Electrical Engineering Student Planning Guide: Fall 2011

Degree of Bachelor of Science

	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
	Chem 11 Chemistry I Cultures and Ideas I		Cultures and Ideas II		ELEN 21 - Intro to Logic Design
	Critical Thinking and Writing I		University Core (Note 1)		Critical Thinking and Writing II
	Engr 1 Intro. To Engr (1 unit)				

	Fall		Winter		Spring	
ē	CENG 41 Mechanics I		ELEN 50 Circuits I		ELEN 100 Circuits II	
Ĕ	Bio 21 (Note 1)		COEN 44 Applied Programming		ELEN 33 Dig. Syst. Architecture	
ğ	Math 14 - Calculus IV		AMTH 106 Differential Equations		COEN 12 Data Structures	
တိ	Phys 33 Physics for Engineers III		Phys 34 Physics for Engineers. IV		University Core	

	Fall	Winter	Spring
	ELEN 110 Linear Systems	ELEN 151 Semiconductor Devices	AMTH 108 Probability and Stat.
፟	ELEN 115 Electronic Circuits	MECH 121 Thermodynamics	Technical Elective 2 (Note 2)
Ĕ	ELEN 104 Electromagnetics	Technical Elective 1 (Note 2)	Professional Development (Note 3)
ゔ	University Core	University Core	University Core
			ELEN 192 Int. to Sr. Design (2 units)

	Fall		Winter		Spring	
	ELEN 194 Design Proj. I (2 units)		ELEN 195 Design Proj. II (2 units)		ELEN 196 Design Proj. (1 units)	
	Technical Elective 3 (Note 2)		Technical Elective 4 (Note 2)		Elective	
	Elective		Elective		Elective	
	Elective		University Core		Elective	
	Engl 181 Eng. Comm. (2 units)				Engl 182 Eng. Comm. (1 unit)	

Program Overview:

Senior

- UNIVERSITY CORE: 12 courses: Critical Thinking and writing (2), Cultures and Ideas (3),
 Religion, Theology and Culture (3), Ethics (1), Diversity (1), Advanced Writing (2),
 Additional courses may be needed for Core Learning Outcomes and Pathway requirement
- ELECTRICAL ENGINEERING PROGRAM: required courses in engineering, science, mathematics, technical electives (4 courses), and professional development
- ELECTIVES (as needed) to meet requirements for minimum units, university core, minor, or for personal interest

Courses are color coded to indicate engineering, mathematics and science, humanities, technical elective, and elective Many courses have a corequisite laboratory requiring separate enrollment One or two unit courses are indicated by italic type

- Note 1: Students select either Chem 12 in the Freshman Year or Bio 21 in the Sophomre Year
- Note 2: Four Technical Electives are required.
- Note 3: Professional development is satisfied by one of the following: COOP, Study Abroad, Engr 110,
 Minor in engineering or science, Combined BS/MS program, 5th technical elective.

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