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.

Requirements (60-67 units)

Total units required for graduation: 120

Requirements for the B.A. in Computer Systems

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 2720	Discrete Mathematics	3		
MATH 2265	Statistics with Applications	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 choser	from CSE courses numbered 3000 and above.	9		
Concentration (18-25)				

Concentrations (18-25 units)

General Interdisciplinary Concentration (18 units)

Students must satisfy the requirements of one of the concentrations 18-25

(Program Code: CSGI)

Total Units

Total Units	18
Computer Science and Engineering.	
other cohesive program of study; subject to approval by the School of	
Fifteen units of coursework in another discipline such as a minor or	15
Three units chosen from CSE courses numbered 3000 and above.	3

Game Development Concentration (25 units)

(Program Code: CSGD)

PHYS 2500	General Physics I	4
or PHYS 2000	Introduction to Physics I	
MATH 2220	Calculus II	4

MATH 2310	Applied Linear Algebra	4	
PHYS 2500L	General Physics I Lab	1	
or PHYS 2000	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 relate to game development. Subject to approval by the School of Compu Science and Engineering.			
Total Units		25	

System Administration Concentration (23 units)

(Program Code: CSSA)

60-67

Total Units		
Three units chosen from CSE courses numbered 3000 and above.		3
CSE 5720	Database Systems	3
CSE 4600	Operating Systems	3
CSE 4010	Contemporary Computer Architecture	4
CSE 3660	Systems Administration II	3
CSE 3650	Systems Administration I	3
CSE 3100	Digital Logic	4