

# Computer Engineering

## Bachelor of Science Degree

### Curricula years 2011-2012, 2012-2013

#### FRESHMAN YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
ENGR 1020 Intro Engr	2		ENGR 1410 & 1411 Problm solvng	3	
CH 1010 & 1011 General Chemistry	4		Hum/Soc Sci req	3	
ENGL 1030 Comp I	3		Hum/Soc Sci req	3	
MATH 1060 Calc I	4		MATH 1080 Calc II	4	
Hum/Soc Sci req	3		PHYS 1220 Phys I	3	
	16			16	

#### SOPHOMORE YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
CPSC 1110 & 1111 C/C++	3		ECE 2120 Circuits Lab II	1	
ECE 2010 Logic	2		ECE 2220 Sys Progrmng	3	
ECE 2020 Circuits I	3		ECE 2620 Circuits II	3	
ECE 2090 Logic Lab	1		ECE 2720 Comp Org	3	
ECE 2110 Circuits Lab I	1		ECE 2730 Comp Org Lab	1	
MATH 2060 Calc III	4		MATH 2080 Diff Eq	4	
PHYS 2210 Physics II	3				
	17			15	

#### JUNIOR YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
ECE 2230 Com Sys Eng	3		ECE 3170 Random Signal	3	
ECE 3110 Lab III	1		ECE [CPSC] 3220 Intro to Operating Structures	3	
ECE 3200 Electronics I	3		ECE 3270 Dig Design	3	
ECE 3300 Signals/Sys	3		ECE 3520 Prog Systems	3	
ECE 3710 Micro Inter	3		MATH 4190 Discr Math	3	
ECE 3720 Micro Inter Lab	1				
MATH 3110 Linear Algebra	3				
	17			15	

#### SENIOR YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
COMM 1500 & 1501 or COMM 2500 & 2501	3		ECE 4960 Integr Sys Des II	2	
ECE 4090 Systems Design	3		Hum/Soc Sci req	3	
ECE 4950 Integr Sys Des I	2		CpE Tech Elec	3	
CpE Tech Elec	3		CpE Tech Depth Elec	3	
CpE Tech Elec	3		Special Elective <sup>1</sup>	3	
ENGL 3140 Tech Writing	3				
	17			14	

**NOTES:**

1. Special Elective Options:

- a. 3 additional credits of approved Humanities/Social Science courses; or
- b. ELE 3010 - Executive Leadership and Entrepreneurship I or ELE 4010 - Executive Leadership and Entrepreneurship II; or
- c. An additional 3-credit, 4000-level course from the EE Technical Elective List or the CpE Technical Elective List; or
- d. An additional 3-credit MATH course from the following list: MATH 4120 (Intro. to Modern Algebra), MATH 4340 (Advanced Engineering Math), MATH 4350 (Complex Variables), MATH 4400 (Linear Programming), MATH 4410 (Intro to Stochastic Models), and MATH 4530 (Advanced Calculus).