PSYC 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PSYC 6992. Continuous Enrollment for Graduate Candidacy Standing. Units: 2

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PSYC 6993. Continuous Enrollment for Graduate Candidacy Standing. Units: 3

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PSYC 6994. Continuous Enrollment for Graduate Candidacy Standing. Units: 4

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PSYC 6995. Continuous Enrollment for Graduate Candidacy Standing. Units: 5

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

PSYC 6996. Continuous Enrollment for Graduate Candidacy Standing. Units: 6

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

Serrano (SERR)

Courses

SERR 1111. Language Study I: Serrano. Units: 3

Introduction to Serrano language. Fundamentals of pronunciation, structure and culture designed to develop the ability to use and understand the language. Formerly FLAN 101S. Materials fee required.

SERR 1112. Language Study II: Serrano. Units: 3

Semester Prerequisite: SERR 1111

Intermediate study in Serrano language. Emphasis on oral and written competency at the intermediate level in a cultural context. Satisfies GE C2/3B, DI, G designations. Materials fee required.

SERR 2111. Language Study III: Serrano. Units: 3

Semester Prerequisite: SERR 1112S. Quarter Prerequisite: FLAN 103 or consent of department

Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis. Formerly FLAN 201S. Materials fee required.

SERR 2112. Language Study IV: Serrano. Units: 3

Semester Prerequisite: SERR 2111S. Quarter Prerequisite: FLAN 201S or consent of department

Further study of the language to develop proficiency in listening, speaking, reading, and writing with cultural emphasis. Formerly FLAN 202S. Materials fee required.

Sociology (SOC)

Courses

SOC 1000. Introduction to Sociology. Units: 3

Using a sociological perspective to examine how social forces, cultural processes, and institutional arrangements shape human behavior. Satisfies GE D3/4.

SOC 1100. Latino Communities, Wellness, and Life Skills. Units: 3

The course is designed to provide students with lifelong understanding and development of their capacities as members of a community, health promotion and decision making, the value of multidisciplinary study, and learning how to learn. Graded A through C-/no credit. Satisfies DI designation.

SOC 1800. Critical Thinking about Social Issues. Units: 3

Develop students' skills to analyze a range of social problems, focusing on their causes, consequences, mechanisms of change, and potential solutions. Satisfies GE A3/1B.

SOC 3010. Qualitative Analysis & Field Research. Units: 3

Semester Prerequisite: SOC 1000. Quarter Prerequisite: SOC 100

This course focuses on qualitative research methods such as participant observation, in-depth interviews, and unobtrusive methods and the analysis of qualitative data to examine social problems and other issues. Formerly offered as SOC 301.

SOC 3011. Qualitative Analysis & Field Research. Units: 4

This course focuses on qualitative research methods such as participant observation, in-depth interviews, and unobtrusive methods and the analysis of qualitative data to examine social problems and other issues. 3 hours of Lab activities in addition to 3 hours of lecture. Equivalent to SOC 3010, credit may not be awarded for both.

SOC 3020. Introduction to Community-Based Research. Units: 3

Semester Prerequisite: SOC 1000 or instructor consent. Quarter Prerequisite: SOC 1000

Examination of community-based participatory research as an approach to collaborative research between academic partners and community-based organizations and social service agencies. Emphasis on issues of power, trust, social justice, and empowering communities in building knowledge through research. Students in the Social Services and Community Research concentration are required to take this course to fulfill their qualitative research methods requirement.

SOC 3070. Quantitative Analysis & Survey Research. Units: 4

Basic concepts and techniques of survey research and statistical analysis. 3 hours of Lab activities in addition to 3 hours of lecture. Materials fee required.

SOC 3110. Sociological Theory. Units: 3

Semester Prerequisite: SOC 1000. Quarter Prerequisite: SOC 100
Exploration of classical and contemporary sociological theories, with applications to contemporary social life. Formerly offered as SOC 311.

SOC 3300. Aging and The Lifecourse. Units: 3

Semester Prerequisite: SOC 1000. Quarter Prerequisite: SOC 100
Issues facing individuals, families and communities in a rapidly aging world. Includes social, psychological, physical and economic aspects of aging. Formerly offered as SOC 330.

SOC 3360. Black Women and Feminism. Units: 3

Semester Prerequisite: SOC 1000. Quarter Prerequisite: SOC 100
Examines Black women in the US, their experiences and work on behalf of women's rights, focusing on the interplay of racism, sexism, and class stratification within women's movements. Formerly offered as SOC 336.

SOC 3390. Socialization. Units: 3

Semester Prerequisite: SOC 1000. Quarter Prerequisite: SOC 100
Comprehensive examination of socialization throughout the life course, childhood to adulthood. Theories and processes of socialization will be introduced by exploring social roles, norms, and agents of socialization such as the family, peer groups, schools, religious organizations, work, and mass media. Formerly offered as SOC 339.

SOC 3400. Sociology of Families. Units: 3

Semester Prerequisite: SOC 1000. Quarter Prerequisite: SOC 100
A systematic and comparative analysis of family structures, processes, and effects of social change on families. Topics include: marriage, reproduction, child rearing, and diversity of family structures. Formerly offered as SOC 340.

SOC 3410. The African American Family. Units: 3

Macro and Micro forces affect the contemporary African American family, emphasizing the socio-historical experience of these families. Satisfies GE D4/UD-4, DI designation.

SOC 3420. The Latino Family. Units: 3

Study of the changing Latino family patterns, and how these patterns shape Latino identities, social mobility, and social engagement in a multicultural society. The course will also examine regional and social class variations in Latino family structures and dynamics. Satisfies DI designation.

SOC 3430. Sociology of Violence. Units: 3

Semester Prerequisite: SOC 1000
Examining the prevalence, causes, and effects of selected violent relations as social phenomena, including family violence, domestic abuse, and intimate partner violence. Formerly offered as SOC 343.

SOC 3500. Criminology. Units: 3

Semester Prerequisite: SOC 1000. Quarter Prerequisite: SOC 100
Comprehensive examination of crime and theories of its causes with an emphasis on sociological factors. Formerly offered as SOC 350.

SOC 3540. Deviant Behavior. Units: 3

Semester Prerequisite: SOC 1000. Quarter Prerequisite: SOC 100
Examination of deviance and understanding of how such behavior is perceived as deviant by society; processes of personal-social interactions in developing individual and group deviance. Formerly SOC 354.

SOC 3550. Medical Sociology. Units: 3

Semester Prerequisite: SOC 1000. Quarter Prerequisite: SOC 100
Sociological examination of health and disease, training and socialization of health care providers, doctor-patient interactions, and health beliefs and behavior. Critical analysis of U.S. healthcare system and the economic and political factors that contribute to health inequalities. Formerly offered as SOC 355.

SOC 3560. Sociology of Mental Health. Units: 3

Semester Prerequisite: SOC 1000. Quarter Prerequisite: SOC 100
Social factors, race, class, gender, etc in mental health, including cultural variations in definitions of mental health and mental disorders, social processes in defining and labeling mental health, stigma, treatment of mental disorders, prevalence of mental disorders and indicators of quality of life. Formerly offered as SOC 356.

SOC 3600. Social Psychology. Units: 3

Semester Prerequisite: SOC 1000. Quarter Prerequisite: SOC 100
The study of social interaction as it influences the development of self, role behavior, attitudes and values. Emphasis on field research and symbolic interaction as a school of thought . Formerly offered as SOC 360.

SOC 3700. Sociology of Globalization. Units: 3

Semester Prerequisite: SOC 1000
Examines three dimensions of globalization: the economic, the cultural/social, and the political. Explore key debates and perspectives on globalization, different aspects and consequences of globalization, and inequalities between countries and within countries. Satisfies G designation.

SOC 3750. Population and Society. Units: 3

Semester Prerequisite: SOC 1000. Quarter Prerequisite: SOC 100
Examines social issues and problems influenced by population, population distributions, and population dynamics (fertility, mortality, and migration). Formerly known as SOC 335/3350. Satisfies GE G designation.

SOC 3800. Sociology of Religion. Units: 3

Semester Prerequisite: SOC 1000. Quarter Prerequisite: SOC 100
Theoretical analysis of religion as a social institution in complex societies. The course will explore the social organization of both established religions and emerging religious movements. Themes include the structures and functioning of religions and religious movements, their leadership and the potentials of social change that underlie many religious groups and organizations. Formerly offered as SOC 380.

SOC 3900. Sociology of Education. Units: 3

Semester Prerequisite: SOC 1000
Theoretical analysis of education as a social institution. The course will explore the social organization of education in the United States, including K-12 and postsecondary institutions. Topics include school segregation, tracking, and achievement gaps.

SOC 3940. Topics in Sociology. Units: 3

In-depth study of a selected subfield in Sociology. May be taken three times for a total of nine units as topics change.

SOC 4100. Sociology of Race and Ethnicity. Units: 3

Semester Prerequisite: SOC 1000. Quarter Prerequisite: SOC 100
Historical and contemporary analysis of racial and ethnic groups in the U.S. Examination of social, political, and economic factors that contribute to racial and ethnic inequality. Formerly offered as SOC 410.

SOC 4180. Social Welfare in the U.S.. Units: 3

Quarter Prerequisite: SOC 100
Survey of the development, implementation, and social implications of social welfare policies in the US. Analysis on the impact of the economy, politics, and social change on welfare programs, and contemporary social problems. Formerly offered as SOC 418.

SOC 4200. Social Movements. Units: 3

Quarter Prerequisite: SOC 100
Study of collective behavior and social movements. Covers historical and contemporary cases to examine theories of the emergence and mobilization of social movements and the culture and consequences of them. Formerly offered as SOC 420.

SOC 4220. Sociology of Work. Units: 3

Quarter Prerequisite: SOC 100
Examines the ways in which both paid and unpaid work in families and places of employment are organized by gender and other forms of power, difference and inequality such as race, class, and migration/citizenship status. Formerly offered as SOC 422.

SOC 4240. Social Networks. Units: 3

Quarter Prerequisite: SOC 100
Examining how social connections shape individual outcomes, organizational performance, and community well being. Using the technique of social network analysis (SNA), this course also surveys how social structures arise and maintain themselves. Formerly offered as SOC 424.

SOC 4300. Urban Sociology. Units: 3

Quarter Prerequisite: SOC 100
Nature, causes and consequences of urbanization; metropolitan areas; location and types of cities; social and demographic characteristics of urban populations. Formerly offered as SOC 430.

SOC 4320. Political Sociology. Units: 3

Quarter Prerequisite: SOC 100
Examination of political process from the perspective of sociology, exploring in depth the nature, distribution and exercise of power, and related areas of interest. Formerly offered as SOC 432.

SOC 4340. Community Organization. Units: 3

Quarter Prerequisite: SOC 100
Programs of action, operative and proposed, for the organization of the community and the solution of its problems. Formerly offered as SOC 434.

SOC 4360. Group Dynamics. Units: 3

Quarter Prerequisite: SOC 100
Groups are fundamental units of society. This course surveys group structures, processes, and change in the social psychological and social interactionist traditions. Formerly offered as SOC 436.

SOC 4400. Social Inequality. Units: 3

Quarter Prerequisite: SOC 100
Understanding different forms of social inequality and processes that produce variable outcomes for groups and individuals in terms of access and barriers to resources. The course highlights the intersection of social class, race, ethnicity, gender, sexuality, and physical abilities. Formerly offered as SOC 440.

SOC 4410. Black Americans in Contemporary Society. Units: 3

Quarter Prerequisite: SOC 100
An examination of contemporary social issues facing Black Americans, including social stratification, social mobility, and the organized efforts for social change. Formerly offered as SOC 441.

SOC 4420. The Latino Experience in the U.S.. Units: 3

The Latino Experience in the U.S. course will provide material on social, political and economic institutions and behavior, and their historical background as it relates to this community. The goal of this course is to give an overview of sociological, economic, and political and public policy, other issues about Chicano/Latino populations in the U.S., with particular attention to the experiences of persons of Mexican, Cuban, Puerto Rican, Dominican, and Salvadoran origin populations. The course can explore multiple topics which include the migration experience to the U.S., the construction of a Chicano/Latino racial identities, political integration of Latino migrants into U.S. domestic politics, social stratification, education, housing, gender inequality, popular culture, and U.S. born Latinos. Graded A through C-/no credit. Satisfies GE D4/UD-4, DI designation.

SOC 4440. Sociology of Sex and Gender. Units: 3

Quarter Prerequisite: SOC 100
Study of how sex and gender, as organizing principles of contemporary society, shape and is shaped by social institutions, cultural understandings, and social interactions. The course also examines how sex and gender relations affect individuals, their identities, and collective life in contemporary society. Formerly offered as SOC 444.

SOC 4510. Sociology of Migration. Units: 3

The course explores migration as a social process, focusing on the cultural, political, and historical contexts of immigration and the ways in which migrants interact with different institutions and identities, such as gender and race. Issues of assimilation, integration, incorporation, and diversity will be discussed to understand the impact of migration on individuals and society.

SOC 4520. Social Change and Innovation. Units: 3

Survey sociological theories on social change . Explore how structural and institutional transformation emerge and become routinized in society. Additionally, the course explores how social change spreads through social networks, affecting social interactions at various levels of society.

SOC 4530. Citizenship, Status, and Inequality. Units: 3

This course examines the concepts of citizenship and non citizenship, and how they are mobilized to produce social inequality. Themes include the production of migration "illegality" through law, media, and institutions. The course will also explore the strategies of undocumented migrants to negotiate their status, and the ways immigration status interlocks with other modes of oppression including race, gender, sexuality, age, and disability.

SOC 4550. Sexualities and Society. Units: 3

This course provides an introduction to the sociology of sexualities. We often think of sex and sexuality as deeply personal and private, but in this class, we'll also learn how sexualities are profoundly social - that is, how sexualities are situated in larger social contexts. In this class, we will critically unpack how sex and sexuality are socially constructed, experienced, regulated, and contested in society.

SOC 4840. Social Casework. Units: 3

Processes used by social work agencies to assist and empower individuals facing various challenges and ways to effectively cope with their issues. Formerly SOC 484.

SOC 5250. Indian Nations and Native America. Units: 3

Reviews the 500 years of conquest, genocide, resistance, and survival, including the contemporary realities of indigenous peoples. Satisfies WI designation.

SOC 5300. Global Aging. Units: 3

Semester Prerequisite: SOC 3010 or 3020 and SOC 3070 and SOC 3110 or senior standing or consent of instructor

Current research, issues, and societal changes related to global population aging. Satisfies G, WI designations.

SOC 5400. Sociology of Higher Education. Units: 3

Semester Prerequisite: SOC 3010 or 3020 and SOC 3070 and SOC 3110 or senior standing

Sociological analysis of higher education institutions in the United States, issues of inequality in the college-going process, specific attention to application, enrollment, and graduation. Satisfies WI designation.

SOC 5440. LGBTQ Families. Units: 3

Semester Prerequisite: SOC 3010 or 3020 and SOC 3070 and SOC 3110 or senior standing

Social forces affecting lesbian, gay, bisexual, transgender, and queer (LGBTQ) families. Emphasis on the socially constructed ways in which people who identify as LGBTQ create and define families. Topics include: legal issues, fertility and parenting concerns. Satisfies WI designation.

SOC 5450. Indigenous Peoples. Units: 3

Semester Prerequisite: SOC 3010 or 3020 and SOC 3070 and SOC 3110 or senior standing or consent of instructor

Sociological study of Indigenous Peoples from the local to the global. Formerly SOC 545/3450.

SOC 5490. Crime, Desistance, and Reentry. Units: 3

Semester Prerequisite: SOC 3010 or 3020 and SOC 3070 and SOC 3110 or senior standing

This course discusses the conduits and barriers to reentry for formerly incarcerated individuals in the United States, with special attention paid to issues affecting this population in California, including the social relationships between formerly incarcerated individuals and their family, friends, and communities. Formerly SOC 4900. Satisfies WI designation.

SOC 5500. Applied Sociological Research. Units: 3

This advanced course explores applied sociological and social science methods and frameworks which include evaluation research, public sociology, public policy, and community-based research. The course would include strategies for working with communities and the challenges that come with applied approaches. Satisfies WI designation.

SOC 5510. Borders, Knowledges, and Identities. Units: 3

Semester Prerequisite: SOC 3010 or 3020 and SOC 3070 and SOC 3110 or senior standing or consent of instructor

The course explores the production and reproduction of borders, not just national borders but numerous social and symbolic boundaries that underpin social mobility and immobility, inclusion and exclusion, how people interpret their social world, their identities and resistance. Satisfies G and WI designations.

SOC 5600. Social Determinants of Health. Units: 3

Semester Prerequisite: SOC 3010 or 3020 and SOC 3070 and SOC 3110 or senior standing

Overview of social determinants of health, including sociological theories and methods to examine health disparities among various social groups. The course will investigate social and environmental causes of disease, and contributors to physical and mental health. Additionally, the course will examine how health is impacted by health policies, socioeconomic status, race, gender, insurance status, etc. and ways to reduce and eliminate health disparities. Satisfies WI designation.

SOC 5753. Internship and Practicum. Units: 3

Quarter Prerequisite: Soc 1000

Quarter Corequisite: Consent of instructor

Supervised service-learning work in private companies, non-profit organizations, community-based organizations, or government agencies. Focus on hands-on practices and developing occupational skills.

The course involves class meetings on work progress and career development. Consent of instructor required. In order to receive credit, students are required to complete 120 hours of volunteer work in a semester. Graded credit/no credit. Formerly SOC 575 and SOC 5751.

SOC 5900. Seminar in Sociology. Units: 3

In-depth study of a selected topic in Sociology. Survey of a specific sub-field with an emphasis on writing research papers or research proposals. May be repeated once for a total of 6 units as topics change. Satisfies WI designation.

SOC 5951. Independent Study 1. Unit: 1

Quarter Prerequisite: senior or graduate standing, a minimum overall grade point average of 3

Special topics involving library and/or field research. Consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the semester in which the course is to be taken. May be taken 3 times for 3 units. Formerly SOC 595D.

SOC 5952. Independent Study 2. Units: 2

Semester Prerequisite: SOC 1000

Special topics involving library and/or field research. Consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the semester in which the course is to be taken. May be repeated once for a total of 4 units.

SOC 5953. Independent Study 3. Units: 3

Quarter Prerequisite: Soc 1000

Special topics involving library and/or field research. Consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the semester in which the course is to be taken. May be repeated once for a total of 6 units.

SOC 5971. Honors Seminar 1. Units: 3

Quarter Prerequisite: formal application approved by department chair

First course in the honor sequence. Independent research in an area of sociology, culminating in a major research report. The research project may be quantitative or qualitative. Class meetings focus on developing research designs, refining research ideas, and discussing research ethics and other topics on professional practices. Honor sequence 1 prepares students to collect data, write up, and create presentations during sequence 2. Enrollment limited to students whose formal application for departmental honors is approved. Formerly offered as SOC 597. Satisfies Designation WI.

SOC 5972. Honors Seminar 2. Units: 3

Quarter Prerequisite: SOC 5971

Second course in the honors sequence. Independent research in an area of sociology, culminating in a major research report. The research project may be a quantitative or qualitative. Class meetings explore issues on data collection, write up, presentations, research ethics, and professional practices. Enrollment limited to students whose formal application for departmental honors is approved.

SOC 6000. Proseminar in Sociology. Units: 3

Survey of the concepts and ideas that sociologists employ to study, describe, and analyze globalization and other related issues. Formerly offered as SOC 600.

Social Sciences (SSCI)

Courses

SSCI 3000. Global Issues and Perspectives. Units: 3

Studies current pressing issues ('wicked problems') facing the global community. This course explores various issues facing the global community using various social science perspectives to explore these issues and how to best address these pressing issues. The course focuses on one topic per term and the topics vary from term to term. May be taken three times for nine units as topics change. No more than nine units of any combination of SSCI 3000 and 3001 may be applied toward degree requirements. Satisfies GE D4/UD-4, DI, G designations, Global Connections pathway.

SSCI 3001. Global Issues and Perspectives. Units: 3

Studies current pressing issues ('wicked problems') facing the global community. This course explores various issues facing the global community using various social science perspectives to explore these issues and how to best address these pressing issues. The course focuses on one topic per term and the topics vary from term to term. May be repeated for credit as topics change. Students may take any combination of SSCI 3000 and SSCI 3001, for a maximum of 9 units. Satisfies GE D4/UD-4, DI, G, WI designations, Global Connections pathway.

SSCI 3010. Revolutions and Revolutionary Ideas. Units: 3

Studies social and political revolutions and revolutionary movements throughout history. The course explores how ideas forwarded by various revolutionaries and movements shaped and continue to influence our modern world, paying special attention to social, economic, and/or political programs of revolutionaries and to the global impact and circulation of their message/ideas. Satisfies GE D4/UD-4, DI, G designations.

