Computer Engineering
Bachelor of Science Degree
Curriculum year 2014-2016

FRESHMAN YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
ENGR 1050 Engr Discipline & Skills I	1		ENGR 1070 Program & Prob Slvng I	1	
ENGR 1060 Engr Discipline & Skills II	1		ENGR 1080 Program & Prob Slvng II	1	
CH 1010 & 1011 General Chemistry	4		ENGR 1090 Program & Prob Slvng III	1	
ENGL 1030 Accelerated Composition	3		Hum/Soc Sci req	3	
MATH 1060 Calculus I	4		Hum/Soc Sci req	3	
Hum/Soc Sci req	3		MATH 1080 Calculus II	4	
			PHYS 1220 Physics with Calculus I	3	
	16			16	

SOPHOMORE YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
CPSC 1110 & 1111 C/C++	3		ECE 2120 Electrical Engr Lab II	1	
ECE 2010 Logic & Computing Devices	2		ECE 2220 Systems Programming	3	
ECE 2020 Electric Circuits I	3		ECE 2620 Electric Circuits II	3	
ECE 2090 Logic Lab	1		ECE 2720 Computer Organization	3	
ECE 2110 Electrical Engineering Lab I	1		ECE 2730 Computer Org Lab	1	
MATH 2060 Calculus III	4		MATH 2080 Differential Equations	4	
PHYS 2210 Physics with Calculus II	3				
	17			15	

JUNIOR YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
ECE 2230 Computer Systems Engr	3		ECE 3170 Random Signal Analysis	3	
ECE 3110 Electrical Engineering Lab III	1		ECE [CPSC] 3220 Introduction to	3	
ECE 3200 Electronics I	3		Operating Systems		
ECE 3300 Signals, Sys, & Transforms	3		ECE 3270 Digital Computer Design	3	
ECE 3710 Microcontroller Interfacing	3		ECE 3520 Programming Systems	3	
ECE 3720 Microcontroller Lab	1		MATH 4190 Discrete Mathematics	3	
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 Systems Design II	2	
			Hum/Soc Sci req	3	
ECE 4090 Cont &Discrete Sys Design	3		CpE Technical Elective	3	
ECE 4950 & 4951 Systems Design I	2		CpE Technical Elective	3	
ENGL 3140 Technical Writing	3		Special Elective [1]	3	
CpE Technical Elective	3				
CpE Technical Elective	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, 400-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).