

Electrical 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		CH 1020 & 1021 Gen Chemistry II	4	
CH 1010 & 1011 Gen Chemistry I	4		ENGR 1410 & 1411 Problm solvng	3	
ENGL 1030 Comp I	3		MATH 1080 Calc II	4	
MATH 1060 Calc I	4		PHYS 1220 Phys I	3	
Hum/Soc Sci req	3		Hum/Soc Sci req	3	
	16			17	

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 2620 Circuits II	3	
ECE 2020 Circuits I	3		ECE 2720 Comp Org	3	
ECE 2090 Logic Lab	1		ECE 2730 Comp Org Lab	1	
ECE 2110 Circuits Lab I	1		MATH 2080 Diff Eq	4	
MATH 2060 Calc III	4		Hum/Soc Sci req OR EE Tech Elec	3	
PHYS 2210 Physics II	3		[ECE 2220 Sys Progrmng]		
	17			15	

JUNIOR YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
ECE 3110 Lab III	1		ECE 3120 Lab IV	1	
ECE 3200 Electronics I	3		ECE 3170 Random Signal	3	
ECE 3300 Signals/Sys	3		ECE 3210 Electronics II	3	
ECE 3600 Power Engineering	3		ECE 3710 Micro Inter	3	
ECE 3800 Electromagnetics	3		ECE 3720 Micro Inter Lab	1	
Adv. Mathematics Elective ¹	3		ECE 3810 Fields, Waves	3	
			ENGL 3140 Tech writing	3	
	16			17	

SENIOR YEAR

Fall semester	Cr	Term completed	Spring semester	Cr	Term completed
COMM 1500 & 1501 or COMM 2500 & 2501	3		ECE 4960 Systems Des II	2	
ECE 4090 Syst. Des	3		EE Tech Elec OR	3	
ECE 4270 Comm Systems	3		Hum/Soc Sci req		
ECE 4950 Systems Design I	2		EE Tech Depth Elec	3	
EE Tech Elec	3		Hum/Soc Sci req	3	
			Special Elective ²	3	
	14			14	

NOTES:

1. Advanced Mathematics Elective Options: MATH 4190, MATH 4340, MATH 4350, MATH 4530, MATH 4540.
2. 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 3110 (Linear Algebra), MATH 4120 (Intro. to Modern Algebra), MATH 4190 (Discrete Math I), MATH 4340 (Advanced Engineering Math), MATH 4350 (Complex Variables), MATH 4400 (Linear Programming), MATH 4410 (Intro to Stochastic Models), and MATH 4530 (Advanced Calculus I), MATH 4540 (Advanced Calculus II).