SSCI 3011. Revolutions and Revolutionary Ideas. Units: 3

Studies social and political revolutions and revolutionary movements throughout history. The course explores how ideas forwarded by various revolutionaries and movements shaped and continue to influence our modern world, paying special attention to social, economic, and/or political programs of revolutionaries and to the global impact and circulation of their message/ideas. Satisfies GE D4/UD-4, DI, G, WI designations, Global Connections pathway.

SSCI 3020. The 20th Century World. Units: 3

Major events and significant individuals of the 20th century are explored and analyzed.

SSCI 3060. Expository Writing for the Social Sciences. Units: 3

Semester Prerequisite: GE 1C

Writing Intensive Course on topics in the social sciences. Instruction on literary quality development, proper citation formatting, documented research reports writing, summaries and analytical papers. Revision and rewriting will be required. Course fulfills the graduation requirement in writing proficiency. Students who have received a grade of no credit in any combination of the expository writing courses two or more times must meet with the 3060 coordinator or designee to design a developmental writing plan as a condition for enrolling for a third quarter. All students must obtain junior status at the time of registration or their course request will be cancelled. Satisfies WI designation.

SSCI 3160. Race and Racism. Units: 3

Quarter Prerequisite: Junior or senior standing

An interdisciplinary and cross-cultural examination of the concepts of race, ethnic group, prejudice and racism which includes studies of changing prejudiced attitudes. Satisfies GE D4/UD-4, DI, G designations.

SSCI 3250. Perspectives on Gender. Units: 3

Quarter Prerequisite: junior or senior standing

This interdisciplinary course uses scientific, humanistic, and social science perspectives to foster an understanding of how gender functions in individual lives, societies, and cultures. (Offered as CAL 3250, SSCI 3250 and NSCI 3250. Students may receive credit for only one of these courses.) Satisfies GE D4/UD-4, DI designation.

SSCI 3290. Topics in Social Science. Units: 3

Examination of popular and significant topics in social science. May be taken 3 times for a total of 9 units, as topics change.

SSCI 3320. Understanding Capitalism. Units: 3

Quarter Prerequisite: junior or senior standing

Exploration into the origins and nature of capitalism. Study of the political, cultural, and ideological structures that arise alongside capitalism. Consideration of differences between capitalism in different countries. The development of capitalism at the global level. Satisfies GE D4/UD-4, G designation, Big Ideas that Change the World: Exploring Ideas, Innovations, Discoveries pathway.

SSCI 3368. U-RISE Seminar I. Units: 2

Semester Prerequisite: Admissions to the URISE program and consent of instructor

A selected examination of original research articles in behavioral and biomedical sciences. Students will learn to critically read, critique, and present published scientific findings. Offered as NSCI 3368, PSYC 3368, and SSCI 3368 (students may receive credit for only one of these courses). Enrollment is limited to students whose formal application to the Undergraduate Research Training Initiative for Student Enhancement (U-RISE) program is approved. Formerly offered as NSCI 368, PSYC 369, SSCI 368.

SSCI 3390. Climate Change. Units: 3

The causes and consequences of climate change. Economic, political, cultural, ideological, and psychological factors are involved in climate change. Policies are proposed to mitigate climate change and facilitate adaptation to climate change. Global, national, and local aspects of climate change. Satisfies GE D4/UD-4, G designation, Environmental Sustainability pathway.

SSCI 4468. U-RISE Seminar II. Units: 2

Semester Prerequisite: NSCI 3368, PSYC 3368, or SSCI 3368. Quarter Prerequisite: NSCI 368, PSYC 368 or SSCI 368

A selected examination of original research articles in behavioral and biomedical sciences focuses on improving scientific writing skills, shaping long-term research projects, and developing research funding proposals. Offered as PSYC 4468, NSCI 4468, and SSCI 4468 (students may receive credit for only one of these courses). Enrollment is limited to students whose formal application to the Undergraduate Research Training Initiative for Student Enhancement (U-RISE) program is approved. Formerly known as NSCI 468, PSCI 468, SSCI 468.

SSCI 5000. Credit For Prior Learning. Units: 3

Students may receive college credit for their Prior Learning outside of a traditional classroom in a professional environment. Can be taken a maximum of two times for a total of six units. Graded credit/no credit.

SSCI 5749. Career Readiness in the Social and Behavioral Sciences. Unit: 1

This could is designed to prepare juniors, seniors or graduate students for developing the appropriate skills and professional portfolios for successfully entering their respective career choices. Department consent required.

SSCI 5750. Social Science Internship. Units: 3

Quarter Prerequisite: consent of the internship coordinator or department chair/coordinator

Supervised work and study in work situations involving social science skills. May be repeated once for a total of 6 units. Graded Credit/no credit.

SSCI 5761. Study Abroad. Units: 3

Explore issues related to the social and behavioral sciences through a pre- approved study abroad program at CSUSB. Department consent required.

SSCI 5799. California Water History and Resource Management. Units: 3

This course examines water in California Culture, History and Resource Management.

SSCI 5940. Senior Seminar. Units: 3

Quarter Prerequisite: senior standing

Assessment of the students academic progress through the preparation and submission of a portfolio of completed course work. Students also compose a research essay in one of the social science, arts or humanities fields, in consultation with the instructor. Satisfies WI designation.

SSCI 5950. Social Science Independent Study. Units: 3

Quarter Prerequisite: a minimum overall grade point average of 3

Special topics in social science research. A total of six units in SSCI 5950 may be applied toward the SSCI major and be applied toward graduation. Consent of the department chair/coordinator, filed in advance of the quarter in which the course is to be taken.

SSCI 5951. Social Science Independent Study. Unit: 1

Special topics in social science research. A total of six units of Social Science Independent Study (SSCI) may be applied toward the SSCI major. Consent of the department chair/coordinator, filed in advance of the term in which the course is to be taken. Make by taken 6 times for a total of 6 units.

SSCI 5952. Social Science Independent Study. Units: 2

Special topics in social science research. A total of six units of Social Science Independent Study (SSCI) may be applied toward the SSCI major. Consent of the department chair/coordinator, filed in advance of the term in which the course is to be taken. May be taken 3 times for a total of 6 units.

SSCI 5973. Social Science Honors Project. Units: 3

Original research or project in an area of the social sciences, culminating in a major research report or scholarly paper. A minimum GPA of 3.5 and department consent required.

SSCI 6000. Social and Cultural Perspectives in the Social Sciences. Units: 3

The relationship of values, behavior, social setting, and environment in the analysis of human interaction. Both intracultural and crosscultural perspectives will be addressed in light of interdisciplinary social science theories. Substantive and methodological contributions will be presented. Formerly known as SSCI 600.

SSCI 6010. Social Science Colloquium. Units: 2

Bi-Weekly research presentations by faculty, students, and visitors in multiple fields of Social Science on rotating topics. Supplemented by class discussions and online coursework related to these presentations and other material on current research interdisciplinary methodology. May be repeated for credit as topics change. Graded Credit/No credit.

SSCI 6020. Professional Development and Portfolio. Units: 2

Introduces students to professionalism in their academic disciplines and in academia, including conference proposals, presentation skills, curriculum vitae development, grant writing, networking, and program required digital portfolios.

SSCI 6030. Teaching Social Science Practicum. Units: 3

Methods of teaching within one or more disciplines in social sciences, observation of classroom management, development of syllabi and lectures, supervised teaching in the university classroom, and supervised assessment of student work.

SSCI 6200. Advanced Studies Of The 20th Century World. Units: 3

Advanced study of the major events and significant individuals of the 20th century are explored and analyzed.

SSCI 6750. Advanced Internship in the Social Sciences. Units: 3

Advanced supervised work and study in professional situations involving social science skills. May be repeated once for credit. May be taken 2 times for 6 units. Graded credit/no credit.

SSCI 6940. Directed Graduate Research. Units: 3

Graduate-level directed research for students conducting research under the direction of their faculty advisor and/or thesis/project committee chair. Department consent required.

SSCI 6950. Directed Graduate Studies. Units: 3

Graduate-level independent study for students; to be conducted under direct supervision of a faculty member from the student's committee and approval from the appropriate graduate coordinator.

SSCI 6973. Graduate Project or Thesis. Units: 3

Quarter Prerequisite: advancement to candidacy and consent of program coordinator

Independent graduate project or research conducted under guidance of the major advisor culminating in a written project or thesis. Graded Credit/No credit. Formerly offered as SSCI 699.

SSCI 6983. Comprehensive Examination. Units: 3

Quarter Prerequisite: approval of the department, completion of a minimum of two thirds of the course work in the master's program, and in good academic standing

Assessment of the student's ability to apply the theories, methods and understanding of the social sciences to the phenomena of globalization and in their area of specialization.

SSCI 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SSCI 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SSCI 6992. Continuous Enrollment for Graduate Candidacy Standing. Units: 2

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SSCI 6993. Continuous Enrollment for Graduate Candidacy Standing. Units: 3

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SSCI 6994. Continuous Enrollment for Graduate Candidacy Standing. Units: 4

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SSCI 6995. Continuous Enrollment for Graduate Candidacy Standing. Units: 5

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SSCI 6996. Continuous Enrollment for Graduate Candidacy Standing. Units: 6

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

Social Work (SW)

Courses

SW 2000. Introduction to Social Work. Units: 3

Introductory survey of levels of social work practice and fields of practice. Review of NASW professional code of ethics and social work resources. Formerly offered as SW 200.

SW 3001. Social Welfare Policy I. Units: 3

Semester Prerequisite: Admission into the BASW Program. Quarter Prerequisite: admission to BASW program

History of social work, development of structures of social welfare services and the role of policy in service delivery in Social Work. Formerly offered as SW 300A.

SW 3002. Social Welfare Policy II. Units: 3

Semester Prerequisite: SW 3001. Quarter Prerequisite: SW 300A

Frameworks for policy analysis of social welfare policies and social service delivery in organizational, local, state, national and international settings. Introductory social work policy practice skills. Formerly offered as SW 300B.

SW 3011. Social Work Research. Units: 3

Social Work approaches to qualitative and quantitative research that builds knowledge for social work practice. Interpreting and applying social work practice research to students own practice. Skills needed to implement a social work research project in a social work setting. Three hours of lecture and three hours of lab. Equivalent to SW 3010, cannot receive credit for both. Satisfies WI designation.

SW 3021. Human Behavior and the Social Environment I. Units: 3

Semester Prerequisite: Admission into the BASW Program. Quarter Prerequisite: admission to BASW Program

Theories and knowledge of human bio-psycho-social development from birth to young adulthood, including theories and knowledge about the range of social systems in which individuals live (families, groups, organizations, institutions and communities). Interactions between and among human biological, social, psychological and cultural systems as they affect and are affected by human behavior. Formerly offered as SW 302A.

SW 3022. Human Behavior and the Social Environment II. Units: 3

Semester Prerequisite: SW 3021

Theories and knowledge of human bio-psycho-social development in relation to adulthood and aging. Includes theories and knowledge about the range of social systems in which individuals live (families, groups, organizations, institutions and communities). Interactions between and among human biological, social, psychological and cultural systems as they affect and are affected by human behavior. Satisfies DI designation.

SW 4001. Social Work Practice I. Units: 3

Semester Prerequisite: SW 3002 and SW 3022. Quarter Prerequisite: SW 301

Theories, models and skills for social work interventions with individuals and families using a generalist model of social work practice. Designed to run concurrently with the field placement education.

SW 4002. Social Work Practice II. Units: 3

Semester Prerequisite: SW 4001. Quarter Prerequisite: SW 400A

Theories, models and skills for social work interventions with groups, communities, and organizations using a generalist model of social work practice. Designed to run concurrently with the field placement education.

SW 4011. Field Work. Units: 3

Semester Prerequisite: SW 3002 and SW 3022. Quarter Prerequisite: SW 301

Practice experience in public and private social service agencies with individuals, families, groups, formal organizations and communities. Field placement hours (240) and monthly seminar. Graded credit/no credit.

SW 4012. Field Work II. Units: 3

Semester Prerequisite: SW 4001 and SW 4011. Quarter Prerequisite: SW 301

Practice experience in public and private social service agencies with individuals, families, groups, formal organizations and communities. Field placement hours (240) and monthly seminar. Graded credit/no credit.

SW 4181. Social Work Practicum I. Units: 5

Semester Corequisite: SW 4001

Practice experience in public and private social service agencies with individuals, families, groups, formal organizations and communities. Practicum placement hours (240) and monthly seminar. Graded credit/no credit. Equivalent to SW 4011, cannot receive credit for both.

SW 4182. Social Work Practicum II. Units: 4

Semester Prerequisite: SW 4181 (formerly known as 4011)
Semester Corequisite: SW 4002

Practice experience in public and private social service agencies with individuals, families, groups, formal organizations and communities. Practicum placement hours (240) and monthly seminar. Graded credit/no credit. Equivalent to SW 4012, cannot receive credit for both.

SW 5031. Social Work in the Global Perspective. Units: 3

Major concepts and practices in international social work. Includes a study abroad component. Formerly known as SW 6031.

SW 5033. Social Work Intervention with Older Adults and Their Families. Units: 3

Quarter Prerequisite: SW 604B

Interventions with older adults and their families. Case management functions of social work practice with older adults and their families as well as clinical interventions for problems in later life. Formerly known as SW 6033.

SW 5034. Social Work with Alcohol and Drug Abuse II. Units: 3

Quarter Prerequisite: SW 604B

An examination of theories, research and treatment regarding alcohol and drug abuse. Satisfies California LCSW and MFCC requirement. Formerly known as SW 6034.

SW 5038. Public Child Welfare: Policy and Practice. Units: 3

Public child welfare services and issues from an advanced generalist perspective. Prepares social work students for evidence-based, culturally responsive, family-focused, strength-based, and outcome-oriented child welfare practice. Formerly known as SW 6038.

SW 5052. Social Welfare and American Indian/ Alaska Native People. Units: 3

Semester Prerequisite: Junior, senior, or graduate student standing required, optional 10 day course trip requires application and fees

This course examines the social welfare of American Indian and Alaska Native people and tribes, focusing on historical efforts to undermine tribes' very existence. Students will explore the ways tribes draw on sovereignty, cultural beliefs, and kinship networks to counter these efforts. In addition, students will interrogate the roles of social welfare policies and providers in harming Native communities and analyze contemporary efforts to provide culturally competent services. An optional 10 day service learning trip to the Pine Ridge Indian Reservation in South Dakota allows students to examine these social issues in depth among the Oglala Lakota people.

SW 5053. Social Work Practice with the LGBTQ2SIA+ Community. Units: 3

Integration of psychological, social, and political issues with which social workers should be familiar when working with members of the LGBTQ2SIA+ community.

SW 5054. Diversity, Equity, and Inclusion in Social Work Practice. Units: 3

This course examines diversity, equity, and inclusiveness, of specialized minority groups and subgroups within the context of social work practice. The course aims to enhance cultural competence/humility, by raising students' awareness of their own values, assumptions, and biases, as well as their relationships and styles of interaction and communication with people from cultures different than their own.

SW 5900. Special Topics. Units: 3

Semester Prerequisite: Admission into the BASW Program. Quarter Prerequisite: admission to the BASW Program
Special topics in social work. May be repeated for credit with consent of instructor as topics change. Formerly offered as SW 590.

SW 5951. Independent Study. Unit: 1

Special topics involving library and/or field research. May be repeated four times for four units. No more than four units of 5951-5953 may be awarded. Department consent required.

SW 5952. Independent Study. Units: 2

Special topics involving library and/or field research. May be repeated two times for four units. No more than four units of 5951-5953 may be awarded. Department consent required.

SW 5953. Independent Study. Units: 3

Quarter Prerequisite: consent of instructor
Special topics involving library and/or field research. No more than four units of 5951-5953 may be awarded. Department consent required.

SW 5973. Social Work Honors Project. Units: 3

Semester Prerequisite: SW 3010 and consent of the instructor. Quarter Prerequisite: SW 301 and consent of instructor
Original in-depth research in an area of social work practice.

SW 6011. Social Work Research I. Units: 3

Semester Prerequisite: SW 6041 and SW 6042. Quarter Prerequisite: SW 604B
Introduction to research methods, ethics, and politics of research, the role of research in social work practice, sampling techniques, measurement, data analysis, research designs, problem formulation, and literature review. Culminates in a preliminary Research Project Proposal. Formerly offered as SW 612.

SW 6012. Social Work Research II. Units: 3

Semester Prerequisite: SW 6011. Quarter Prerequisite: SW 612
Continued refinement of the Research Project Proposal. Revision and expansion of various quantitative and qualitative research methodologies, preparation and completion of human subjects application, and an introduction to computerized analysis. Formerly offered as SW 613.

SW 6015. Social Work Research Bridge. Units: 2

Semester Prerequisite: Admission into the Advanced Standing MSW program
Review of social work research methods, ethics, and politics of research, the role of research in social work practice, identifying reputable research materials, sampling techniques, measurement, data analysis, research designs, problem formulation, and literature review and synthesis. Students will be able to develop mastery in formulating research problem statements as well as appropriate research questions and/ or hypotheses. Cumulates in a preliminary Research Project Proposal.

SW 6016. Social Work Research III. Units: 3

Semester Prerequisite: SW 6011 and SW 6012
A culminating graduate experience in which a practice issue specific to the student's practicum setting and/or specialization is presented orally and in writing. Students complete a Research Project proposal, submit the final proposal to Graduate Studies for publication, and present the proposed study in the form of a poster.

SW 6021. Generalist Micro Practice I. Units: 3

Semester Prerequisite: Classified graduate standing in the MSW program. Quarter Prerequisite: classified graduate standing in the MSW program and consent of department
Semester Corequisite: SW 6081
Introduction to generalist model of practice with individuals, families and groups across diverse populations, comparative theories of micro practice, introductory assessment, diagnosis and intervention skills. History of micro practice, application of beginning phases of generalist intervention model. Formerly offered as SW 602A.

SW 6022. Generalist Micro Practice II. Units: 3

Semester Prerequisite: SW 6021. Quarter Prerequisite: SW 602A, classified graduate standing in the MSW program and consent of department
Semester Corequisite: SW 6082
Continued introduction to the generalist model of practice with individuals, families, and groups across diverse populations, comparative theories of micro practice, and intervention skills. Continued application of the generalist intervention model. Formerly offered as SW 602B.

SW 6023. Advanced Generalist Micro Practice I. Units: 3

Semester Prerequisite: SW 6022. Quarter Prerequisite: SW 602C
Semester Corequisite: SW 6083
Advanced theories, models, and skills applied to practice with diverse populations of individuals, groups and families. Micro practice in complex, interprofessional, interagency contexts. Formerly offered as SW 645.

SW 6024. Advanced Generalist Micro Practice II. Units: 3

Semester Prerequisite: SW 6023. Quarter Prerequisite: SW 645
Semester Corequisite: SW 6084
Continued advanced theories, models, and skills applied to practice with diverse populations of individuals, groups and families. Integration of advanced generalist skills and models of practice. Formerly offered as SW 646.

SW 6034. Addictions in Social Work Practice. Units: 3

Semester Prerequisite: Admission into the MSW Program
The design of this course will provide students with an introduction to a comprehensive, system-based examination of substance abuse and dependence.

SW 6035. Generalist Practice Bridge. Units: 3

Semester Prerequisite: Admission into the Advanced Standing MSW program

Writing intensive course giving instruction into the generalist model of practice with individuals, families, groups, organizations/agencies, and communities across diverse populations, social work ethics, comparative theories of practice, and intervention skills. This course blends contents of micro practice, macro practice, and human behavior in the social environment. This course provides students with an overview of psychopathology and diagnosis of mental disorders, and applies transdisciplinary theories toward understanding how pertinent macro issues (e.g., poverty, immigration, and racism) impact individuals' daily lives.

SW 6041. Human Behavior in the Social Environment: Lifespan Development. Units: 3

Semester Prerequisite: classified graduate standing in the MSW program. Quarter Prerequisite: classified graduate standing in the MSW program and consent of department

Critical examination and application of biological, psychological, and social aspects of human development from infancy through old age. Major theories, risk and protective factors. Formerly offered as SW 604A.

SW 6042. Human Behavior in the Social Environment: Critical Topics. Units: 3

Semester Prerequisite: SW 6041. Quarter Prerequisite: SW 604A, classified graduate standing in the MSW program and consent of department

Writing intensive course covering social work ethics, generalist practice, social systems theory, strengths perspective, empowerment, diversity, and oppression/discrimination. Also covers human sexuality, addiction, and beginning theoretical content on family and group dynamics. Formerly offered as SW 604B.

