B.S. Computer Engineering

Program Admissions Requirements

Including the university's General Education Requirements (a minimum of 36 credits--see the General Education Requirements in the Academic Information section of this catalog), the program of study for the Bachelor of Science in Computer Engineering degree totals a minimum of 120 credits as follows:

General Education

The listing below includes program requirements that also fulfill General Education requirements.

Code	Title	Credits
Objective 1- ENGL 1101, ENGL 1102 [1]		6
Objective 2- COMM 1101		3
Objective 3- MATH 1170		4
Objective 4		6
Objective 5-PHYS 2211, CHEM 1111, CHEM 1111L		9
Objective 6		6
Students must fulfill Objective 7 or Objective 8		**3**
Objective 7-CS 1181		
Objective 8		
Objective 9		3
Total Credits		40

[1] "P" courses are equivalent to the original course.

Major Requirements

All required courses for the B.S. Computer Engineering major must be completed with a grade of C- or higher.

Code	Title	Credits
CHEM 1111	General Chemistry I (Partially Fulfills General Education Objective 5)	4
CHEM 1111L	General Chemistry I Lab (Partially Fulfills General Education Objective 5)	1
CS 1181	Computer Science and Programming I (Fulfills General Education Objective 7)	3
ENGL 3307	Professional and Technical Writing	3
MATH 1170	Calculus I (Fulfills General Education Objective 3)	4
MATH 1175	Calculus II	4
MATH 2240	Linear Algebra	3
MATH 3360	Differential Equations	3
PHYS 2211	Engineering Physics I (Partially satisfies General Education Objective 5)	4
PHYS 2212	Engineering Physics II	4
CS 1187	Applied Discrete Structures	3
CS 1337	Computer Organization and Architecture	3
CS 2235	Data Structures and Algorithms	3
CS 2263	Advanced Object-Oriented Programming	3
CS 3337	Secure Systems and Networks	3
CS 4461	Secure Operating Systems	3
ECE 1100	Foundations of Electrical and Computer Engineering	1
ECE 2200	Electrical Circuits I	3
ECE 2200L	Electrical Circuits I Laboratory	1
ECE 2250	Introduction to Digital Systems	3
ECE 2250L	Introduction to Digital Systems Laboratory	1
ECE 3320	Introduction to Electronics	3
ECE 3300	Electrical Circuits II	3
ECE 3300L	Electrical Circuits II Laboratory	1
ECE 3310	Signals and Systems	3
ECE 4450	Advanced Digital Logic Design	3
ECE 4411	Applied Engineering Methods	3
ECE 4460	Advanced Computer Architecture	3
ECE 4460L	Advanced Computer Architecture Laboratory	1
ECE 4451	Embedded Systems Engineering	2
ECE 4451L	Embedded Systems Engineering Laboratory	1
ECE 4420	Advanced Electronics	3
ECE 4420L	Advanced Electronics Laboratory	1
ECE 4470	Digital Signal Processing	3
ECE 4495	Capstone Design Project I	3
ECE 4496	Capstone Design Project II	3
Total Credits		96

Degree Totals

Code	Title	Credits
Program Admission Requirements		0
General Education		40
Major Requirements (Required General Education credits removed.)		80
Upper Division Free Electives		0
Free Electives		0
Total Credits		120