

Bachelor of Science in Computer Engineering

TOTAL UNITS TO DEGREE:			128
Course	Course Title		Units
First Semester (suggested timeline for GE; adjust as needed for major)			
B4	MATH 130	Calculus I	4
B1/B3	PHYS 135	Physics I Newtonian Mechanics	4
	CHEM 110	General Chemistry for Engineering	3
A1			3
C1			3
TOTAL:			17
Second Semester (suggested timeline for GE; adjust as needed for major)			
A2			3
	MATH 131	Calculus II	3
	PHYS 136	Physics II Electricity and Magnetism	4
C2			3
D1/Code 1			3
B2			3
TOTAL:			19
Third Semester (suggested timeline for GE; adjust as needed for major)			
A3			3
	CS 101	Intro to CS I	4
	CS 211	Discrete Math	3
	MATH 230	Calculus III	3
Writing II	ENGR 200	Introduction to Engineering and Design	3
TOTAL:			16
Fourth Semester (suggested timeline for GE; adjust as needed for major)			
	CS 201	Intro to CS II	4
	CMPE 221	Computer Organization & Assembly Language	3
	ENGR 230	Electric Circuits I	3
	MATH 210	Linear Algebra & Differential Equations	3
D2/Code 2			3
TOTAL:			16
Fifth Semester (suggested timeline for GE; adjust as needed for major)			
	ENGR 220	Statics	3
	CS 301	Data Structures	4
	CMPE 321	Computer Architecture	3
	CMPE 322	Digital Design Lab	1
	CMPE 330	Electric Circuits II	3
	MATH 375	Differential Equations I	3
TOTAL:			17

Up to 9 units may be double counted, as follows: 3 units LD GE with Major Prefix; 3 units Code with LD GE; and 3 units Writing II with Major. LD GE courses that are required in the major, but outside of the major prefix, are permissible.

Please enter all courses required for the major, including any prerequisites. If there are any General Education courses that are recommended to complement the major they should be included in the table below, and listed in the road map.

- General Education and University Requirements-Suggested Courses
- A1. first semester
 - A2. second semester
 - A3. third semester
 - B1. PHYS 135
 - B2. second semester
 - B3. PHYS 135
 - B4. MATH 130
 - C1. first semester
 - C2. second semester
 - C3. seventh semester
 - D1. second semester
 - D2. fourth semester
 - D3. sixth semester
 - E. waived
 - Code 1. second semester
 - Code 2. fourth semester
 - Writing II ENGR 200
 - B6. eighth semester
 - C4. eighth semester
 - D4. seventh semester

Sixth Semester (suggested timeline for GE; adjust as needed for major)

	UD Major	Elective	3
	CMPE 344	Microprocessor Lab	3
	CMPE 370	Digital Signal Processing I	3
	INDE 330	Data Analysis for Solving Engineering Problems	3
D3			3
		TOTAL:	15

Seventh Semester (suggested timeline for GE; adjust as needed for major)

	CMPE 492	Senior Design I	3
	CMPE 421	Computer Architecture II	3
	UD Major	Elective	3
D4			3
Add'l C1/C2			3
		TOTAL:	15

Eighth Semester

	CMPE 493	Senior Capstone: Senior Design II	3
	CMPE 480	VLSI Circuit Design/Layout	4
B6			3
C4			3
		TOTAL:	13