SW 6061. Generalist Macro Practice I. Units: 3

Semester Prerequisite: classified graduate standing in the MSW program. Quarter Prerequisite: classified graduate standing in the MSW program and consent of department

Overview of social welfare, social service sectors, and social work history and its mission in the U.S. Introduction to generalist model of practice with communities including theories of practice for planned change within communities. Formerly offered as SW 606A.

SW 6062. Generalist Macro Practice II. Units: 3

Semester Prerequisite: SW 6061. Quarter Prerequisite: SW 606A, classified graduate standing in the MSW program and consent of department

Introduction to social welfare legislation and policy analysis within the social, economic, and political context of the U.S. Emphasis on theories and skills for policy advocacy practice in the community, organizational/agency, and legislative arenas. Formerly offered as SW 606B.

SW 6063. Advanced Generalist Macro Practice I. Units: 3

Semester Prerequisite: SW 6062. Quarter Prerequisite: SW 606C

Theories and practice models of organizational/agency development, management, and, administration. Emphasis on managing and leading change within complex organizations. Formerly offered as SW 655.

SW 6064. Advanced Generalist Macro Practice II. Units: 3

Semester Prerequisite: SW 6063. Quarter Prerequisite: SW 655

Strategies and skills for leading large-scale change to address complex social problems through inter-agency/inter-professional collaboration & innovation. Formerly known as SW 656.

SW 6081. Generalist Field Work I. Units: 3

Semester Prerequisite: Classified graduate standing in the MSW program and consent of department. Quarter Prerequisite: classified graduate standing in the MSW program and consent of department

Semester Corequisite: SW 6021

Orient students to social work profession, define core areas of competent practice, and discuss application of theory to micro and macro practice within the context of field practicum and field seminar. Attain generalist practice experience in social service agencies with diverse populations of individuals, families, groups, organizations and communities. Field placement hours (240) and monthly seminar. Graded Credit/No credit. Formerly offered as SW 608A.

SW 6083. Advanced Generalist Field Work I. Units: 3

Semester Prerequisite: SW 6082. Quarter Prerequisite: SW 608C, classified graduate standing in the MSW program and consent of department

Semester Corequisite: SW 6023

Case conceptualization from an interprofessional, collaborative, and interagency perspective. Examine the roles, responsibilities, and characteristics of change agency and leadership in diverse complex situations within micro and macro practice settings. Attain advanced practice experience in social service agencies with diverse populations of individuals, families, groups, organizations and communities. Field placement hours (300) and monthly seminar. Graded Credit/No credit. Formerly offered as SW 608D.

SW 6084. Advanced Generalist Field Work II. Units: 3

Semester Prerequisite: SW 6083. Quarter Prerequisite: SW 608D, classified graduate standing in the MSW program and consent of department

Semester Corequisite: SW 6024

Continued case conceptualization from an interprofessional, collaborative, and interagency perspective. Examine the roles, responsibilities, and characteristics of change agency and leadership in diverse complex situations within micro and macro practice settings. Attain advanced practice experience in social service agencies with diverse populations of individuals, families, groups, organizations, and communities. Field Placement hours (300) and monthly seminar. Graded Credit/No credit. Formerly offered as SW 608E.

SW 6085. Generalist Field Work Bridge. Unit: 1

Semester Prerequisite: Admission into the Advanced Standing MSW program

Defining core areas of competent generalist social work practice, discussing application of theory to micro and macro practice within the context of field seminar. Preparation for advanced practice experience in social service agencies with diverse populations of individuals, families, groups, organizations, and communities. Graded credit/no credit.

SW 6113. Research Project I. Units: 3

Semester Corequisite: SW 6012

A culminating graduate experience in which a practice issue specific to the students field setting and specialization is objectively evaluated and presented orally and in writing. Students gather data and complete initial stages of implementation of research project under individual supervision. Equivalent to SW 6013, cannot receive credit for both.

SW 6114. Research Project II. Units: 3

Semester Prerequisite: SW 6113

Culminating graduate experience in which a practice issue specific to the students field setting and specialization is objectively evaluated and presented orally and in writing. Students complete data analysis, write the research report and present findings under individual supervision. Equivalent to SW 6014, cannot receive credit for both.

SW 6181. Generalist Practicum I. Units: 4

Orient students to social work profession, define core areas of competent practice, and discuss application of theory to micro and macro practice within the context of practicum and practicum seminar. Attain generalist practice experience in social service agencies with diverse populations of individuals, families, groups, organizations and communities. Field placement hours (240) and monthly seminar. Graded Credit/No credit. Equivalent to SW 6081, cannot receive credit for both.

SW 6182. Generalist Practicum II. Units: 3

Semester Prerequisite: SW 6181. Quarter Prerequisite: SW 608A, classified graduate standing in the MSW program and consent of department

Semester Corequisite: SW 6021

Continue orienting students to social work profession, defining core areas of competent practice, and discussing application of theory to micro and macro practice within the context of practicum and practicum seminar. Attain generalist practice experience in social service agencies with diverse populations of individuals, families, groups, organizations and communities. Field placement hours (240) and monthly seminar. Graded Credit/No Credit. Formerly offered as SW 608B and 6082.

SW 6183. Advanced Generalist Practicum I. Units: 4

Semester Prerequisite: SW 6082

Semester Corequisite: SW 6023

Case conceptualization from an interprofessional, collaborative, and interagency perspective. Examine the roles, responsibilities, and characteristics of change agency and leadership in diverse complex situations within micro and macro practice settings. Attain advanced practice experience in social service agencies with diverse populations of individuals, families, groups, organizations and communities. Practicum placement hours (300) and monthly seminar. Graded Credit/No credit. Equivalent to SW 6083, cannot receive credit for both.

SW 6184. Advanced Generalist Practicum II. Units: 4

Semester Prerequisite: SW 6183

Semester Corequisite: SW 6024

Continued case conceptualization from an interprofessional, collaborative, and interagency perspective. Examine the roles, responsibilities, and characteristics of change agency and leadership in diverse complex situations within micro and macro practice settings. Attain advanced practice experience in social service agencies with diverse populations of individuals, families, groups, organizations, and communities. Practicum placement hours (300) and monthly seminar. Graded Credit/No credit. Equivalent to SW 6084, cannot receive credit for both.

SW 6901. Advanced Topics in Social Work I. Units: 3

An intensive study of some aspects of social work. May be taken two times for 6 units.

SW 6902. Advanced Topics in Social Work II. Units: 3

Semester Prerequisite: SW 6041 and SW 6042

Advanced study of some aspects of social work. May be taken two times for six units as the topic changes.

SW 6971. Thesis Research. Units: 3

Quarter Prerequisite: classified graduate standing and consent of department

Preparation of a thesis for the Master of Social Work degree program under the direction of a students thesis committee. Formerly offered as SW 699.

SW 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SW 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SW 6992. Continuous Enrollment for Graduate Candidacy Standing. Units: 2

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SW 6993. Continuous Enrollment for Graduate Candidacy Standing. Units: 3

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SW 6994. Continuous Enrollment for Graduate Candidacy Standing. Units: 4

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SW 6995. Continuous Enrollment for Graduate Candidacy Standing. Units: 5

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SW 6996. Continuous Enrollment for Graduate Candidacy Standing. Units: 6

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

Spanish (SPAN)

Courses

SPAN 1102. College Spanish II Language Activity. Unit: 1

Semester Corequisite: Spanish 1112 or consent of department
A minimum of two academic hours (100 minutes) of weekly practice in the language laboratory. Cr/NC only. Must be taken concurrently with Spanish 1112 or consent from Department.

SPAN 1111. College Spanish I. Units: 4

Fundamentals of pronunciation, structure and Hispanic culture designed to develop the ability to use and understand basic spoken Spanish. Students who have not taken Spanish at California State University, San Bernardino, must take a placement test before registration. Contact department office for details. Materials fee required.

SPAN 1112. College Spanish 2. Units: 3

Semester Prerequisite: 2 years high school language study, placement exam, equivalent college-level course (eg SPAN 1111) or consent of department
Emphasis on oral and written competency at the beginning level in a cultural context. Students who have not taken Spanish at California State University, San Bernardino, must take a placement test before registration. Contact department office for details. Satisfies GE C2/3B, DI, G designations. Materials fee required.

SPAN 2111. Intermediate Spanish 1st Semester. Units: 4

Semester Prerequisite: SPAN 1112, SPAN 1113, or equivalent
Review of fundamentals and the study of structural patterns of Spanish. Readings of Spanish and Spanish American authentic cultural materials. Develops students' oral and written Spanish language skills. Students who have not taken Spanish at California State University, San Bernardino must take a placement test before registration. Formerly SPAN 201. Materials fee required.

SPAN 2112. Intermediate Spanish 2nd. Semester. Units: 4

Semester Prerequisite: Spanish 2111 or equivalent. Quarter Prerequisite: SPAN 201 or equivalent
Develops students' oral and written Spanish language skills. Reading and Writing intensive. A skills assessment exam based on defined performance standards is given at the end of the course. New students to the Spanish program must take a placement test before registration. Formerly Spanish 203. Materials fee required.

SPAN 2151. Accelerated Intermediate Spanish. Units: 8

Semester Prerequisite: Spanish 1112 or equivalent. Quarter Prerequisite: Span 103 or equivalent
Intensive course combines the content of the intermediate Spanish course sequence (Spanish 2111 and 2112) at an accelerated pace. The development of listening, speaking, reading and writing skills are emphasized through active use of the language. A Spanish Skills Assessment Exam based on defined performance standards is given at the end of the course. Materials fee required.

SPAN 2204. Conversation. Units: 4

Semester Prerequisite: Spanish 1112 or equivalent. Quarter Prerequisite: SPAN 103 or equivalent
Intensive Spanish oral practice stressing the discussion of current topics, panel discussions, debates, and oral presentations. This course begins with intermediate level oral practice and culminates in advanced levels of oral skills. Formerly SPAN 214. Materials fee required.

SPAN 2251. Intermediate Healthcare Spanish I. Units: 4

Semester Prerequisite: SPAN 1112, SPAN 1113, or equivalent
First course in an intermediate-level two-course sequence in Healthcare Spanish. Develops students' oral and written Spanish language skills, as well as knowledge of cultures with particular attention to healthcare related vocabulary, concepts, and situations. This writing-intensive course requires weekly written assignments and discussion. Formerly SPAN 251. Materials fee required.

SPAN 2252. Intermediate Healthcare Spanish II. Units: 4

Semester Prerequisite: Spanish 2111 or 2251. Quarter Prerequisite: SPAN 251 or equivalent
Second course in an intermediate-level sequence in Healthcare Spanish. Develops students' oral and written Spanish language skills, as well as knowledge of cultures with particular attention to healthcare related vocabulary, concepts, and situations. This writing-intensive course requires weekly written assignments and discussion. At the end of this course, students take the Junior Spanish Skills Assessment Exam to successfully enroll in Upper Division Spanish Language Courses. Formerly SPAN 253. Materials fee required.

SPAN 2261. Intermediate Criminal Justice Spanish I. Units: 4

Semester Prerequisite: SPAN 1112, SPAN 1113, or equivalent
The first course in an intermediate-level two-course sequence in Criminal Justice Spanish. Develops students' oral and written Spanish language skills and knowledge of cultures with particular attention to criminal justice-related vocabulary, concepts, and situations. This course requires weekly written assignments and discussions. Materials fee required.

SPAN 2262. Intermediate Criminal Justice Spanish II. Units: 4

Semester Prerequisite: SPAN 2111 or SPAN 2251 or SPAN 2261
Second course in an intermediate-level two-course sequence in Criminal Justice Spanish. Develops students' oral and written Spanish language skills, as well as knowledge of cultures with particular attention to criminal justice related vocabulary, concepts, and situations. This course requires weekly written assignments and discussion. At the end of this course, students take the Junior Spanish Skills Assessment Exam to successfully enroll in Upper Division Spanish Language Courses. Materials fee required.

SPAN 2900. Spanish Literature and Film in English. Units: 3

Introduction to Spanish literature, drama, and film read in English translation. Satisfies GE C2/3B, DI, G designations. Materials fee required.

SPAN 3051. Culture, Health, and Food in Latin America. Units: 3

Semester Prerequisite: SPAN 2112 or SPAN 2252. Quarter Prerequisite: SPAN 203 or 253 or equivalent

Exploration of culture as related to healthcare practices and nutrition in Latin America and Spanish-speaking communities in the US. Includes oral and written practice of the terminology. Includes activities with an interdisciplinary focus demonstrating cultural knowledge of diverse Hispanic cultures as they relate to healthcare. Materials fee required. Formerly SPAN 351.

SPAN 3061. Criminal Justice and Cultures of Spain and Latin America. Units: 3

Semester Prerequisite: SPAN 2262 or equivalent. Quarter Prerequisite: SPAN 203 or equivalent

Exploration of culture as related to practices in criminal justice in Spain, Latin America, and Spanish-speaking communities in the US. Includes oral and written practice of the terminology. Includes activities with an interdisciplinary focus demonstrating cultural knowledge of diverse Hispanic cultures related to criminal justice.

SPAN 3301. Advanced Spanish Language and Composition. Units: 3

Semester Prerequisite: SPAN 2112 or SPAN 2252 or SPAN 2262

Written and spoken Spanish to increase students' proficiency in advanced composition. Introduction to research and the preparation of critical essays and studies. Orientation to skills, resources, and strategies leading to the development of the Senior E-Portfolio to demonstrate success in the field of Spanish. Materials fee required.

SPAN 3302. Advanced Spanish Language and Composition Writing Lab. Unit: 1

Semester Prerequisite: SPAN 2112 or SPAN 2252 or SPAN 2262

Practice strategies to improve writing and use of grammatical structures. Students implement their Spanish skills by providing supervised and guided Spanish tutoring on campus or in the community as a service-learning activity. Student reports will be included in their E-portfolio. Graded Credit/No Credit.

SPAN 3303. Introduction to Literature in Spanish Speaking World. Units: 3

Semester Prerequisite: SPAN 3301 and SPAN 3302. Quarter Prerequisite: SPAN 302

An analytical study of the literary genres of Spanish and Spanish American literature with the objective of increasing vocabulary, reading for greater understanding, and content analysis. Introduction of key concepts and principles of literary analysis with an emphasis on undergraduate research. Literary critical writing emphasized and writing samples included in the students' E-Portfolio. Materials fee required.

SPAN 3305. Applied Spanish Grammar. Units: 3

Semester Prerequisite: SPAN 2112 or SPAN 2252 or SPAN 2262

A detailed study of the grammatical structures of Spanish (phonetics, phonology, morphology, and syntax). Includes an overview of methods and materials used for teaching Spanish. Requires analysis, discussion in class, and practical application of linguistic principles to the analysis of the Spanish language. Materials fee required.

SPAN 3307. Cultures of Spain. Units: 3

Semester Prerequisite: SPAN 2112 or SPAN 2252 or SPAN 2262

A study of the development of the cultures and origins of Spain, and the formations of identities in its history, literature, film and art. A survey course including lectures, discussion and writing. Materials fee required.

SPAN 3308. Cultures of Spain Activity. Unit: 1

Semester Prerequisite: SPAN 2112 or SPAN 2252 or SPAN 2262

Students demonstrate their acquired Spanish skills by engaging in a supervised and guided service-learning activity in relation to the cultures and origins of Spain. Scaffolding and guidance are provided by the instructor. A specific number of service hours is required. May be in a community or university-sponsored event. Graded Credit/No Credit.

SPAN 3309. Cultures of Spanish America. Units: 3

Semester Prerequisite: SPAN 2112 or SPAN 2252 or SPAN 2262

A study of the development of the cultures and origins of Spanish America, and the formations of identities in its history, literature, film and art. A survey course including lectures, discussion and writing. Materials fee required.

SPAN 3310. Cultures of Spanish America Activity. Unit: 1

Semester Prerequisite: SPAN 2112 or SPAN 2252 or SPAN 2262

Students demonstrate their acquired Spanish skills by engaging in a supervised and guided service-learning activity in relation to the cultures and origins of Spanish America. Scaffolding and guidance are provided by the instructor. A specific number of service hours is required. May be in a community or university-sponsored event. Graded Credit/No Credit.

SPAN 3900. Voices & Visions from the Hispanic World. Units: 3

Manifestations of culture and identity are examined through the study of Hispanic literature, past and present, and of the Spanish-speaking cultures. Satisfies GE C4/UD-3, DI, G, WI designations. Taught in English. May be taken for up to 6 units as topics change, but only 3 units can be used for GE. Materials fee required.

SPAN 4401. Spanish for the Professions. Units: 3

Semester Prerequisite: SPAN 2112 or SPAN 2252 or SPAN 2262

A study of the Spanish terminology and jargon used in various professions. Includes oral and written practice of the terminology and practical application of the newly acquired vocabulary and related cultural aspects. May be taken four times for 12 units as the topic changes. Materials fee required.

SPAN 4402. Spanish for the Professions Activity. Unit: 1

Semester Prerequisite: Span 2112 or Span 2252 or Span 2262

Students demonstrate their acquired Spanish skills by engaging in a supervised and guided in a service-learning activity. It may be in a community, university, or private sector-sponsored events, such as health fairs, radio, and television, in law enforcement, public service conferences, and/or cultural events. Students add their activity reports to their e-portfolio. May be taken four times for four units as the topic changes.

SPAN 4403. Spanish Dialectology. Units: 3

Semester Prerequisite: SPAN 3301 and SPAN 3302. Quarter Prerequisite: SPAN 302

An introduction to the history and description of existing Spanish varieties in Spain and Latin America. Overview of social factors in language, variation, and change and study of contemporary spoken and written Spanish in the United States. Requires discussion in class and class presentation of original research. Materials fee required.

SPAN 4404. Spanish Dialectology Activity. Unit: 1

Semester Prerequisite: Span 3301 and Span 3302. Prerequisite: Span 302

Students demonstrate their acquired Spanish skills by engaging in a supervised and guided service-learning activity. A specific number of service hours is required. May include providing tutoring in the university setting or in the community, and/or in public service events, conferences, or cultural fairs. Students will add their activity reports to their E-portfolio. Graded Credit/No Credit.

SPAN 4407. Special Topics in Peninsular Literature. Units: 3

Semester Prerequisite: SPAN 3303

Detailed study of representative authors, genres, periods, or regions of Spain. Emphasis on active involvement in investigative undergraduate research. Requires discussion in class and presentation of research demonstrating a deep understanding of subject matter to be included in E-Portfolio. May be taken for credit for 6 units as topics change. Materials fee required.

SPAN 4409. Special Topics in Spanish American Literature. Units: 3

Semester Prerequisite: SPAN 3303

Detailed study of representative authors, genres, periods, or regions of Spanish America. Emphasis on active involvement in investigative undergraduate research. Requires discussion in class and presentation of research demonstrating a deep understanding of subject matter to be included in E-Portfolio. May be taken two times for a total of six units as topics change. Materials fee required.

SPAN 4411. Special Topics in Spanish Language Cinema and/or Theatre. Units: 3

Semester Prerequisite: SPAN 3301, 3302, 3303, and 3305. Quarter Prerequisite: SPAN 302, 318, and 402

Detailed study of representative Spanish language cinema and/or theatre. Explores the development of the genre of theater in the Hispanic World in its social, cultural, historical, and political context either across time periods (medieval to 20th century) or within a certain literary movement (Romanticism, Avant-garde movement, etc). May be taken 2 times as topics change for a total of 6 units. Materials fee required.

SPAN 4412. Special Topics in Spanish Language Cinema and/or Theatre Activity. Unit: 1

Semester Prerequisite: Span 3301 and Span 3302, Span 3303, Span 3305. Prerequisite: Span 302, Span 402, Span 318

Includes original research and performance of stage or cinematic productions. May be repeated for a total of 2 units as topics change. Graded Credit/No Credit.

SPAN 4441. Internship Project. Unit: 1

An internship in Spanish may be completed at the Department or the university level or in the community. It must include 30 hours of service in Spanish. May be taken three times for three units. Graded Credit/No Credit. Consent required.

SPAN 4442. Internship Project. Units: 2

An internship in Spanish may be completed at the Department or the university level or in the community. It must include 60 hours of service in Spanish. Graded Credit/No Credit. Department consent required.

SPAN 4443. Internship Project. Units: 3

An internship in Spanish may be completed at the Department or the university level or in the community. It must include 90 hours of service in Spanish. Graded Credit/No Credit. Department consent required.

SPAN 4444. Internship Project. Units: 4

An internship in Spanish may be completed at the Department or the university level or in the community. It must include 120 hours of service in Spanish. Graded Credit/No Credit. Department consent required.

SPAN 5051. Seminar in Healthcare Spanish. Units: 3

Semester Prerequisite: SPAN 4402

Capstone seminar focusing on representative themes in the field of Healthcare Spanish. Includes oral and written practice of the relevant terminology and cultural aspects, as well as a practical application in a healthcare setting. Requires completion of a final project and an e-portfolio. Materials fee required.

