

COMPUTER ENGINEERING 2019-20

FRESHMAN YEAR

First Semester	Credi	Second Semester	Cred
MATH 1131Q – Calculus I	4	MATH 1132Q – Calculus II	4
CHEM 1127Q – Gen. Chem. I	4	PHYS 1501Q ¹ – Engineering Physics I	4
CSE 1010 – Intro. to Computing for	3	CSE 1729 – Intro. Principles of	3
ENGL 1010 or 1011 – Academic	4	Arts and Humanities course ²	3
ENGR 1000 – Orientation to	1	Social Sciences course ²	3
	16		17

SOPHOMORE YEAR

First Semester	Credi	Second Semester	Credits
MATH 2110Q – Multivariable Calculus	4	MATH 2410Q – Differential Equations	3
PHYS 1502Q ¹ – Engineering Physics II	4	ECE 2001 – Electric Circuits	4
CSE 2050 – Data Structures & OO	3	CSE 2500 – Intro to Discrete Systems	3
CSE 2300 – Logic Design	4	PHIL 1104 – Philosophy and Social	3
	15	Social Sciences course ²	3
			16

JUNIOR YEAR

First Semester	Credit	Second Semester	Credits
ECE 3101 – Signals and Systems	3	ECE 3401 – Digital Systems Design	3
ECE 3201 – Electronic Circuit Design	4	ECE 3411 – Microprocessor App. Lab or	3
Analysis		CSE 4903 – Microprocessor Lab	
CSE 3100 – Systems Programming	3	CSE 4302 – Advanced Computer	3
CSE 3666 – Intro. to Computer	3	STAT 3345Q – Probability Models	3
MATH 2210Q – Linear Algebra	3	Diversity and Multiculturalism course ²	3
	16		15

SENIOR YEAR

First Semester	Credi	Second Semester	Cred
ECE 4901 – E&CE Design I	2	ECE 4902 – E&CE Design II	3
ECE 4099W – Independent Study	1	ECE 3421 – VLSI Design &	4
CSE 4300 – Operating Systems	3	Professional Requirement ³	3
Professional Requirement ³	3	Professional Requirement ³	3
Design Laboratory ⁴	3	Diversity and Multiculturalism course ²	3
Elective	3		16
	15		

¹ Either the two-semester sequence of PHYS 1401Q-1402Q or the three-semester sequence of PHYS 1201Q-1202Q followed by PHYS 1230 or 1530 may be taken instead to satisfy this requirement. However, only eight credits of PHYS 1201-1202-1230/1530 can be used toward the required 126 credits for the Engineering degree.

² The courses from content areas one (Arts and Humanities) and two (Social Sciences) must be from four different departments. One course from either content area one (Arts and Humanities) or content area two (Social Sciences) may also be used to fulfill one of the requirements from content area four (Diversity and Multiculturalism). One course from content area four must be an international course.

³ Choose three (3) from: ECE 3111, ECE 3431/CSE 3802, ECE 3221, ECE 4112, ECE 4121, ECE 4131, ECE4451, CSE 2102, CSE 3300, CSE 3500, CSE 3504, CSE4707, and CSE4709. At least one of the three must be ECE 4112 or CSE 3504.

⁴ Choose one (1) from: CSE 3350/ECE 4401, CSE 4901/ECE 4402, ECE 4114, and ECE 4132

⁵ One additional W course must be taken, typically as one of the content area courses.