

Bachelor of Science in Computer Engineering

Students in this degree program do not need to take courses in the General Education categories A3 Critical Thinking, B2 Life Science, and D3 Lower Division Social Science.

Students in this major can satisfy B5 Upper Division Scientific Inquiry by taking CSE 5408.

Requirements (92 units)

Total units required for graduation: 125

Requirements for the B.S. in Computer Engineering

(Program Code: COEN)

Lower-division requirements (39)

CSE 2010	Computer Science I	4
CSE 2020	Computer Science II	4
MATH 2720	Discrete Mathematics	3
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
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
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Total Units	92
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