SPAN 5501. Seminar in Peninsular Literature, Culture, Theater and Film. Units: 3

Semester Prerequisite: SPAN 3303, SPAN 3305, and SPAN 4401

Capstone seminar focusing on representative themes in the field of Peninsular literature, culture, theater or film. May be taken 2 times for 6 units as topics change. Materials fee required.

SPAN 5502. Peninsular Literature, Culture, Theater, and Film: Portfolio. Unit: 1

Semester Prerequisite: Span 3301 and Span 3302, Span 3303, Span 3305, Span 3307 or Span 3309, Span4401 and Span 4402, Span 4403 and Span 4404. Quarter Prerequisite: Span 302, Span 402, Span 318, Span 415, Span 410 or Span 412

Students will demonstrate their acquired Spanish skills by preparing and completing their senior E-Portfolio. May include delivering a scholarly presentation at a professional meeting or conference with guidance and supervision by the instructor. A Senior Skills Assessment Exam is administered (includes testing proficiency in the subject matter). May be taken 2 times for 2 units. Graded Credit/No Credit.

SPAN 5503. Seminar in Spanish American Literature, Culture, Theater and Film. Units: 3

Semester Prerequisite: SPAN 3302, SPAN 3305, and SPAN 4401

Capstone seminar focusing on representative themes in the field of Spanish American literature, culture, theater or film. May be taken 2 times for 6 units as topics change. Materials fee required.

SPAN 5504. Spanish American Literature, Culture, Theater, and Film: Portfolio. Unit: 1

Semester Prerequisite: Span 3301 and Span 3302, Span 3303, Span 3305, Span 3307 or Span 3309, Span4401 and Span 4402, Span 4403 and Span 4404. Quarter Prerequisite: Span 302, Span 37x, Span 402, Span 318, Span 415, Span 410 or Span 412

Students will demonstrate their acquired Spanish skills by preparing and completing their senior E-Portfolio. May include delivering a scholarly presentation at a professional meeting or conference with guidance and supervision by the instructor. A Senior Skills Assessment Exam is administered (includes testing proficiency in the subject matter). May be taken 2 times for 2 units. Graded Credit/No Credit.

SPAN 5505. Seminar in Hispanic Linguistics. Units: 3

Semester Prerequisite: SPAN 3303, SPAN 3305, and SPAN 4401

Capstone seminar in Hispanic linguistics. May be taken 2 times for 6 units as topics change. Materials fee required.

SPAN 5506. Hispanic Linguistics: Portfolio. Unit: 1

Semester Prerequisite: Span 3301 and Span 3302, Span 3303, Span 3305, Span 3307 or Span 3309, Span4401 and Span 4402, Span 4403 and Span 4404. Quarter Prerequisite: Span 302, Span 402, Span 318, Span 415, Span 410 or Span 412, Span 401, Span 416

Students will demonstrate their acquired Spanish skills by preparing and completing their senior E-Portfolio. May include delivering a scholarly presentation at a professional meeting or conference with guidance and supervision by the instructor. A Senior Skills Assessment Exam is administered (includes testing proficiency in the subject matter). May be taken 2 times for 2 units. Graded Credit/No Credit.

SPAN 5507. Seminar in Special Interdisciplinary Topics in Spanish Literature, Linguistics, or Culture. Units: 3

Semester Prerequisite: SPAN 3303 and SPAN 3305 and SPAN 4401

Seminar focusing on a significant interdisciplinary theme involving literatures, linguistics or cultures of Spain and/or Spanish America. May be taught in Spanish or English. Requires completion and presentation of a final project. May be taken two times for six units. Materials fee required.

SPAN 5555. Study Abroad and International Experience. Unit: 1

Semester Prerequisite: Instructor consent. Quarter Prerequisites: Instructor consent

Research project based on traveling or living in a Spanish-speaking country. Research for the project will be completed in the country of choice. When study is associated with an academic program, copies of grades, syllabus and submitted work may substitute for research project. May be repeated for credit for a total of 2 units. Graded credit/no credit.

SPAN 5556. Study Abroad and International Experience. Units: 2

Semester Prerequisite: Instructor consent. Quarter Prerequisite: Instructor consent

Research project based on traveling or living in a Spanish-speaking country. Research for the project will be completed in the country of choice. When study is associated with an academic program, copies of grades, syllabus and submitted work may substitute for research project. May be repeated for credit for a total of 4 units. Graded credit/no credit.

SPAN 5557. Study Abroad and International Experience. Units: 3

Semester Prerequisite: Instructor consent. Quarter Prerequisite: Instructor consent

Research project based on traveling or living in a Spanish-speaking country. Research for the project will be completed in the country of choice. When study is associated with an academic program, copies of grades, syllabus and submitted work may substitute for research project. May be repeated for credit for a total of 6 units. Graded credit/no credit.

SPAN 6606. Research Methods. Units: 3

Quarter Prerequisite: Graduate standing or consent of the graduate committee

Introduction to bibliography, research techniques, professional discourse styles, analysis and application of methods of contemporary literary theory and criticism. This course is a prerequisite to all 600-level courses in the M.A. in Spanish. It fulfills the writing intensive mandatory course requirement. Formerly offered as SPAN 606. Materials fee required.

SPAN 6608. History of the Spanish Language. Units: 3

Semester Prerequisite: SPAN 6606, graduate standing or consent of the graduate committee/coordinator. Quarter Prerequisite: SPAN 606, graduate standing or consent of the graduate committee/coordinator

Diachronic study of the development of Spanish from Latin to modern varieties of the language. In-depth analysis of phonological, morphological, and syntactic changes related to relevant events of Spanish and Spanish American history. Formerly SPAN 608. Materials fee required.

SPAN 6615. Second Language Acquisition in Spanish. Units: 3

Semester Prerequisite: Graduate standing, or consent of the graduate committee. Quarter Prerequisite: Graduate standing, or consent of the graduate committee

Study and application of current theories, research practices, and practical applications in second language acquisition with discussion of the development of different instructional approaches in relation to language acquisition theories focusing on current Spanish teaching practices. Materials fee required. Formerly offered as SPAN 615.

SPAN 6620. General Spanish Linguistics. Units: 3

Semester Prerequisite: Graduate standing and SPAN 6606, or consent of the graduate committee. Quarter Prerequisite: Graduate standing and SPAN 606, or consent of the graduate committee

Linguistics of the Hispanic World. Intensive study of contemporary issues in Spanish linguistics. Materials fee required. Formerly offered as SPAN 620 (Topics A-D).

SPAN 6625. Spanish Peninsular Literature. Units: 3

Semester Prerequisite: Graduate standing and SPAN 6606, or consent of the graduate committee. Quarter Prerequisite: Graduate standing and SPAN 606, or consent of the graduate committee

Advanced study of the literature of Spain from Medieval to Contemporary times. Formerly SPAN 650 A-D. Materials fee required.

SPAN 6630. Spanish American Literature. Units: 3

Semester Prerequisite: Graduate standing and SPAN 6606, or consent of the graduate committee. Quarter Prerequisite: Graduate standing and SPAN 606, or consent of the graduate committee
Advanced study of the literature of Spanish America from Colonial to Contemporary periods. Formerly SPAN 651 A-D. Materials fee required.

SPAN 6650. Spanish Peninsular Literature and Culture. Units: 3

Semester Prerequisite: Graduate standing and SPAN 6606, or consent of the graduate committee/coordinator. Quarter Prerequisite: Graduate standing and SPAN 606, or consent of the graduate committee/coordinator
Intensive study of significant works or a principal author from Spanish Peninsular literature and culture, from medieval to 21st century. Analysis and application of methods of contemporary literary theory and criticism employing principal texts from Spanish literature. A maximum of 6 units (different topics) may be applied toward the M.A. in Spanish. Formerly offered as SPAN 625A. Materials fee required.

SPAN 6651. Spanish American Literature and Culture. Units: 3

Semester Prerequisite: Graduate standing and SPAN 6606, or consent of the graduate committee/coordinator. Quarter Prerequisite: Graduate standing and SPAN 606, or consent of the graduate committee/coordinator
Intensive study of significant works or a principal author from Spanish-American Literature and Culture, or Latino cultures. Analysis and application of methods of contemporary literary theory and criticism employing principal texts from Spanish-American Literature. May be taken for up to 6 units as topics change for the M.A. in Spanish. Formerly offered as SPAN 630A. Materials fee required.

SPAN 6652. Modern Spanish American Literature. Units: 3

Advanced study of important contemporary aspects of Spanish-American culture and literature. May be taken two times for six units as topics change. Formerly 652A. Materials fee required.

SPAN 6653. Contemporary Chicanx/Latinx Literature in Spanish. Units: 3

Semester Prerequisite: graduate standing and SPAN 6606, or consent of the graduate committee/coordinator. Quarter Prerequisite: graduate standing and SPAN 606, or consent of the graduate committee/coordinator
Intensive analysis of works by Chicanx and Latinx writers in Spanish in the United States. Formerly offered as SPAN 653. Materials fee required.

SPAN 6654. Modern Spanish Peninsular Literature. Units: 3

Semester Prerequisite: Graduate standing and SPAN 6606, or consent of the graduate committee/coordinator. Quarter Prerequisite: Graduate standing and SPAN 606, or consent of the graduate committee/coordinator
Advanced study of the literature of the eighteenth to twenty-first centuries in Spain. A maximum of 6 units (different topics) may be applied to the M.A. in Spanish. Formerly SPAN 654A. Materials fee required.

SPAN 6655. Spanish Applied Linguistics. Units: 3

Semester Prerequisite: SPAN 6606, and graduate standing; or consent of the graduate committee/coordinator. Quarter Prerequisite: SPAN 606, and graduate standing; or consent of the graduate committee/coordinator
Study and discussion of current issues in Hispanic applied linguistics relevant to the following professions: Spanish teachers, translators, bilingual administrators, bilingual media specialist. A maximum of 6 units (different topics) may be applied toward the M.A. in Spanish. Formerly SPAN 665A. Materials fee required.

SPAN 6656. Spanish Semantics and Pragmatics. Units: 3

Semester Prerequisite: Graduate standing and SPAN 6606, or consent of graduate committee/coordinator. Quarter Prerequisite: Graduate standing and SPAN 606, or consent of graduate committee/coordinator
Study of noun and verbal systems of the Spanish language, as found in a variety of discourses, and analysis of forms and functional meaning in social contexts. Formerly SPAN 656. Materials fee required.

SPAN 6661. Graduate Portfolio. Unit: 1

Semester Prerequisite: Graduate standing or consent of Graduate Committee/Coordinator. Quarter Prerequisite: Graduate standing or consent of Graduate Committee/Coordinator
Preparation and submission of a portfolio with appropriate reflective writing samples and experiences of Spanish language instruction at the college level. Includes a discussion of current instructional methodology for foreign languages and a field component consisting of observation and teaching of college level Spanish language classes. Graded credit/no credit. Formerly offered as SPAN 696. Materials fee required.

SPAN 6695. Comprehensive Exam Preparation: Spanish Literature. Unit: 1

Guided practice of essay writing covering major aspects of critical literary analysis.

SPAN 6696. Comprehensive Exam Preparation: Spanish American Literature. Unit: 1

Guided practice of essay writing covering fundamental areas of literary analysis.

SPAN 6697. Comprehensive Exam Preparation: Spanish Linguistics. Unit: 1

Guided practice of essay writing covering fundamental areas of Spanish linguistics and analysis.

SPAN 6698. Comprehensive Examination. Units: 0

Semester Prerequisite: Department Consent Required
Written and oral examination covering Spanish linguistics, peninsular literature and culture, Spanish-American literature and culture, and Latino cultures in the United States. Examination is based on the core of required classes for the M.A. in Spanish as well as a reading list. Student must pass exam and any retests within one year of completion of the core and elective courses. Exam may be repeated once, and only the sections failed will be retested. Formerly SPAN 697. Materials fee required.

SPAN 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in 6991 each semester until the project or thesis is accepted or the comprehensive examination passed. Students who enroll in 6991 through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. See fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid. Formerly offered as SPAN 698.

Speech Language Pathology (SLP)

Supply Chain Management (SCM)

Courses

SCM 3040. Principles of Supply Chain Management. Units: 3

Semester Prerequisite: ADMN 2100. Quarter Prerequisite: ADMN 210
Introduction to supply chain management concepts and techniques. Methods that aid the manager in making rational decisions in manufacturing and service industries are discussed. Emphasis is on the application of models to managerial decision making. Formerly offered as SCM 304.

SCM 3500. Problem Solving and Decision Making. Units: 3

Semester Prerequisite: ADMN 2100 and IST 3110
This course covers many approaches in solving business problems from a managerial point of view. Students experiment with typical techniques and learn why/how these techniques work. Spreadsheets are used to experiment with such techniques. Emphasis is placed on input requirements and interpretation of results. Topics include: what-if analysis, networks, decision trees, sensitivity analysis, and goal seeking. Formerly offered as SCM 350. Also offered as IST 3500 and SCM 3500; credit cannot be awarded for both.

SCM 4000. Strategic Supply Chain and Logistics Management. Units: 3

This course provides an in-depth exploration of logistics and supply chain management, emphasizing its critical role in driving operational efficiency and achieving a competitive advantage in today's global business environment. Students will gain a comprehensive understanding of the strategies and practices involved in effectively managing the forward and reverse flow of goods, services, information, and capital between various supply chain entities, including suppliers, manufacturers, distributors, retailers, customers, and third-party logistics providers. This course applies strategic supply chain management to real-world scenarios, solving practical industry problems.

SCM 4100. Project Management: Principles and Practices. Units: 3

This course introduces the core principles of project management, focusing on defining projects, organizing project structures, and understanding the project life cycle. Students will explore essential methodologies, such as Agile, Critical Path Methods, Earned Value Management and other modern approaches. The course emphasizes best practices for mitigating risks, aligning budgets and schedules, and fostering effective teamwork. It covers the ethical and social responsibilities of project management teams. Practical experience includes developing a project plan, identifying and managing the project's critical path, and applying strategies to ensure successful project outcomes.

SCM 4400. Logistics and Transportation Management. Units: 3

Semester Prerequisite: SCM 3040
Logistics operations including demand management, inventory management, facility location, warehouse management, packaging and material handling, transportation management, and international freight movement planning in global supply chains. Formerly SCM 440.

SCM 4450. International Logistics. Units: 3

Semester Prerequisite: SCM 3040. Quarter Prerequisite: SCM 304
Logistics management involving goods and services in different countries. International business environment, international transportation, intermediaries, import/export regulations, payment and risks, and cultural differences of the global supply chain. Formerly offered as SCM 445.

SCM 4700. Advanced Supply Chain and Logistics Management. Units: 3

Semester Prerequisite: SCM 3040. Quarter Prerequisite: SCM 304
Comprehensive study of all activities and processes to supply products or services to final customers. Topics include: purchasing, logistics and supply chain optimization, risk management, inventory control, warehouse and distribution management. Formerly offered as SCM 470.

SCM 4750. Supply Chain Business Analytics. Units: 3

Semester Prerequisite: ADMN 2100. Quarter Prerequisite: IST 274
Comprehensive practice of the Business Analytics process, including forecasting, data extraction and mining, analytical modeling, detailed analysis, and reporting utilizing business cases. Formerly offered as SCM 475.

SCM 5030. Enterprise Resource Planning. Units: 3

Semester Prerequisite: SCM 3040 or SCM 6070. Quarter Prerequisite: SCM 304 or consent of instructor
This course introduces students to the concept and usage of Enterprise Resource Planning (ERP) to support organizational processes. It emphasizes how businesses are using ERP systems to integrate their business processes. Students will learn and understand business process data flows, and how that impacts the functional areas of an organization. Students will have hands-on experience using an ERP system. Formerly known as SCM 305/IST 3050/SCM 3050. Course is offered as IST 5030 and SCM 5030; credit cannot be awarded for both.

SCM 5050. Advanced Enterprise Resource Planning. Units: 3

Semester Prerequisite: SCM/IST 3050
This course will discuss the concepts, principles, and techniques for configuring and implementing organizational processes in enterprise resource planning (ERP). Emphasis will be placed on the cross-functional business processes and critical integration points that are necessary for the success of a company. Students will learn how to create relevant databases and configure an ERP system from the ground up. Formerly SCM 505. Also offered as IST 5050.

SCM 5150. Project Management. Units: 3

Semester Prerequisite: IST 3110
This course introduces students to project management theory, terms and concepts. Students will learn about project management constraints and their impact on a project's ability to meet business goals: time, cost, and performance. Students will learn techniques to manage people and how the workforce will impact, and be impacted by, the project management constraints. Topics include: project life cycle, how to build a successful project from pre-implementation to completion, sequencing and budgeting, project evaluation and control, project feasibility, risk analysis, resource allocation and project management tools. Formerly offered as SCM 515. Course is offered as IST 5150 and SCM 5150; credit cannot be awarded for both.

SCM 5250. Quality Management. Units: 3

Semester Prerequisite: SCM 3040 or SCM 6070
Description and analysis of quality assurance programs and techniques and their many applications in supply chain management from a total quality management perspective. Topics include quality planning, statistical quality control, quality design and measurement, management of quality and reliability, employee involvement for total quality management, and management of six sigma quality and inspection. Formerly offered as SCM 480 and 4800.

SCM 5753. Apprenticeship. Units: 3

Supervised work and study in private or public organizations in a department of labor registered apprenticeship. May be taken two times for six units. A total of six units of IST/SCM 5753 courses may be applied toward graduation. Graded credit/no credit.

SCM 5755. Internship. Unit: 1

Semester Prerequisite: Consent of college internship coordinator. Quarter Prerequisite: senior standing preferred; consent of instructor and the departments internship coordinator
Supervised work and study in private or public organizations. May be repeated for credit. A total of six units of Jack H. Brown College of Business and Public Administration 5753 or 5755 courses may be applied toward graduation. Graded credit/no credit.

SCM 5915. Seminar in Supply Chain Management. Unit: 1

Semester Prerequisite: SCM 3040 and consent of instructor. Quarter Prerequisite: SCM 304 and consent of instructor
An intensive study of some phase of supply chain management to be developed by the instructor. May be repeated for credit as topics change.

SCM 5930. Seminar in Supply Chain Management. Units: 3

Semester Prerequisite: SCM 3040 and consent of instructor. Quarter Prerequisite: SCM 304 and consent of instructor
An intensive study of some phase of supply chain management to be developed by the instructor. May be repeated for credit as topics change. Formerly offered as SCM 590.

SCM 5951. Independent Study. Unit: 1

Semester Prerequisite: Junior status, or graduate status
Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Course is cross-listed across different departments within the college.

SCM 5952. Independent Study. Units: 2

Semester Prerequisite: Junior status, or graduate status
Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Formerly offered as 595B. Course is cross-listed across different departments within the college.

SCM 5953. Independent Study. Units: 3

Semester Prerequisite: Junior status, or graduate status
Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Formerly offered as 595D. Course is cross-listed across different departments within the college.

SCM 5955. Independent Study. Unit: 1

Semester Prerequisite: Junior status, or graduate status
Special topics involving library and/or field research. A total of 8 units in any Jack H. Brown College of Business and Public Administration 5951, 5952, 5953, 5955 may be applied toward graduation. Consent of instructor and approval by the department of a written project/proposal submitted to the appropriate department in the Jack H. Brown College of Business and Public Administration on a standard application filed in advance of the semester in which the course is to be taken. Course is cross-listed across different departments within the college.

SCM 6070. Managing the Supply Chain. Units: 3

Integration and application of analytical techniques used in logistics and supply chain management. Concepts of decision models are examined for planning, control, forecasting, scheduling, and analysis within an enterprise. Formerly offered as SCM 607.

SCM 6110. Global Supply Chain Management and Logistics. Units: 3

Semester Prerequisite: SCM 6070. Quarter Prerequisite: SCM 607
Development, implementation and integration of global supply chain management and operations management strategy with business and other functional strategies of an organization. Topics include: decisions involving positioning, structuring and managing for superior competitive performance. Formerly offered as SCM 611.

SCM 6200. Integrated Logistics Management. Units: 3

Semester Prerequisite: SCM 6070 or consent of instructor
This course is a comprehensive study of integrated logistics including: supply chain strategy, competitiveness and sustainability, strategic procurement, material management, purchasing and supply management, third-party relationships, logistics information systems technologies, demand management, order processing systems and customer service management, inventory management, packaging and material handling systems, transportation modes, and forward and reverse logistics.

