

Bachelor of Science in Electrical Engineering

Student Planning Guide: Fall 2016

	Fall	Winter	Spring
Freshman	MATH 11 Calculus I	MATH 12 Calculus II	MATH 13 Calculus III(
	CHEM 11 Chemistry I	PHYS 31 Physics for Engineers I	PHYS 32 Physics for Engineers II
	Culture and Ideas I	Culture and Ideas II	ELEN 20 Energy and Nanotechnology
	Critical Thinking and Writing I	ELEN 21 – Intro to Logic Design	Critical Thinking and Writing II
	ENGR 1 Intro to Eng. (2 units)		
	Fall	Winter	Spring
Sophomore	ELEN 50 Circuits I	ELEN 100 Circuits II	ELEN 110 Linear Systems
	COEN 44 Applied Programming	ELEN 33 Dig. Syst. Architecture	ELEN 115 Electronic Circuits
	MATH 14 Calculus IV	AMTH 106 Differential Equations	COEN 12 Data Structures
	PHYS 33 Physics for Engineers III	PHYS 34 Physics for Engineers IV	University Core
	Fall	Winter	Spring
Junior	ELEN 104 Electromagnetics	MECH 121 Thermodynamics	AMTH 108 Probability and Statistics
	CENG 41 Mechanics I	Advance Science Elective *	Professional Development**
	ELEN Elective 1§	ELEN Elective 2§	ELEN Elective 3§
	University Core	University Core	University Core
			ELEN 192 Intro to Sr. Design (2 units)
	Fall	Winter	Spring
Senior	ELEN 194 Design Project I (2 units)	ELEN 195 Design Project II (2 units)	ELEN 196 Design Project III (2 units)
	ELEN Elective 4§	ENGL 181 Eng. Comm. (4 units)	Free Elective University
	University Core	Free Elective University	Free Elective University

Humanities & Social Science
 Math & Science
 Major
 Technical Electives

*Science Elective may be one of the following: CHEM 12, BIOL 21, PHYS 113, PHYS 121, MATH 105, or MATH 123

§ELEN electives take one of each of the four categories: **IC Design** (116, 127, 153, 151, 156), **Comm/RF** (141, 105m 144), **Power** (182, 183, 164), **Systems** (118, 123, 129, 130, 133, 160), or consult with your advisor. Additional electives may be taken, with approval of advisor from: a) COEN Courses: 120, 122, 146, and or b) First-year graduate level Electrical Engineering Coursework

**Professional Development: If a COOP experience is selected for spring, courses other than 192 may be moved to senior year elective slots.

*** These slots will be given as extra credits to be used in the 4-5 plan

Minimum requirement of units for Electrical Engineering Degree is 190 units.