SCM 6300. Warehouse and Distribution Management. Units: 3

Semester Prerequisite: SCM 6070 or consent of instructor
This course covers order fulfillment management, distribution, omnichannel network design, warehouse design, materials handling, movement of goods and packaging in the warehouse, freight transportation, demand and cost factors, market structure, domestic and global policies and regulations, warehouse cost management, LEEDS, optimization, social and environmental impacts warehouse management systems, robots and technologies, inbound processes, storage, and outbound processes. Consent required.

SCM 6400. Supply Chain Security and Blockchain. Units: 3

Semester Prerequisite: IST 6090
Supply chain security is the part of supply chain management that focuses on minimizing risk for supply chain, logistics, and transportation management systems. The distributed ledger-driven blockchain technology has the potential to enhance supply chain visibility and transparency. Students will learn the importance of creating a secure end-to-end supply chain infrastructure and the use of blockchain-enabled smart contracts to integrate business processes, promote data standardization and protect operational technologies, systems, and resources. Additional topics include the purpose and requirements of ISO 28000, NIST-Cyber Supply Chain Risk Management (C-SCRM), and C-TPAT Supply Chain Risk Management System.

SCM 6600. Transportation and Supply Chain Management. Units: 3

Semester Prerequisite: SCM 6070. Quarter Prerequisite: SCM 607
Comprehensive study of managing transportation and the supply chain. Logistics of managing the pipeline of goods from initial contracts with suppliers and control of work-in-process to the movement of finished goods through the channels of distribution. Formerly offered as SCM 660.

SCM 6620. Business Analytics and Decision Making. Units: 3

Semester Prerequisite: IST 6090 or consent of instructor. Quarter Prerequisite: IST 609
The course provides an overview of the wide area of data analytics, with a particular focus on to the tools required to store, clean, manipulate, visualize, model, and ultimately extract information from various sources of data as well as an introduction to deterministic decision-making, decision making under uncertainty/risk, and application of optimization decision analysis tools. Topics include the analytics life cycle, data integration and modeling, the use of univariate and multivariate statistical methods to analyze data, relational databases and SQL, text processing and sentiment analysis, data visualization and the use of Business Intelligence Tools for modeling and decision support. Offered as IST 6620 and SCM 6620, students may not receive credit for both. Formerly offered as IST 650.

SCM 6755. Internship. Unit: 1

Semester Prerequisite: Consent of college internship coordinator. Quarter Prerequisite: senior standing preferred; consent of instructor and the departments internship coordinator
Supervised work and study in private or public organizations. May be repeated for credit. A total of six units of Jack H. Brown College of Business and Public Administration 5753 or 5755 courses may be applied toward graduation. Graded credit/no credit.

SCM 6910. Culminating Experience Project. Units: 3

Semester Prerequisite: Completion of 24 semester equivalent units or consent of the Program Director
The culminating experience will be a comprehensive logistics/e-commerce project to be directed, reviewed, and assessed by faculty and selected professionals to ensure students ability to integrate the knowledge of the area and to show critical and independent thinking and demonstrate mastery of the subject matter. Can be taken in fall or spring semester after advancement to candidacy.

SCM 6990. Continuous Enrollment for Graduate Candidacy Standing. Units: 0

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies
Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SCM 6991. Continuous Enrollment for Graduate Candidacy Standing. Unit: 1

Quarter Prerequisite: Advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SCM 6992. Continuous Enrollment for Graduate Candidacy Standing. Units: 2

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SCM 6993. Continuous Enrollment for Graduate Candidacy Standing. Units: 3

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SCM 6994. Continuous Enrollment for Graduate Candidacy Standing. Units: 4

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SCM 6995. Continuous Enrollment for Graduate Candidacy Standing. Units: 5

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

SCM 6996. Continuous Enrollment for Graduate Candidacy Standing. Units: 6

Quarter Prerequisite: advancement to candidacy and approval of program graduate coordinator or, if an interdisciplinary studies major, consent of the Dean of Graduate Studies

Independent study leading to completion of requirements (other than course work) for the master's degree. To retain classified standing in the master's program, a student must enroll in a Continuous Enrollment for Graduate Candidacy Standing course each quarter until the project or thesis is accepted or the comprehensive examination passed. Students who enroll through the university have full use of all university facilities. See Culminating Experience: Exam, Thesis, or Project in Graduate Degree and Program Requirements section of the Bulletin of Courses. Continuous Enrollment for Graduate Candidacy Standing is a variable unit course, see fee schedule in the Financial Information section of the Bulletin of Courses. Earned units are not degree-applicable nor will they qualify for financial aid.

Theatre Arts (TA)

Courses

TA 1140. Fundamentals of Acting. Units: 3
Foundation training for actors through theatre games, improvisation and exercises for developing expressive freedom, creativity, relaxation and concentration. Fundamentals for creating a role exploring the use of such elements as objectives, given circumstances, character analysis and conflict. Formerly offered as TA 252.

TA 1141. Improvisation. Units: 3
A beginning course in improvisational techniques for the actor and for those who will use drama as an educational tool. May be taken 2 times for up to 6 units. Formerly offered as TA 240.

TA 1160. All the World's A Stage: A Tour of Global Performance. Units: 3
Quarter Prerequisite: satisfaction of the GE written communication (A1) requirement or equivalent
An exploration of plays and performances from around the world and analysis of how they are both products and shapers of the cultures that produced them. Satisfies GE C2/3B, G designation.

TA 1631. Makeup for Stage and Screen. Units: 3
Theory and application of makeup for theatre, television and film. Materials fee required. Formerly TA 131.

TA 2131. Fundamentals of Stage Design. Units: 3
Study of the elements and principles of design as related to theatrical applications and visual analysis of dramatic literature. Materials fee required.

TA 2132. Scenography. Units: 3
Semester Prerequisite: TA 2131. Quarter Prerequisite: TA 235
An introduction to the major disciplines of theatrical design (Scenery, Lighting, Costuming and Sound) as viewed from a synthesis of art and craft. Introduction to the basic processes and skills needed to analyze and communicate concepts in a theatrical design format. Materials fee required. Formerly offered as TA 239.

TA 2133. Stagecraft. Units: 3
Introduction to the theory and practice of scenery and prop construction including the use of tools, materials, techniques and drafting required in execution of designs.

TA 2134. Sound for Stage and Screen. Units: 3
Basic design theories of stage and screen sound, production techniques, instrumentation and control equipment.

TA 2135. Lighting for Stage and Screen. Units: 3
Basic electrical theory of stage lighting, production techniques, instrumentation and control equipment.

TA 2136. Costume Construction. Units: 3
Costume techniques including basic pattern drafting, cutting, fitting and construction.

TA 2612. Oral Interpretation of Literature. Units: 3
Literary and aesthetic analysis of poetry, prose or drama through performance techniques of oral interpretation. Satisfies GE C2/3B.

TA 2621. Festival Practicum I. Unit: 1
Students select and prepare material for acting auditions and technical interviews, both for inter-college competition and professional theatre/film work. Two hours activity. May be repeated for credit. Formerly offered as TA 223.

TA 2622. Festival Practicum II. Units: 2
Remounting and reconfiguring University production for touring to national and international festivals and venues. May be repeated for credit. Formerly offered as TA 225.

TA 2640. Acting for All Majors. Units: 3
Introduction to acting for communication, collaboration, and leadership skills. Satisfies GE C1/3A.

TA 2660. Introduction to Theatre. Units: 3
Introduction to the art of Theatre, including the nature of theatrical presentation and the contributions of the playwright, actor, director, designer, technician and audience to the process of theatre-making. Students will authentically experience this process as production crew or audience members. Satisfies GE C1/3A.

TA 2711. Studies in Dance: Jazz. Units: 2
Quarter Prerequisite: KINE 150F or consent of instructor
Movement study and body conditioning in specific dance styles. May be repeated for credit. No more than 6 units may be used to satisfy graduation requirements. Formerly offered as DAN200A.

TA 2712. Studies in Dance: Modern. Units: 2
Quarter Prerequisite: KINE 150G or consent of instructor
Movement study and body conditioning in specific dance styles. May be repeated for credit. No more than 6 units may be used to satisfy graduation requirements. Formerly DAN 200B.

TA 2713. Studies in Dance: Tap. Units: 2
Quarter Prerequisite: KINE 150H or consent of instructor
Movement study and body conditioning in specific dance styles. May be repeated for credit. No more than 6 units may be used to satisfy graduation requirements. Formerly offered as DAN 200C.

TA 2714. Studies in Dance: Ballet. Units: 2
Movement study and body conditioning in specific dance styles. May be repeated for credit. No more than 6 units may be used to satisfy graduation requirements. Formerly offered as DAN 200D.

TA 3122. Performance Practicum. Units: 2
Students experience role preparation, rehearsal and acting before varied audiences. Open to all students. May be repeated for credit. Formerly offered as TA 320A.

TA 3123. Performance Practicum. Units: 3
Students experience role preparation, rehearsal and acting before a variety of audiences. Open to all students. May be repeated for credit. Formerly offered as TA 320B.

TA 3131. Technical Practicum. Unit: 1
Application of scenic, costume, lighting or audio crafts for a live performance. May be repeated for credit. Formerly offered as TA 321A.

TA 3132. Technical Practicum. Units: 2

Application of scenic, costume, lighting or audio crafts for a live performance. May be repeated for credit. Formerly offered as TA 321B.

TA 3141. The Improvisational Mind. Units: 3

Development of foundational performance skills essential for success in any fast-paced, unpredictable business environment. Students will focus on developing cognitive flexibility, accessing creativity, exploring ensemble-based collaboration, mastering active storytelling, and honing their unique communication tools. Satisfies GE C4/UD-3; DI designation. Course is offered as ENTR 3141 and TA 3141; credit cannot be awarded for both.

TA 3143. Fundamentals of Directing. Units: 3

Semester Prerequisite: TA 1140 and TA 2131. Quarter Prerequisite: TA 235 and TA 252 or consent of instructor

Theory and practices of stage direction including script analysis, staging and management. Formerly offered as TA 346.

TA 3161. Theatre History and Literature I. Units: 3

Quarter Prerequisite: Junior standing or consent of instructor

Exploration of theatre architecture, practices, and literature for the purpose of understanding the major trends in the development of theatre arts. Origins through 1800. Satisfies WI designation.

TA 3162. Theatre History and Literature II. Units: 3

Quarter Prerequisite: Junior standing or consent of instructor

Exploration of theatre architecture, practices, and literature for the purpose of understanding the major trends in the development of theatre arts. 19th Century through contemporary. Satisfies WI designation.

TA 3210. Voice and Movement. Units: 3

Theory and fundamentals of specialized stage movement and vocal techniques for the actor. May be taken 3 times for up to 9 units. Formerly offered as TA 245 and TA 253.

TA 3240. Scene Study. Units: 3

Semester Prerequisite: TA 1140 and TA 1141. Quarter Prerequisite: TA 252

Application of acting techniques through scene study of plays. Formerly offered as TA 351.

TA 3310. Graphic Communication for Theatrical Design. Units: 3

Semester Prerequisite: TA 2131. Quarter Prerequisite: TA 235

An Introduction to principles of communicating design concepts and details by utilizing models, sketches, computer drafting, perspective rendering and hand rendering. Basics of elements of design and history of styles. Materials fee required. Formerly offered as TA 130.

TA 3320. Scenic Design. Units: 3

Semester Prerequisite: TA 2132. Quarter Prerequisite: TA 235 and 239 or consent of instructor

Prerequisites: TA 2132

Advanced principles of scenic design. An exploration of Design for Theatre and other spaces for audience interaction.

TA 3330. Costume Design. Units: 3

Semester Prerequisite: TA 2132. Quarter Prerequisite: TA 233 and 235 or consent of instructor

Advanced Principles of costume design and rendering techniques. Formerly TA 337.

TA 3340. Sound Design. Units: 3

Semester Prerequisite: TA 2132. Quarter Prerequisite: TA 231 and 235 or consent of instructor

Advanced principles of sound design, concepts, and aural research. Formerly offered as TA 333.

TA 3350. Lighting Design. Units: 3

Semester Prerequisite: TA 2132. Quarter Prerequisite: TA 232 and TA 235

An in-depth study of the principles of lighting design, research and concepts. Formerly TA 332.

TA 3410. Theatre in the Classroom. Units: 3

Comprehensive overview of methods of Theatre creation, performance, and production with young children in a public school setting. Includes standards-based approaches to teaching Theatre, cross-curricular applications, and assessment strategies. Two hours seminar and two hours of activity. Formerly TA 479.

TA 3602. Dramatic Analysis and Playwriting for Teachers. Units: 3

Quarter Prerequisite: satisfaction of the GE written communication (A1) requirement

Analysis and Writing. Literary analysis of selected plays with special emphasis on how to write about dramatic literature, including integrated practice in writing for performance. Formerly TA 302B.

TA 3647. Playwriting. Units: 3

Semester Prerequisite: Junior or Senior standing. Quarter Prerequisite: one course from ENG 302A, ENG 302B ,TA 302A, TA 302B; or consent of instructor

Fundamentals of play development, including plot, character, structure, and theme. Classroom exercises will culminate in students creating their own dramatic scenes and short plays. Formerly TA 347.

TA 3711. Dance Techniques: Jazz. Units: 2

Semester Prerequisite: TA 2711 or consent of instructor. Quarter Prerequisite: DAN 200A or equivalent experience and consent of instructor

Complex movement technique and artistic interpretation in specific dance styles. May be repeated for up to 6 units. Formerly DAN 300A.

TA 3712. Dance Techniques: Modern. Units: 2

Semester Prerequisite: TA 2712 or consent of instructor. Quarter Prerequisite: DAN 200B or equivalent experience and consent of instructor

Complex movement technique and artistic interpretation in specific dance styles. May be taken for up to 6 units. Formerly DAN 300B.

TA 3713. Dance Techniques: Tap. Units: 2

Semester Prerequisite: TA 2713 or consent of instructor. Quarter Prerequisite: DAN 200C or equivalent experience and consent of instructor

Complex movement technique and artistic interpretation in specific dance styles. May be taken for up to 6 units. Formerly DAN 300C.

TA 3714. Dance Techniques: Ballet. Units: 2

Semester Prerequisite: TA 2714 or consent of instructor. Quarter Prerequisite: DAN 200D or equivalent experience and consent of instructor

Complex movement technique and artistic interpretation in specific dance styles. May be taken for up to 6 units. Formerly DAN 300D.

TA 3715. Dance Techniques: Musical Theatre. Units: 2

Quarter Prerequisite: DAN 200 or equivalent experience and consent of instructor
Complex movement technique and artistic interpretation in specific dance styles. May be taken for up to 6 units. Formerly DAN 300E.

TA 3720. World Dance Traditions. Units: 2

Study and application of traditional dance forms from throughout the world. Technique and cultural context will be emphasized. May be repeated for credit as topics change. One hour seminar and two hours activity. Formerly offered as DAN 310A.

TA 3730. Dance Notation. Units: 3

Semester Prerequisite: six units of Theater Arts Dance technique class. Quarter Prerequisite: six units of DAN 300 or consent of instructor
Study and application of written notation for the analysis, reading and preservation of dance. One hour seminar and two hours activity. Formerly DAN 355.

TA 3731. Dance History. Units: 3

Chronological study of major styles and personalities in dance. Formerly DAN 360.

TA 4163. Criticism of Plays in Performance. Units: 3

Quarter Prerequisite: TA 302, ENG 306 or consent of instructor
Critical analysis of public theatrical performance with an emphasis on the journalistic review. Textual analysis, artistic perception and aesthetic evaluation of acting, directing and design. Both individual and class attendance at several theatrical performances outside of regular meeting times will be required. Satisfies WI designation.

TA 4170. Theatre Applications/Project Preparation. Units: 3

Semester Prerequisite: Instructor approval
Approaches and tools critical to the preparation and investigation for Capstone Project. Requires instructor approval.

TA 4171. Theatre Arts Capstone. Units: 3

Semester Prerequisite: TA 4170 and instructor approval
Presentation of Capstone Project. Instructor Approval Required. Formerly offered as TA 585.

TA 4241. Styles of Acting. Units: 3

Studies and performance of selected styles in theatre. May be taken for up to 6 units as topics change. Formerly offered as TA 353.

TA 4242. Acting for the Camera. Units: 3

Semester Prerequisite: TA 3240. Quarter Prerequisite: TA 351 or TA 385
Study and application of acting techniques unique to current media. May be taken for up to 6 units. Formerly offered as TA 357.

TA 4320. Scenic Crafts. Units: 3

Theory and application of Scenic Crafts. May be taken again for credit as topics change. Materials fee required. Formerly offered as TA 334.

TA 4330. Costume Crafts. Units: 3

Semester Prerequisite: TA 2131. Quarter Prerequisite: TA 235
Theory and application of a Costume Craft. May be taken again for credit as topics change. Formerly TA 233. Materials fee required.

TA 4340. Lighting Crafts. Units: 3

Semester Prerequisite: TA 2131. Quarter Prerequisite: TA 235
Theory and application of a Lighting Craft. May be taken again for credit as topics change. Formerly TA 232. Materials fee required.

TA 4350. Audio Crafts. Units: 3

Semester Prerequisite: TA 2131. Quarter Prerequisite: TA 235
Theory and application of an Audio craft. Materials fee required. Formerly TA 231.

TA 4410. Drama in Education. Units: 3

Introduction to theories and practices of using drama as a cross-disciplinary teaching tool. Includes developmentally appropriate approaches to the teaching of acting to young people. Two hours seminar and two hours activity.

TA 4420. Touring Practicum. Units: 3

Touring experience including rehearsal and performance before an audience. Open to all students. May be taken again for credit. Formerly offered as 320C.

TA 4430. Puppetry. Units: 3

Overview of puppetry as a fine art and the uses of puppets as interdisciplinary teaching tools. Includes lesson planning, performance techniques, and developmentally appropriate approaches to teaching stagecraft for future classroom teachers. Two hours seminar and two hours activity.

TA 4440. Creative Movement in the Classroom. Units: 3

Dance techniques that emphasize concentration, imagination, body awareness and self-expression and are designed to develop creative leadership for parents, recreational leaders, elementary and secondary teachers. Formerly offered as DAN 481.

TA 4450. Arts in Action: Theatre. Units: 3

Semester Prerequisite: TA 3410. Quarter Prerequisite: TA 481
Applied practice of arts education in the community. Projects will vary based on participants. May be repeated for credit if taken under a different Fine Arts subject (Dance, Visual Art, or Music).

TA 4451. Arts in Action: Dance. Units: 3

Semester Prerequisite: TA 4440. Quarter Prerequisite: DAN 481
Applied practice of arts education in the community. Projects will vary based on participants. May be repeated for credit if taken under a different Fine Arts subject (Theatre, Visual Art, or Music).

TA 4510. Acting in Musical Theatre. Units: 3

Semester Prerequisite: TA 3240. Quarter Prerequisite: TA 351
Concentrated study on performing musical theatre, with an emphasis on voice, dance, and character development. May be taken for up to 6 units. Formerly TA 355.

TA 4515. Singing and Dancing for Musicals. Units: 3

An overview of the specific vocal and physical techniques specific to performers of musical theatre.

TA 4520. Singing for Musicals. Units: 2

Solo and choral singing from the American Musical Theatre canon. Formerly offered as TA 340.

TA 4643. Directing and Devising Performance. Units: 3

Semester Prerequisite: TA 1140 and TA 2131
Advanced studies in play directing and devising new work for performance. Includes developmentally appropriate approaches to directing young people for future classroom teachers.

TA 4661. Dramatic Literature I: Classical to 1800. Units: 3

Development of World Drama: Origins to 1800. Formerly TA 450.

TA 4662. Dramatic Literature II: 19th Century to Contemporary. Units: 3

Development of World Drama: 19th Century to Contemporary. Formerly TA 455.

TA 4663. Dramatic Literature of Identity. Units: 3

Examination of dramatic literature and performances produced by diverse communities to understand how their identities and histories shape the contemporary experience. Satisfies GE C4/UD-3, DI designation. May be taken for up to 9 units as topics change, but only 3 units may be used for GE.

TA 4664. Theatre for Youth: History and Literature. Units: 3

Exploration and analysis of the history and literature of performance for young audiences, from its origins to current trends. Formerly offered as TA 458.

TA 4665. Shakespeare I. Units: 3

Semester Prerequisite: junior or senior standing. Quarter Prerequisite: one course from ENG 301A, ENG 301B, ENG 302A, ENG 302B; or consent of instructor
Comedies and history plays. Formerly TA 475/ENG 475.

TA 4666. Shakespeare II. Units: 3

Semester Prerequisite: junior or senior standing. Quarter Prerequisite: one course from ENG 301A, ENG 301B, ENG 302A, ENG 302B; or consent of instructor
Tragedies and romances. Formerly offered as TA 476/ENG 476.

TA 4750. Choreography. Units: 3

Semester Prerequisite: six units of Theater Arts Dance Technique class. Quarter Prerequisite: six units of DAN 300 or consent of instructor
Study and application of dance composition. May be repeated for credit. One hour seminar and four hours activity. Formerly DAN 450.

TA 5141. Entrepreneurial Improvisation and Creativity. Units: 3

Exploration of improvisation as a tool to frame problems, think creatively, develop compelling presentation skills, and express energy and passion in varied business environments. Course is offered as ENTR 5141 and TA 5141; credit cannot be awarded for both. Department consent required.

TA 5170. Teaching Theatre in Secondary Schools. Units: 3

Advanced studies and application of methods of teaching theatre in secondary schools, including producing work appropriate for and accessible to young people as well as networking with community stakeholders to create a successful theatre program. Includes standards-based unit planning and service learning. Graded ABC/no credit. Consent required.

TA 5440. Advanced Creative Dance Methods. Units: 3

Semester Prerequisite: TA 4440. Quarter Prerequisite: DAN 481
Advanced methods for teaching dance techniques, emphasizing concentration, imagination, body awareness, and self-expression. Course intended for teachers and recreation and community leaders who will plan lessons with the California Visual and Performing Arts Framework and Standards. Requires a minimum six-hour field component. May be repeated fro up to 6 units. Formerly offered as DAN 580.

TA 5751. Internship in Theatre Arts I. Unit: 1

Quarter Prerequisite: consent of internship coordinator
Supervised study in private or public organizations. May be taken for up to 12 units of internship credit. Generally assumes thirty hours of work/study per unit of credit. Formerly TA 575A.

TA 5752. Internship in Theatre Arts II. Units: 2

Quarter Prerequisite: consent of internship coordinator
Supervised study in private or public organizations. May be taken for up to 12 internship units. Generally assumes thirty hours of work/study per unit of credit. Formerly 575B.

TA 5753. Internship in Theatre Arts III. Units: 3

Quarter Prerequisite: consent of internship coordinator
Supervised study in private or public organizations. May be taken for up to 12 internship units. Generally assumes thirty hours of work/study per unit of credit. Formerly 575C.

TA 5754. Internship in Theatre Arts IV. Units: 4

Quarter Prerequisite: consent of internship coordinator
Supervised study in private or public organizations. May be taken for up to 12 internship units. Generally assumes thirty hours of work/study per unit of credit. Formerly 575D.

TA 5755. Internship in Theatre Arts V. Units: 5

Quarter Prerequisite: consent of internship coordinator
Supervised study in private or public organizations. May be taken for up to 12 internship units. Generally assumes thirty hours of work/study per unit of credit. Formerly offered as 575E.

TA 5756. Internship in Theatre Arts VI. Units: 6

Quarter Prerequisite: consent of internship coordinator
Supervised study in private or public organizations. May be taken for up to 12 internship units. Generally assumes thirty hours of work/study per unit of credit. Formerly 575F.

TA 5951. Independent Study I. Unit: 1

Quarter Prerequisite: a minimum overall grade point average of 3
Study and analysis culminating in demonstrated expertise in the areas of performance, direction, design or theatre research. Consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the semester in which the course is to be taken. May be taken for up to 12 units of independent study credit. Formerly offered as TA 555A.

TA 5952. Independent Study II. Units: 2

Quarter Prerequisite: a minimum overall grade point average of 3
Study and analysis culminating in demonstrated expertise in the areas of performance, direction, design or theatre research. Consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the semester in which the course is to be taken. May be taken for up to 12 independent study units. Formerly TA 555B.

TA 5953. Independent Study III. Units: 3

Quarter Prerequisite: a minimum overall grade point average of 3
Study and analysis culminating in demonstrated expertise in the areas of performance, direction, design or theatre research. Consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the semester in which the course is to be taken. May be taken for up to 12 independent study units. Formerly TA 555C.

TA 5954. Independent Study IV. Units: 4

Quarter Prerequisite: a minimum overall grade point average of 3
Study and analysis culminating in demonstrated expertise in the areas of performance, direction, design or theatre research. Consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the semester in which the course is to be taken. May be taken for up to 12 independent study units. Formerly TA 555D.

TA 5955. Independent Study V. Units: 5

Quarter Prerequisite: a minimum overall grade point average of 3
Study and analysis culminating in demonstrated expertise in the areas of performance, direction, design or theatre research. Consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the semester in which the course is to be taken. May be taken for up to 12 independent study units. Formerly TA 555E.

TA 5956. Independent Study VI. Units: 6

Quarter Prerequisite: a minimum overall grade point average of 3
Study and analysis culminating in demonstrated expertise in the areas of performance, direction, design or theatre research. Consent of instructor and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the semester in which the course is to be taken. May be taken for up to 12 independent study units. Formerly TA 555F.

University Studies (USTD)

Courses

USTD 70. Individualized Study Contract. Unit: 1

Designed for the student who needs to work on an independent basis under the direction of a study specialist in order to improve skills such as quantitative reasoning or written communication. May be repeated. Units awarded are not applicable to a baccalaureate degree. Graded credit/no credit. Formerly USTD 27B.

USTD 80. Topics in Advanced Notetaking and Organization. Unit: 1

Quarter Prerequisite: consent of SAIL
Instruction in adaptation of note taking skills across the curriculum with emphasis on editing, organizing and combining notes from text, class, lab, field and library. Organization of content to enhance concentration and memory and improve test taking ability. Units awarded are not applicable to a baccalaureate degree. May be repeated as topics change. Graded credit/no credit. S.A.I.L. (Student Assistance in Learning) Program. Formerly USTD 40.

USTD 1000A. Freshman Learning Community. Unit: 1

Introduction to the university's history and its mission to enhance the intellectual, cultural and personal development of each student. Application of the First-Year Student Success principles, critical thinking, information literacy and integrative learning. Graded A, B, C-/no credit. May be taken only by first time freshman students during their first year of attendance. May be repeated once for a total of 2 units. Formerly USTD 100A.

USTD 1000B. Transfer Student Learning Community. Unit: 1

Introduction to the university's history and its mission to enhance the intellectual, cultural and personal development of each student. Application of the Second-Year Student Success principles, critical thinking skills, information literacy and integrative learning techniques. Graded A, B, C-/no credit. May be taken only by transfer students during their first year of attendance. Formerly USTD 100B.

USTD 2000. Sophomore Learning Community. Unit: 1

Learn to maximize use of university resources, prepare for post-baccalaureate work and facilitate graduation. Explores the subject matter of university success and overcoming the challenges of career and life decision adjustments. May be repeated once for a total of 2 units. Graded A, B, C-/no credit. Formerly USTD 200.

USTD 3000. Academic and Research Experience Learning Community. Units: 0

The Academic and Research Experience Learning Community (ARELC) is designed to provide students with a collaborative and supportive environment to enhance their academic and research based program participation. This course offers a unique opportunity for students to engage in academic experiences and research projects.

USTD 3001. Academic Research & Experience Learning Community. Unit: 1

The Academic Research and Experience Learning Community (ARELC) is designed to provide students with a collaborative and supportive environment to enhance their academic and research skills. This interdisciplinary course offers a unique opportunity for students to engage in research and experiential education towards their degree.

USTD 3002. Academic Research & Experience Learning Community. Units: 2

The Academic Research and Experience Learning Community (ARELC) is designed to provide students with a collaborative and supportive environment to enhance their academic and research skills. This interdisciplinary course offers a unique opportunity for students to engage in research and experiential education towards their degree.

USTD 3003. Academic Research & Experience Learning Community. Units: 3

The Academic Research and Experience Learning Community (ARELC) is designed to provide students with a collaborative and supportive environment to enhance their academic and research skills. This interdisciplinary course offers a unique opportunity for students to engage in research and experiential education towards their degree.

World Languages and Literatures (WLL)

Courses

WLL 1101. Language Study. Units: 3

Introduction to a language not offered as a major or minor. Fundamentals of reading, writing, listening, speaking, pronunciation, grammatical structure, and culture. Designed to develop the ability to use and understand the chosen language. May be taken 10 times for 30 units as topics change.

WLL 1102. Language Study II. Units: 3

Semester Prerequisite: WLL 1101 or consent of instructor
Continuation of language study not offered as a major or minor. Further development of reading, writing, listening, speaking, pronunciation, grammatical structure in a variety of cultural contexts. Designed to develop the ability to use and understand the chosen language. May be taken 10 times for 30 units as topics change.

WLL 1111. Indigenous Language Study 1. Units: 3

The first in a series of four topics courses in Indigenous Languages. Fundamentals of pronunciation, structure and culture designed to develop the ability to use and understand an Indigenous language. May be taken 10 times for 30 units as topics change.

WLL 1112. Indigenous Language Study 2. Units: 3

Semester Prerequisite: WLL 1111 or instructor consent
The second in a series of four topics courses in Indigenous Languages. Study of an Indigenous Language to build linguistic competency at the intermediate level in a cultural context. May be taken 10 times for 30 units as topics change. Satisfies GE C2/3B, DI, G designations.

WLL 2101. Language Study III. Units: 3

Semester Prerequisite: WLL 1102 or consent of instructor
Second year of college level language study not offered as a major or minor. Further development of reading, writing, listening, speaking, pronunciation, grammatical structure in a variety of cultural contexts. Improvement of target language skills through a study of stories, films, media, cultural practices and the arts. Designed to develop the ability to use and understand the chosen language at the Novice High to Intermediate Low Levels. May be taken 10 times for 30 units as topics change.

WLL 2102. Language Study IV. Units: 3

Semester Prerequisite: WLL 2101 or consent of instructor
Second year and second semester of college level language study not offered as a major or minor. Further development of reading, writing, listening, speaking, pronunciation, grammatical structure in a variety of cultural contexts. Improvement of target language skills through a study of stories, films, media, cultural practices and the arts. Designed to develop the ability to use and understand the chosen language at the Intermediate Level. May be taken 10 times for 30 units as topics change.

WLL 2111. Indigenous Language Study 3. Units: 3

Semester Prerequisite: WLL 1112 or instructor consent
The third in a series of four topics courses in Indigenous Languages. Further study of an Indigenous language to develop proficiency in listening, speaking, reading, and writing with a cultural emphasis. Students may repeat as languages vary. My be taken 10 times for 30 units as topics change.

WLL 2112. Indigenous Language Study 4. Units: 3

Semester Prerequisite: WLL 2111 or instructor consent
The fourth in a series of four topics courses in Indigenous Languages. Further study of an Indigenous language to develop proficiency in listening, speaking, reading, and writing with a cultural emphasis. May be taken 10 times for 30 units as topics change.

WLL 3120. Pedagogies for Foreign Language Teaching. Units: 3

Theories and practice of foreign language acquisition and teaching in an English-speaking environment. Focuses on relevant methodological practices and familiarizes prospective foreign language teachers with the Standards for Language Learning from the American Council on the Teaching of Foreign Languages. Offered for World Language majors. Class taught in English. Formerly FLAN 312. Materials fee required.

WLL 3302. World Languages: Writing Center Practicum. Units: 2

Practice strategies to improve writing and use of grammatical structures. Students implement their writing skills by providing supervised and guided tutoring on campus or in the community as a service-learning activity. Department consent required. Graded Credit/No Credit.

WLL 3350. Language Acquisition and Early Field Experience for Future Teachers. Units: 3

Semester Prerequisite: Junior standing or consent of instructor. Quarter Prerequisite: junior standing or consent of instructor
Theories of language acquisition, including supervised observation of the public school classroom. Taught in English for all prospective single-subject teachers in the department. Formerly FLAN 350. Materials fee required.

WLL 3891. Community Service Project. Unit: 1

Semester Prerequisite: consent of department. Quarter Prerequisite: consent of department
Credit for academically-related tasks using world language skills as performed as part of an internship or service-learning project in governmental or social service agencies, or in an educational context. Departmental permission required. Formerly FLAN 399 A-D. Graded credit/no credit.

WLL 3892. Community Service Project. Units: 2

Semester Prerequisite: Department permission required
Credit for academically-related tasks using world language skills as performed as part of an internship or service-learning project in governmental or social service agencies, or in an educational context. Departmental permission required. Formerly FLAN 399 A-D. Graded credit/no credit.

WLL 3893. Community Service Project. Units: 3

Semester Prerequisite: Department permission
Credit for academically-related tasks using world language skills as performed as part of an internship or service-learning project in governmental or social service agencies, or in an educational context. Departmental permission required. Formerly FLAN 399 A-D. Graded credit/no credit.

WLL 3894. Community Service Project. Units: 4

Semester Prerequisite: Department permission required
Credit for academically-related tasks using world language skills as performed as part of an internship or service-learning project in governmental or social service agencies, or in an educational context. Departmental permission required. Formerly FLAN 399 A-D. Graded credit/no credit.

WLL 3920. Great Works, Revolutionary Ideas, and Important Discoveries. Units: 3

In-depth investigation of an author, event or cross-cultural encounter through literature and essays in translation, with a focus on better understanding impact on contemporary societies where the language is spoken. May include historical simulation. Satisfies GE Category C4/UD-3; G, WI designations. May be taken two times for up to six units. Taught in English. Materials fee required.

WLL 3940. Mediterranean Languages and Identities. Units: 3

Selected literary masterpieces and authors from the Mediterranean region. Investigation of different ways in which people find meanings in texts and events, with focus on linguistic, literary and folkloric diversity across different representative languages and their literary traditions. Course taught entirely in English. Satisfies GE C4/UD-3, DI, G designations. Materials fee required.

WLL 3950. Languages & Cultures. Units: 3

An exploration of the intersections between languages and cultures around the globe, including the arts and literature as well as theological, philosophical, and social perspectives. Satisfies GE C4/UD-3, DI, G designations. May be taken three times for up to nine units as topics change; only three units may be used for GE. Taught in English. Materials fee required.

WLL 5551. Independent Study. Unit: 1

Semester Prerequisite: Prerequisites: satisfactory completion of one 3000-level course or higher in the language under study, consent of department, minimum overall grade point average of 3, and department approval of a written proposal for the project (submitted on a standard application, filed in advance of the semester in which the independent study is be taken). Quarter Prerequisite: one 300-level course in the language under study or consent of instructor, a minimum overall grade point average of 3
Prerequisites: satisfactory completion of one 3000-level course or higher in the language under study, consent of department, minimum overall grade point average of 3, and department approval of a written proposal for the project (submitted on a standard application, filed in advance of the semester in which the independent study is be taken). May be repeated for credit. Formerly FLAN 555A
Independent study focused on an author, genre and/or theme.

WLL 5552. Independent Study. Units: 2

Quarter Prerequisite: one 300-level course in the language under study or consent of instructor, a minimum overall grade point average of 3
Independent study of individual writers and genres. Minimum overall grade point average of 3.0, and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. May be repeated for credit. Formerly FLAN 555B.

WLL 5553. Independent Study. Units: 3

Semester Prerequisite: One 300-level course in the language under study or consent of instructor, a minimum overall grade point average of 3. Quarter Prerequisite: One 300-level course in the language under study or consent of instructor, a minimum overall grade point average of 3
Independent study of individual writers and genres. Minimum overall grade point average of 3.0, and departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. May be repeated for credit. Formerly FLAN 555C.

WLL 5554. Independent Study. Units: 4

Semester Prerequisite: One 3000-level course in the language under study or consent of instructor, a minimum overall grade point average of 3. Quarter Prerequisite: One 300-level course in the language under study or consent of instructor, a minimum overall grade point average of 3
Independent study of individual writers and genres. Departmental approval of a written proposal of a project submitted on a standard application filed in advance of the quarter in which the course is to be taken. May be repeated for credit. Department consent required. Formerly FLAN 555D.

WLL 5561. International Experience. Unit: 1

Project based learning with service and exposure to domestic international communities. Variable topics relevant to each language or culture. Project application and consent of department required. May repeat three times for a total of three units. Department consent required.

WLL 5562. International Experience. Units: 2

Project based learning with service and exposure to domestic international communities. Variable topics relevant to each language or culture. Project application and consent of department required. May repeat twice for a total of four units. Department consent required.

WLL 5563. International Experience. Units: 3

Project based learning with service and exposure to domestic international communities. Variable topics relevant to each language or culture. Project application and consent of department required. May repeat twice for a total of six units.

Faculty

The University instituted a program of recognizing outstanding teaching efforts through the Distinguished Teaching Awards. Selections for this honor are based upon recommendations of the Academic Senate committee which follows the procedure of soliciting nominations from students and alumni. Evaluations and recommendations of the nominees are based upon an in-depth review by the committee, including classroom visitations. Recipients of the Distinguished Teaching Awards and their departments are listed among these pages.

Outstanding Professor

Stacey Fraser, Professor of Music

Stacey Fraser was named CSUSB's 2024–25 Outstanding Professor for her excellence in teaching, research/creative activity, and service. She joined the Department of Music in 2007, was promoted to associate professor in 2010, and to full professor in 2014, and also served as director of Opera Theatre and as department chair. Fraser produced more than 25 operas and musical productions featuring CSUSB students and maintained an active performance career with regional companies across Southern California, including engagements with the San Diego Opera and the La Jolla Symphony. Her recent work included a recital at Columbia University that featured contemporary compositions, with particular focus on Asian#American composers such as Chinary Ung and Koji Nakano. Fraser held a B.A. from the University of Toronto, an M.M. from the Manhattan School of Music, and a D.M.A. from the University of California, San Diego.

Golden Apple Award for Teaching Excellence

Jennifer Alford, Associate Professor of Geography & Environmental Studies

Jennifer Alford was named the 2024–25 Golden Apple Award recipient for her exceptional teaching record and extensive contributions to student learning. She joined CSUSB in 2017 and was active in the CSU Water Resources and Policy Initiative and its successor, the CSU Water affinity group. In 2022, she established the CSUSB Institute for Watershed Resiliency and served as its director, and from 2022–23 she served as interim chair of her department. Alford developed and taught 12 courses, supervised numerous independent studies, master's theses, and community#based internships, and led field#based and study abroad learning experiences. She also co#directed the first cross#campus environmental field school in the CSU system and created K–12 water quality and watershed education programs that reached students and educators across the region. Alford held a B.A. in political science from North Carolina State University and an M.A. in liberal studies and a Ph.D. in geography from the University of North Carolina at Greensboro.

Outstanding Service Award

Yan Zhang, Associate Professor of Computer Science and Engineering

Yan Zhang was recognized with the 2024–25 Outstanding Service Award for her extensive and sustained contributions to students, the university and the broader community. She held a Bachelor of Engineering in computer science from Lanzhou Jiaotong University, a Ph.D. in engineering in computer science from Beijing Jiaotong University, and a second Ph.D. in computer science from the University of Regina. Zhang joined CSUSB in 2018 as an assistant professor in the School of Computer Science and Engineering and became an associate professor in 2023. She consistently demonstrated a strong commitment to mentoring and advising, supporting more than 470 undergraduate students and 15 graduate students, mentoring 15 graduate capstones, serving on 26 master's committees, and supervising over 34 internships and independent studies. Her service included co#leading the $2.5 million NSF S#STEM ExCELS project to expand experiential learning in computing, chairing the CSE Scholarship/Honors Committee, participating in curriculum committees, and serving on university#wide committees such as the Scholarship Committee and Graduate Studies Strategic Planning Committee. She also contributed extensively to her profession through international conference leadership, guest editorial work and journal reviewing.

Outstanding Faculty Advisor

Lúa López-Perez, Assistant Professor of Biology

Lúa López#Perez was selected as the 2024–25 Outstanding Faculty Advisor for her exceptional advising practices, compassionate mentorship, and commitment to student success. She held a B.S. in biology from the University of Santiago de Compostela and an M.S. and Ph.D. in biology from the University of A Coruña in Spain. López#Perez began teaching at CSUSB in 2020 and advised students at multiple levels, including undergraduate and graduate research advising in her laboratory, general academic advising for current and incoming students, and outreach#focused advising for prospective students. She also led Upward Bound activities for regional high school students centered on plant biology and herbarium collections. Student and committee evaluations consistently described her as supportive, dedicated and instrumental in helping students develop as scientists, engage in research, and achieve academic milestones such as presenting at the CSU Student Research Competition and the California Botanical Society Graduate Student Symposium.

Outstanding Lecturer

Rachel Estrada, Lecturer of Social Work

Rachel Estrada was selected as the 2024–25 Outstanding Lecturer for her record of exemplary instruction, student engagement, and mentorship. She held a Master of Social Work from Cal State San Bernardino, where she also earned the Diplomate in Clinical Social Work (DCSW), the highest professional distinction in clinical social work, and she was the only member of the CSUSB School of Social Work to hold that credential. She also held a Bachelor of Science in social work from California State Polytechnic University, Pomona. Estrada taught and mentored approximately 400 social work students over 25 years, beginning her CSUSB service as a faculty liaison responsible for evaluating practicum placements across regional agencies. Her student evaluations consistently reflected her effectiveness, compassion, and emphasis on professional standards, self#care, and boundary setting. She remained a resource to graduates through career transitions and the clinical licensure process. Beyond CSUSB, Estrada contributed more than 27 years of service to the Inland Empire through clinical and community#based roles in hospitals, dialysis centers, special education, rehabilitation services, youth programs, and private practice.

Emerita

Sharon Brown-Welty

Mary Fong

Beverly L. Hendricks

Iris Riggs

Aurora Wolfgang

Current Faculty

Jurgita Abromaviciute, 2019
Associate Professor of Sociology
B.A. 2003, Vilnius University, Lithuania
M.A. 2007, East Carolina University
Ph.D. 2018, University of Arizona

Nancy Acevedo-Gil, 2014
Professor of Education
B.A. 2006, University of California, Berkeley
M.A. 2009, San Jose State Univeristy

Ph.D. 2014, University of California, Los Angeles

Helena Addae, 2014
Professor of Management
B.A. 1980,Ph.D. 2003, Concordia University
M.B.A. 1983, McGill University, Montreal

Taofeeq Adebayo, 2022
Assistant Professor of English
B.A. 2013, Obafemi Awolowo University, Ile-Ife
M.A. 2019, Ph.D. 2022 Tulane University, New Orleans

Mark D. Agars, 1999
Professor of Psychology
B.A. 1992, Sienna College
M.S. 1996, Ph.D. 1999, Pennsylvania State University

Danny Sosa Aguilar, 2021
Assistant Professor of Anthroplogy
B.A. 2009, University of California, Berkeley
M.S. 2009, CSU, Northridge
Ph.D. University of California, Berkeley

Jeremy Aikin, 2014
Professor of Mathematics
B.S. 2003, University of California, Riverside
M.S. 2005, Ph.D. 2009, Louisiana State University

Lasisi Ajayi, 2014
Professor of Education, Chair
B.A. 1983, M.S. 1989, Obafemi Awolowo University, Ife
Ph.D. 1996, Literacy-University of Ibadan

Sepideh Alavi, 2020
Assistant Professor of Cyber and Decision Sciences
B.S. 2009, Alzahra University, Iran
M.S. 2011, Amirkabir University of Technology, Iran
Ph.D. 2020, University of Wisconsin-Milwuakee

Erin Alderson, 2019
Lecturer in Psychology
B.A. 2015, California State University, San Bernardino
M.A. 2017, California State University, San Bernardino
Ph.D. 2024, University of California, Riverside

Hani Aldirawi, 2020
Associate Professor of Mathematics
B.A. 2011
M.S. 2015
Ph.D. 2020, University of Illinois at Chicago

Jennifer Alford, 2017
Associate Professor of Geography and Environmental Studies
B.A. 2003, North Carolina State University
M.A. 2005, Ph.D. 2014, University of North Carolina at Greensboro

Ece Algan, 2006
Professor of Communication and Media
B.S. 1994, Istanbul Teknik University
M.A. 1996, Marmara University-Istanbul
Ph.D. 2003, Ohio University

Rachel Allinson, 2006
Lecturer in Social Work
B.A. 1994, University of California, Los Angeles
M.S.W. 1996, Ohio State University

Francis Almendarez, 2022
Assistant Professor of Art and Design
B.F.A. 2013
M.F.A. 2016, Goldsmiths, University of London

Raisa Alvarado, 2022
Assistant Professor of Communication and Media
B.A. 2011, California State University, San Marcos
M.A. 2014, California State University, Long Beach
Ph.D. 2018, University of Denver

Makiko Amaya, 2017
Lecturer in World Languges and Literatures
B.A. 1997, Aoyama Gakuin University
M.A. 2001, California State University - San Bernardino

V Ambati, 2020
Associate Professor of Kinesiology
B.E. 2007, Osmania University, India
M.S. 2009, University of South Florida
Ph.D. 2014, University of Texas at El Paso

Dionisio Amodeo, 2016
Professor of Psychology
B.A. 2006, CSU San Bernardino
M.A. 2009, CSU San Bernardino
Ph.D. 2015, University of Illinois at Chicago

Leslie Amodeo, 2017
Associate Professor of Psychology
B.A. 2008, California State University, San Bernardino
M.A. 2010, California State University, San Bernardino
Ph.D. 2016, University of Illinois

Jennifer L. Andersen, 1996
Professor of English
B.A. 1988, University of California, Los Angeles
M.A. 1991, Ph.D. 1996, Yale University

Annika Anderson, 2015
Professor of Sociology, Chair
B.A. 2006, Pennsylvania State University
M.A. 2010, Washington State University
Ph.D. 2015, Washington State University

Jamal Appiah-kubi, 2025
Assistant Professor of Social Work
B.A. 2012, University of Ghana, Legon
M. Phil. 2015, University of Ghana, Legon
Ph.D. 2022, Ankara Yildirim Beyazit University, Türkiye

Nicole Arkadie, 2022
Assistant Professor of Social Work
B.S. 1999, California State University, Long Beach
M.S.W. 2007, California State University, Long Beach
Ph.D. 2007, Grand Canyon University

Guillermo Aviles-Rodriguez, 2023
Assistant Professor of Theatre Arts
B.F.A. 1999, University of Utah
M.A. 2002, University of California, San Diego
Ph.D. 2021, University of California, Los Angeles

Manijeh Badiee, 2013
Professor of Psychology
B.A. 2002, Austin College
M.A. 2007, Saint Edward's University
Ph.D. 2012, University of Nebraska-Lincoln

Eun-OK Baek, 2002
Professor of Education
B.A. 1987, M.Ed. 1993, Chinju National University, Korea
M.A. 1998, Ph.D. 2002, Indiana University

C. Mo Bahk, 2001
Professor of Communication and Media
B.A. 1980, Yonsei University, Seoul, Korea
M.A. 1983/1990, State University of New York, Albany
Ph.D. 1994, Michigan State University

Melissa Bakeman, 1999
Lecturer in Management
B.A. 1996, M.A. 2001, California State University, San Bernardino

Steve Balady, 2020
Associate Professor of Mathematics
B.S. 2008, M.A. 2011, Ph.D. 2017, University of Maryland College Park

Hector Banos Cervantes, 2023
Assistant Professor of Mathematics
B.S. Universidad Autonoma de Queretaro
M.S., Ph.D. 2019, University of Alaska Fairbanks

Cary Barber, 2019
Associate Professor of History
B.A. 2008, University Of North Carolina - Chapel Hill
M.S. 2010, Ohio State University
Ph.D. 2016, Ohio State University

Armando Barragan Jr., 2015
Associate Professor of Social Work
B.A. 2006, University of California, Los Angeles
M.S.W. 2009, University of California, Berkeley
Ph.D. 2015, University of Southern California

Benjamin Becerra, 2020
Assistant Professor of Cyber and Decision Sciences
B.S. 2006, Cal State University-Polytechnic Pomona
M.S. 2009,University Of California-Riverside
M.P.H. 2011, Loma Linda University
Ph.D. 2015, Loma Linda University

Carmen Beck, 2022
Assistant Professor of Education
B.S. 1995, University of Redlands
M.A. 1997, D.E.D. 2014, Azusa Pacific University

Bailey Benedict, 2021
Assistant Professor of Management
B.A. 2015, University of Wisconsin
M.A. 2021, University of Wisconsin
Ph.D. 2021, Purdue University

Gretchen Bergquist, 2018
Associate Professor of Communication and Media
B.S. 2010, University of Nebraska, Kearney
M.S. 2014, Texas Christian University
Ph.D. 2018, University of Nebraska, Lincoln

Mariam Betlemidze, 2016
Associate Professor of Communication and Media
B.A. 2007, Tbilisi State University Georgia
M.S. 2010, University of Utah-Salt Lake
Ph.D. 2016, University of Utah-Salt Lake

Andreas Beyersdorf, 2016
Professor of Chemistry and Biochemistry
B.A. 2001, Chapman University
M.S. 2007, Ph.D. 2007, UC Irvine

Gisela Bichler, 2000
Professor of Criminology and Criminal Justice
B.A. 1994, Simon Frazier University
M.A. 1996, Rutgers University
Ph.D. 2000, Rutgers University

Tandis Bidgoli, 2022
Associate Professor of Geological Sciences
B.S. 2002, San Francisco State University
M.S. 2005, University of Nevada, Las Vegas
Ph.D. 2014, University of Kansas

Jessica Block-Nerren, 2017
Lecturer of Communication and Media
B.A. 2004, Pitzer College
M.A. 2005, California State University, Fullerton

Brittany Bloodhart, 2019
Associate Professor of Psychology
B.A. 2005, University of Kansas
M.S. 2009, Pennsylvania State University
Ph.D. 2013, The Pennsylvania State University

Dawn Blue, 2016
Professor of Nursing
B.S.N. 2002, CSU San Bernardino
D.N.P. 2015, Brandman University

Nathaniel Bodell, 2019
Associate Professor of Kinesiology
B.S. 2013, California State University, San Bernardino
M.S. 2015, California Baptist University
Ph.D. 2019, University Of Nevada, Las Vegas

Ezekiel Bonillas, 2022
Assistant Professor of Entrepreneurship and Innovation
B.A. 2004, B.A. 2004, M.B.A. 2006, Cal State University-San Bernardino
D.B.A. 2022, Case Western Reserve University

Fabian Borges Herrero, 2015
Professor of Political Science
B.A. 2005, Universidad de Costa Rica
M.A. 2008, Georgetown University
Ph.D. 2014, University of Southern California

Nicole Bournias-Vardiabasis, 1987
Professor of Biology
B.S. 1975, University of California, Irvine
Ph.D. 1978, University of Essex, United Kingdom

Maggie Boyraz, 2018

Professor of Management
B.S. 2001, Silesian University
M.A. 2006, Brooklyn College - University of New York
Ph.D. 2016, Rutgers State University

Stephen Bronack, 2017
Professor of Education
Ph.D. 1998, University of Virginia Main Campus

Haakon Brown, 2009
Professor of Marketing, Chair
B.S. 1995, Columbia University
M.B.A. 2001, Massachusetts Institute of Technology
Ph.D. 2009, Northwestern University

Aaron Brown, 2022
Assistant Professor of Ethnic Studies
M.A. 2019, University Of California, Riverside
Ph.D. 2022, University Of California, Riverside

Nicolas Brunet, 2022
Professor of Psychology
B.A. 2001, Universidad de Las Americas, Mexico
Ph.D. 2006, Florida State University

Terese Burch, 2017
Professor of Nursing
B.S.N. 1974, Loyola University
M.S. 1977, Rush University
Ph.D. 1989, University of Illinois at Chicago

Jason Burke, 2018
Associate Professor of Chemistry and Biochemistry
B.S. 2004, University of Oregon
Ph.D. 2012, University of California, Santa Cruz

Sidney Burks, 2014
Lecturer in Education
B.A. 1970, M.A. 1972, San Diego State University

Cesar Caballero
University Librarian, Dean, Library
B.B.A. 1972, University of Texas, El Paso
MLS 1974, University of Texas, Austin

Sara Callori, 2015
Professor of Physics and Astronomy
B.A. 2007, New York University
M.A. 2009, Ph.D. 2013, Suny at Stony Brook

Diana Camilo, 2021
Associate Professor of Special Education, Rehabilitation and Counseling
B.S. 2000, University of Rochester
M.A. 2001 University of Rochester
Ed.D. 2011, Argosy University, Chicago

Jesus Canelon Herrera, 2018
Associate Professor of Cyber and Decision Sciences
B.S. 1995, University of Centroccidental
M.S. 1998, University of Centroccidental
Ph.D. 2011, Claremont Graduate University

Rodrigo Cardenas Mutis, 2023
Assistant Professor of Accounting and Finance
Ph.D. 2023

Jennifer Carhart, 2024
Assistant Professor of Education
B.A., Cal State University-Fullerton
M.S. 2017, Ph.D. 2024, Azusa Pacific University

David Carlson, 2001
Professor of English
B.A. 1992, Colgate University
M.A. 1994, Ph.D. 2000, Indiana University

Megan Carroll, 2019
Associate Professor of Sociology
B.A. 2008, University of North Texas
M.A. 2012, University of Southern California
Ph.D. 2019, University of Southern California

Elizabeth Castillo, 2023
Assistant Professor of Management
B.A. 1985, M.A. 2010, Ph.D. 2016, University of San Diego

Kerry Cato, 2016
Professor of Geological Sciences
B.S. 1982, Texas Tech University
M.S. 1985, Ph.D. 1991, Texas AM University

Alexandra Cavallaro, 2015
Associate Professor of English
B.A. 2008, Kutztown University Of Pennsylvania
M.A. 2009, Ph.D. 2015, University Of Illinois, Urbana

Priyanjali Chakraborty, 2025
Assistant Professor of Social Work
B.A. 2014, St. Xavier's College, Kolkata
M.A. 2016, Tata Institute of Social Sciences, Hyderabad
Ph.D. 2025, University of Texas, Arlington

Michael Y. Chao, 2005
Professor of Biology
B.S. 1993, National Taiwan University
Ph.D. 2001, University of Texas Southwestern Medical Center

Thomas Chapman, 2024
Assistant Professor of Cyber and Decision Sciences
Ph.D. 2018, University Of Mississippi Main Campus

Shawnte Chastain, 2022
Professor of Nursing
B.S. 2003, Ball State University
M.S. 2007, Ball State University
Ph.D. 2013, Ball State University

Zhaojing Chen, 2017
Associate Professor of Kinesiology
B.S. 2011, Shanghai University of Sport
M.A. 2013, University of Oklahoma
Ph.D. 2017, University of Oklahoma

Michael Chen, 2018
Associate Professor of Education
Ph.D. 1990, University of Minnesota-Twin Cities

Keting Chen, 2022
Assistant Professor of Child, Adolescent, and Family Studies

B.ED. 2012, M.Ed. 2015, East China Normal University, China
Ph.D. 2022, University of Nebraska-Lincoln

Ying Cheng, 2018
Associate Professor of Management
B.A. 2011, Southwest Jiaotong University
M.A. 2013, Michigan State University
Ph.D. 2018, Michigan State University

Steven Childs, 2016
Associate Professor of Political Science
B.A. 2005, University of Southern California
M.A. 2009, Claremont Graduate University
Ph.D. 2011, Claremont Graduate University

Rueyling Chuang, 2000
Professor of Communication and Media, Dean
B.A. 1987, Tamkang University, Taiwan
M.S. 1992, California State University, Hayward
Ph.D. 1996, Ohio University, Athens

Golge Citak Seferoglu, 2020
Professor of Education
M.A. 1994, M.Ed. 1995, D.Ed. 1998, Columbia University

John P. Clapper, 2002
Professor of Psychology
B.A. 1983, State University of New York at Buffalo
Ph.D. 1988, Stanford University

James Clover, 2017
Lecturer in Kinesiology
B.S. 1980, Ohio University Main Campus
M.Ed. 1989, Azusa Pacific University

Liliana Conlisk-Gallegos, 2015
Professor of Communication and Media
M.A. 2008, California State University, San Diego
Ph.D. 2013, University of California, Santa Barbara

Meredith Conroy, 2013
Professor of Political Science
B.A. 2005, Whittier College
M.A. 2007, Purdue University
Ph.D. 2010, University of California, Santa Barbara

Heidy Contreras, 2022
Assistant Professor of Biology
B.A. 2002, M.S. 2022, Cal State University-San Bernardino
Ph.D. 2010, University Of California-Irvine

Enrique Contreras, 2024
Assistant Professor of Chemistry and Biochemistry
M.S. 2015, Ph.D. 2019, National Autonomous University of Mexico

Esteban Cordoba De La Barrera, 2019
Associate Professor of World Languages and Literatures
B.A. 2008, University Of California, Los Angeles
M.A. 2012, University Of California, Los Angeles
Ph.D. 2017, University Of California, Los Angeles

Thomas Corrigan, 2012
Professor of Communication and Media
B.A. 2005, M.S. 2007, Florida State University
Ph.D. 2012, Pennsylvania State University

Anthony Coulson, 2001
Professor of Cyber Decision Sciences
B.A. 1992, M.B.A. 1993, California State University, San Bernardino
Ph.D. 2002, Claremont Graduate School

Sheri Coulson, 2022
Lecturer in Psychology
B.A. 1993, California State University, San Bernardino
M.S. 1995, 2019, 2021, California State University, San Bernardino
Ph.D. Claremont Graduate University

Kimberly R. Cousins, 1991
Professor of Chemistry and Biochemistry
B.S. 1984, Duke University
Ph.D. 1991, University of Texas, Austin

Jacqueline Coyle-Shapiro, 2019
Professor of Management
B.A. 1984, University College Dublin
M.B.A. 1989, University College Dublin
Ph.D. 1996, London School of Economics

Cynthia A. Crawford, 1996
Professor of Psychology
B.A. 1985, Washington University
M.A. 1989, Ph.D. 1992, University of Kentucky

Kaitlyn Creasy, 2019
Associate Professor of Philosophy, Interim Chair
B.A. 2010, New York University
Ph.D. 2017, University of New Mexico

Matteo Crismani, 2020
Associate Professor of Physics and Astronomy
B.S. 2012, University of California, Santa Cruz
Ph.D. 2017, University of Colorado, Boulder

Nicole Dabbs, 2013
Professor of Kinesiology, Chair
B.S. 2008, M.S. 2010, California State University, Fullerton
Ph.D. 2013, University of Mississippi - Main Campus

Carmen Dagostino, 2007
Professor of World Languages and Literatures
M.A. 2004, University of California, Santa Barbara
Ph.D. 2001, University of Zurich, Switzerland

Khalil Dajani, 2021
Professor of Computer Science and Engineering, Director
B.S. 1988, M.S 1991, University of Illinois
Ph.D. 2000, University of Toledo

Justine Darrigo-Patrick, 2016
Associate Professor of Education
B.A. 2006, Biola University
M.A. 2010, Pepperdine University
Ph.D. 2014, Loma Linda University

Andrea Daventry, 2023
Assistant Professor of Philosophy
B.A. 2011, University of Central Florida
M.A. 2013, University of Florida

Ph.D. 2020, University of Massachusetts Amherst

Matthew Davidson, 2001
Professor of Philosophy, Chair
B.A. 1994, University of Illinois
M.A. 1997, University of Notre Dame
Ph.D. 2000, University of Wisconsin

Jane Chin Davidson, 2013
Professor of Art and Design
B.A. 2001, Reed College
Ph.D. 2007, University of Manchester

John V. Decemvirale, 2023
Assistant Professor of Art and Design
Ph.D. 2021, University Of California-Santa Barbara

Matthew Des Lauriers, 2020
Professor of Anthropology
B.A. 1999, California State University, Bakersfield
M.A. 2001, Ph.D. 2005, University of California, Riverside

Ismael Diaz, 2015
Associate Professor of Psychology
B.A. 2008, University of California, Riverside
M.S. 2011, Ph.D. 2013, Texas AM, College Station

Bibiana Diaz-Rodriguez, 2012
Professor of World Languages and Literatures
B.S. 1998, Universidad de la Saban
M.A. 2005, California State University, Long Beach
Ph.D. 2014, University of California, Irvine

Yasemin Dildar, 2016
Associate Professor of Economics
B.A. 2007, M.S. 2009, Middle East Technical University
Ph.D. 2015, University of Massachusetts

Jeremy Dodsworth, 2014
Professor of Biology, Chair
B.S. 2000, University of Wisconsin, Madison
Ph.D. 2006, University of Washington

John R. Dorocak, 1991
Professor of Accounting and Finance
A.B. 1973, Xavier University, Cincinnati, Ohio
J.D. 1977, Case Western Reserve University, Cleveland, Ohio
D.B.A. 1990, University of Florida

Kelly Dortch, 2017
Lecturer in Liberal Studies
M.F.A. 2014, California State University - San Bernardino

Dany Doueiri, 2006
Professor of World Languages and Literatures, Coordinator
B.S. 1989, California Polytechnic University
M.S. 1991, University of California, Davis
Ph.D. 1996, University of California, Los Angeles

Rafael Duffie, 2024
Assistant Professor of Art and Design
B.S. Art Institute of California, Los Angeles
M.F.A. 2020, Academy of Art University, San Francisco

Corey M. Dunn, 2006
Professor of Mathematics
B.S. 2000, Pacific Lutheran University
M.S. 2002, Ph.D. 2006, University of Oregon

Sarah Dunn, 2020
Professor of Kinesiology
B.S. 1998, Pepperdine University
M.S. 2004, University of Sydney
Ph.D. 2009, University of New South Wales

Ahmed Elnoshokaty, 2022
Assistant Professor of Cyber and Decision Sciences
B.S. 2007, Alexandria University, Egypt
M.B.A. 2010, Arab Academy for Science and Technology, Egypt
M.S. 2016, Ph.D. 2018, Dakota State University

Gabriel Elvin, 2022
Assistant Professor of Mathematics
B.S. 2017, University of California-Los Angeles
M.S. 2019, Ph.D. 2022, University of California-Riverside

Guillermo Escalante, 2014
Professor of Kinesiology, Associate Dean
B.S. 1997, M.B.A. 1999, University of LaVerne, CA
D.S.C 2012, Rocky Mountain University of Health Professions

Karen Escalante, 2019
Associate Professor of Education
B.A. 1998, California State University, Northridge
M.A. 2008, Concordia University, Irvine
Ph.D. 2016, University of Southern California

Alicia Escobedo, 2024
Assistant Professor of English
Ph.D. 2024, University of San Diego

Christine N. Famega, 2002
Professor of Criminology and Criminal Justice, Director
B.A. 1993, University of Manitoba
M.A. 1996, Minot State University
Ph.D. 2003, University of Cincinnati

Kamvar Farahbod, 1991
Professor of Cyber and Decision Sciences
B.A. 1976, University of Tehran
M.S. 1979, Ph.D. 1986, Oklahoma State University

Hajrudin Fejzic, 1994
Professor of Mathematics
B.S. 1987, University of Sarajevo, Sarajevo
Ph.D. 1992, Michigan State University

James V. Fenelon, 1999
Professor of Sociology
B.A. 1978, Loyola Marymount University
M.A. 1981, M.A. 1983, School of International Training
Ph.D. 1995, Northwestern University

Miriam Fernandez, 2018
Associate Professor of English
B.A. 2007, University of California-Los Angeles
M.A. 2013, California State University, Fresno
Ph.D. 2018, Washington State University

Arturo Fernández-Gilbert, 2001

Professor of World Languages and Literatures
B.A. 1988, M.A. 1991, Universidad Complutense de Madrid
Ph.D. 2001, University of New Mexico, Albuquerque

Antony Field, 2011
Associate Professor of Political Science
B.A. 2000, University of Hull, England
M.S. 2002, Missouri State University
Ph.D. 2010, University of Warwick

Patrick Flaherty, 2015
Lecturer in Management
MBA 1985, California State University, San Bernardino

Warren Forbes, 2023
Assistant Professor of Kinesiology
B.S. 2015, California State University, Fullerton
M.S. 2018, California State University, Fullerton
Ph.D. 2023, University of Nevada, Las Vegas

Stacy Forcino, 2017
Associate Professor of Psychology
B.A. 2003, University of California, Los Angeles
M.S. 2008, Ph.D. 2010, Idaho State University

Catherine Stacey Fraser, 2007
Professor of Music
B.M. 1994, University of Toronto
M.M. 1996, Manhattan School of Music
D.M.A. 2003, University of California, San Diego

Marc Fudge, 2011
Professor of Education
B.A. 1992, Howard University
M.P.A. 1999, Fairleigh Dickinson University
Ph.D. 2011, Rutgers University

Shuryo Fujita, 2016
Associate Professor of Criminology and Criminal Justice
B.S. 2000, Southeast Missouri State University
M.A. 2003, California State University, San Bernardino
Ph.D. 2011, Rutgers-State University of New Jersey

Jordan Fullam, 2016
Professor of Education
B.A. 2006, Montclair State University
M.A. 2007, University of Chicago
Ph.D. 2016, New York University

Carlos Galan Lopez, 2024
Assistant Professor of Education
B.A. 2013, University of California, Los Angeles
M.Ed. 2018, University of Southern California
Ph.D. 2023, University of California, Riverside

Michelle Gallo, 2025
Assistant Professor of Education
M.A. 2006, California State University,Los Angeles
D.Ed. 2025, National University

Martim Galvão, 2022
Assistant Professor of Music
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Assistant Professor of Art and Design
Ph.D. 2017, University of Arizona

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B.A. 1993, Florida State University
M.S. 2004, Montana State University
Ph.D. 2009, Arizona State University

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Professor of Nursing
B.S.N. 2000, Peking University, China
Ph.D. 2008, University of Missouri-Columbia

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B.A. California State University, Long Beach
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Assistant Professor of Biology
B.S. 2010, California State Polytechnic University, Pomona
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Professor of Political Science, Chair
B.A. 1988, California State University, San Bernardino
M.A. 1991, Ph.D. 1994, Michigan State University

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Professor of Chemistry and Biochemistry
B.S. 1988, Anhui Normal University
M.S. 1993, University of Science, China
Ph.D. 2002, University of Missouri

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Professor of Management
B.A. 2009, Shandong Normal University
M.A. 2014, University of Houston
Ph.D. 2016, University of Houston

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Associate Professor of Computer Science and Engineering
B.E. 2000, Lanzhou Jiaotong University
Ph.D. 2011, Beijing Jiaotong University
Ph.D. 2018, University of Regina, Canada

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Associate Professor of Music
B.M. 2010, New England Conservatory of Music
M.F.A. 2012, University of California, Irvine
Ph.D. 2018, University of California, San Diego

Emeriti

Richard T. Ackley
Professor, Political Science. Emeritus, 1990

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Associate Professor, Accounting. Emeritus, 2002

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Russell J. Barber
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Professor, History. Emeritus, 2002

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Joe Bas
Professor, Management. Emeritus, 2010

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Professor, Accounting. Emeritus, 2023

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Professor, MBA Program. Emeritus, 2023

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Professor, Accounting. Emeritus, 2001

Jacques Benzakein
Professor, World Languages. Emeritus, 2006

Frances F. Berdan
Professor, Anthropology. Emeritus, 2010

Cynthia Bird
Professor, Accounting. Emeritus, 2004

Robert A. Blackey
Professor, History. Emeritus, 2013

Marty Bloomberg
Librarian, Emeritus, 1994

Andrew Bodman
Professor, Geography. Emeritus, 2018

Sarah Boeh
Associate Professor, Kinesiology. Emeritus, 2010

Mike Boorom
Professor, Marketing. Emeritus, 2000

Edward J. Bostley
Professor, Music. Emeritus, 2003

David Bourquin
Librarian, Library. Emeritus, 2004

Karen Bowerman
Emeritus, 2011

Cheryl Brandt
Professor, Nursing. Emeritus, 2022

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Professor, Teacher Education and Foundations.

Klaus Brasch
Professor, Biology. Emeritus, 2006

Susan J. Brotherton
Professor, Education. Emeritus, 2013

James Brown
Professor, English. Emeritus, 2017

Herbert K. Brunkhorst
Education. Emeritus, 2012

Bonnie Brunkhorst
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Ruth Burke
Associate Professor, World Languages. Emeritus, 2017

B. Jill Buroker
Professor, Philosophy. Emeritus, 2014

Katharine Busch
Associate Professor, Education. Emeritus, 1998

Renate Caine
Professor, Education. Emeritus, 2011

B. Robert Carlson
Dean, Emeritus, 2011

Sybil Carrere
Associate Professor, Psychology. Emeritus, 2012

John S. Chaney
Professor, Management. Emeritus, 2003

Janet C. Chang
Professor, Social Work. Emeritus, 2019

Otto Chang
Professor, Public Administration. Emeritus, 2004

Ralph James Charkins
Professor, Economics. Emeritus, 2012

Joseph D. Chavez
Professor, Mathematics.

David V. Chavez
Professor, Psychology. Emeritus, 2023

Rong Chen
Professor, English. Emeritus, 2019

Zeng-yin Chen
Professor, Sociology.

Dorothy C. Chen-Maynard
Professor, Health Science. Emeritus, 2025

Yuchin Chien
Professor, Psychology. Emeritus, 2020

C. Charles Christie
Professor, Public Administration. Emeritus, 2004

Kim R. Clark
Professor, Health Science. Emeritus, 2014

Mark T. Clark
Professor, Political Science.

J. Milton Clark
English. Emeritus, 2016

Michael Clarke
Professor, Public Administration. Emeritus, 2006

Breena Coates
Professor, Management. Emeritus, 2017

Ted Coleman
Professor, Health Science. Emeritus, 2020

Frances Coles
Professor, Criminal Justice. Emeritus, 2007

Kimberly Collins
Professor, Public Administration. Emeritus, 2025

Kurt Collins
Professor, Art. Emeritus, 2025

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Professor, Computer Science. Emeritus, 2015

Leo P. Connolly
Professor, Physics. Emeritus, 2010

Margaret H. Cooney
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Professor, World Languages. Emeritus, 2019

Gloria A. Cowan
Professor, Psychology. Emeritus, 2002

John H. Craig
Professor, Chemistry. Emeritus, 2005

Robert Cramer
Professor, Psychology. Emeritus, 2011

Samuel M. Crowell
Professor, Education. Emeritus, 2011

Susan Daniels
Professor , Teacher Education and Foundations. Emeritus, 2015

Thomas D. Davis
Professor, Social Work. Emeritus, 2022

David L. Decker
Professor, Sociology. Emeritus, 2005

Juan Delgado
Professor, English. Emeritus, 2017

Foad Derakhshan
Professor, Management. Emeritus, 2015

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Professor, Education. Emeritus, 1991

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Professor, Physics. Emeritus, 2022

Margaret S. Doane
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Professor, Nursing. Emeritus, 2017

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Professor, Education. Emeritus, 1991

Leo G. Doyle
Professor, Art. Emeritus, 1971

Donald A. Drost
Professor, Management. Emeritus, 2014

Harold Dyck
Professor, Information and Decision Sciences. Emeritus, 2017

Richard Eberst
Professor, Health Science. Emeritus, 2004

Carolyn R. Eggleston
Professor, Special Education, Rehabilitation and Counseling. Emeritus, 2017

Stuart Ellins
Professor, Psychology. Emeritus, 2004

Edward J. Erler
Professor of Political Science, Political Science. Emeritus, 2004

Kathryn Ervin
Professor, Theatre Arts. Emeritus, 2018

James Estes
Professor, Accounting.

Daniel F. Fahey
Professor, Health Science. Emeritus, 2012

Bertram Fairchild, Jr.
Professor, English. Emeritus, 2005

Louis A. Fernández
Professor, Geological Sciences. Emeritus, 2009

James A. Ferrari
Professor, Biology. Emeritus, 2020

Lanny B. Fields
Professor, History. Emeritus, 2004

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Professor, Education. Emeritus, 2022

Geraldine Fike
Associate Professor, Nursing. Emeritus, 2020

Loren Filbeck
Professor, Music. Emeritus, 2004

Susan M. Finsen
Professor, Philosophy. Emeritus, 2009

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Professor, Mathematics. Emeritus, 2021

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Professor, Social Work. Emeritus, 2000

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Professor, Mathematics. Emeritus, 2015

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Jeffrey D. Hackel
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Management. Emeritus, 2011

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Professor, Social Work. Emeritus, 1992

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Professor, Education. Emeritus, 1983

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Charles D. Hoffman
Professor, Psychology. Emeritus, 2008

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Dorothy Johnson
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Professor, Philosophy. Emeritus, 1994

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Professor, Child, Adolescent, Family Studies. Emeritus, 2017

Julius D. Kaplan
Professor, Art. Emeritus, 2003

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Professor, Accounting. Emeritus, 2001

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Professor, Economics. Emeritus, 2016

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Professor, Education. Emeritus, 2011

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Professor, Management. Emeritus, 2000

Michael Lewin
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Richard Lillie
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Professor, Health Science. Emeritus, 2006

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Professor, Sociology. Emeritus, 2015

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Professor, Theatre Arts. Emeritus, 2008

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Professor, Biology. Emeritus, 1994

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Professor, Chemistry. Emeritus, 2005

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Professor, Kinesiology. Emeritus, 2004

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Professor, Sociology. Emeritus, 2020

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Professor, Public Administration. Emeritus, 2006

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Clark Mayo
Professor, English. Emeritus, 2001

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Professor, History. Emeritus, 2002

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Rosemary McCaslin
Professor, Social Work. Emeritus, 2015

Sanders McDougall
Professor, Psychology.

Theodore R. McDowell
Professor, Geography. Emeritus, 2008

Larry E. McFatter
Professor, Music. Emeritus, 2010

Susan J. McGee-Stehsel
Assistant Professor, Nursing. Emeritus, 2016

George McGinnis
Professor, Art. Emeritus, 2010

Thomas McGovern
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Mary L. McGregor
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Patrick McInturff
Professor, Management. Emeritus, 2010

Connie McReynolds
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Norman Meek
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Susan Meisenhelder
Professor, English. Emeritus, 2006

Thomas Meisenhelder
Professor, Sociology. Emeritus, 2004

Josephine G. Mendoza
Professor, Computer Science. Emeritus, 2018

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Professor, Accounting. Emeritus, 2003

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Professor, Nursing. Emeritus, 2010

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Professor, Psychology. Emeritus, 1988

Thomas E. Moody
Associate Professor, Philosophy. Emeritus, 2012

Teresa Morris
Social Work. Emeritus, 2013

Bernhardt L. Mortensen
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Professor, Mathematics. Emeritus, 2012

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Professor, English. Emeritus, 2006

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Professor, Theatre Arts. Emeritus, 2015

Stuart M. Persell
Professor, History. Emeritus, 2002

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Professor, Economics. Emeritus, 2016

James C. Pierson
Professor, Anthropology. Emeritus, 2005

Renee Pigeon
Professor, English. Emeritus, 2019

Bonnie J. Piller
Associate Professor, Education. Emeritus, 2012

David Polcyn
Professor, Biology. Emeritus, 2020

Shelly Pope
Student Health Center. Emeritus, 2018

Lee Porter
Dean, Extended Education. Emeritus, 1998

Chetan Prakash
Professor, Mathematics. Emeritus, 2013

Gregory L. Price
Professor, Kinesiology. Emeritus, 2009

Reginald Price
Professor, Kinesiology. Emeritus, 2005

Jerrold Pritchard
Professor, Music. Emeritus, 2004

Thomas E. Provenzano
Professor, Theatre Arts. Emeritus, 2020

Johnnie Ann Ralph
Emeritus, 2007

Nabil Y. Razzouk
Professor, Marketing. Emeritus, 2011

Paul A. Renteln
Professor, Physics. Emeritus, 2020

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Professor, Management. Emeritus, 2014

Jacqueline R. Rhodes
Professor, English. Emeritus, 2017

Robert B. Ricco
Professor, Psychology. Emeritus, 2020

David M. Riefer
Professor, Psychology. Emeritus, 2014

Cheryl A. Riggs
Professor, History. Emeritus, 2013

Matt L. Riggs
Professor, Psychology. Emeritus, 2017

Dan C. Rinne
Professor, Mathematics. Emeritus, 2014

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Professor, Kinesiology. Emeritus, 2021

Peter Robertshaw
Professor, Philosophy. Emeritus, 2017

James Rogers
Professor, Management. Emeritus, 2001

Lawrence Rose
Professor, Accounting.

Nancy E. Rose
Professor, Economics. Emeritus, 2010

Richard Rowland
Professor, Geography. Emeritus, 2007

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Professor, Philosophy.

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Professor, Theatre Arts. Emeritus, 1997

Treadwell Ruml, II
Professor, English. Emeritus, 2016

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Professor, Management. Emeritus, 2007

Judith M. Rymer
Professor, Education. Emeritus, 2002

Ralph Salmi
Professor, Political Science. Emeritus, 2007

Arthur Saltzman
Professor, Marketing. Emeritus, 2000

Ruth A. Sandlin
Professor, Education. Emeritus, 2012

Rowena Santiago
Professor, Education. Emeritus, 2011

Pedro Santoni
Professor, History. Emeritus, 2019

John Sarli
Professor, Mathematics. Emeritus, 2015

Christine Schalow
Professor, Management. Emeritus, 2007

David Schalow
Professor, Accounting. Emeritus, 2007

Ed Schneiderhan
Student Services Professional, Psychology. Emeritus, 2005

Donna L. Schnorr
Professor, Educational Leadership and Technology. Emeritus, 2019

Kent Schofield
Professor, History. Emeritus, 2001

Pamela J. Schram
Professor, Criminal Justice. Emeritus, 2021

Peter R. Schroeder
Professor, English. Emeritus, 2003

Winifred Scott
Associate Professor, Accounting. Emeritus, 2024

John Scribner
Professor, Accounting. Emeritus, 2004

Dale Sechrest
Professor, Criminal Justice. Emeritus, 2010

Victoria A. Seitz
Professor, Marketing. Emeritus, 2022

Robert Senour
Professor, Education. Emeritus, 2000

Billie P. Sessions
Professor, Art. Emeritus, 2008

Hossein Shalchi
Professor, Accounting. Emeritus, 2010

Lisa Shamansky
Professor, Chemistry. Emeritus, 2019

Gary Sherwin
Associate Professor, Education. Emeritus, 2010

David Shichor
Professor, Criminal Justice. Emeritus, 1997

Herbert P. Shon
Assistant Professor, Social Work. Emeritus, 2025

Anthony Silard
Associate Professor, Public Administration. Emeritus, 2021

A.I. Clifford Singh
Professor, Kinesiology. Emeritus, 2010

Barbara Sirotnik
Professor, Information and Decision Sciences. Emeritus, 2019

Mary Jo Skillings
Professor, Education. Emeritus, 2010

John Skillman
Professor, Biology. Emeritus, 2021

Alan L. Smith
Professor, Geological Sciences. Emeritus, 2015

Laurie Smith
Professor, Social Work. Emeritus, 2021

Wendy Smith
Professor, English. Emeritus, 2016

Sue A. Spitzer
Associate Professor, Education. Emeritus, 2013

Geraldine B. Stahly
Professor, Psychology. Emeritus, 2013

Charles S. Stanton
Professor, Mathematics.

Gordon E. Stanton
Professor, Education. Emeritus, 1988

Helena Villacres Stanton
Associate Professor, Education. Emeritus, 1990

Robert G. Stein
Professor, Mathematics. Emeritus, 2004

Deborah E. Stine
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David Stine
Professor, Education. Emeritus, 2001

Darleen K. Stoner
Professor, Education. Emeritus, 2008

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Professor, Special Education, Rehabilitation and Counseling. Emeritus, 2014

Dolores Tanno
Professor, Communication Media. Emeritus, 2000

Mary Texeira
Professor, Sociology. Emeritus, 2017

Edward C. Teyber
Professor, Psychology. Emeritus, 2013

James D. Thomas
Professor, Political Science. Emeritus, 1990

Jeffrey M. Thompson
Professor, Biology. Emeritus, 2016

Elton N. Thompson
Professor, Education. Emeritus, 1983

Kenneth Thygerson
Professor, Accounting. Emeritus, 2000

John Tibbals
Librarian, Emeritus, 1999

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Mayo Toruño
Professor, Economics. Emeritus, 2017

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Michael Trubnick
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David A. Turner
Professor, Computer Science. Emeritus, 2018

Joseph Turpin
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Professor, Sociology. Emeritus, 2017

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Professor, Accounting. Emeritus, 2013

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Professor, Mathematics. Emeritus, 2020

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Professor, Mathematics. Emeritus, 2020

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Steven R. Wagner
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William Warehall
Professor, Art. Emeritus, 1999

Del LaVerne Watson
Professor, Nursing. Emeritus, 1989

Brian Watts
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Peter D. Williams
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Ruth Wilson
Professor, Biology. Emeritus, 2001

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Janet Woerner
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Alvin Wolf
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Clifford Young
Professor, Public Administration. Emeritus, 2011

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Tong L. Yu
Professor, Computer Science. Emeritus, 2019

Kay Zemoudeh
Professor, Computer Science. Emeritus, 2019

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Librarian, Emeritus, 2016

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Associate Professor, Nursing. Emeritus, 1994

Special Appointments

Kelly Campbell, 2008
Professor of Psychology
B.A. 2000, M.A. 2003, University of British Columbia
Ph.D. 2008, University of Georgia

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Professor of Sociology
B.S. 1992, George Washington University
M.A. 1996, University of California, Irvine
Ph.D. 2002, University of California, Irvine

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- Accounting, Minor (p. 393)
- Adapted Physical Education Added Authorization Credential (p. 458)
- Administration, BA (p. 383) (Program Codes: ACCT, BSAN, ENTR, FIN, FINPL, HOSM, HRMG, ISEC, INST, INSB, MNGT, MKTG, PA, RLST, SPEN, SCM)
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- Applied Physics, Minor (p. 294)
- Arabic, Certificate (p. 224)f
- Arabic, Minor (p. 221)
- Arabic Language, Literature, & Culture, BA (p. 218) (Program Code: ARAB)
- Archaeology, Certificate (p. 321)
- Art, BA (p. 160) (Program Codes: ASTA, AAED)
- Art, BFA (p. 163) (Program Code: ART)
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