

## B.S. in Electrical Engineering (2008-2009)

### FRESHMAN YEAR

First Semester			Second Semester		
Course	Title	Units	Course	Title	Units
ENGR 102	Introduction to Engineering	3	MSE 110	Solid State Chemistry (w/Lab)	4
MATH 125	Calculus I	3	MATH 129	Calculus II	3
CHEM 151	Fundamentals of Chemistry	4	PHYS 141	Introductory Mechanics (w/Lab)	4
ENGL 101	First-year Composition	3	ENGL 102	First-year Composition	3
Tier 1 INDV	Individuals and Societies	3	ECE 175	Computer Programming for Eng. Apps.	3
		TOTAL 16			TOTAL 17

### SOPHOMORE YEAR

First Semester			Second Semester		
Course	Title	Units	Course	Title	Units
ECE 274	Digital Logic (w/Lab)	3	ECE 220	Basic Circuits (w/Lab)	5
MATH 223	Vector Calculus	4	MATH 254	Differential Equations	3
PHYS 241	Intro. to Electricity & Magnetism (w/Lab)	4	PHYS 143	Intro. to Optics & Thermodynamics	2
Tier 1 TRAD	Traditions & Cultures	3	Tier 1 INDV	Individuals and Societies	3
Tier 2 INDV	Individuals and Societies	3	Tier 1 TRAD	Traditions & Cultures	3
		TOTAL 17			TOTAL 16

### JUNIOR YEAR

First Semester			Second Semester		
Course	Title	Units	Course	Title	Units
ECE 301	Electrical Engineering Lab.	2	ECE 304	Design of Electronic Circuits (w/Lab)	6
ECE 320a	Circuit Theory	3	ECE 340	Engineering Systems Analysis	3
ECE 351a	Electronic Circuits	3	ECE 372	Microprocessors/Embedded Systems (w/Lab)	3
SIE 305	Intro to Eng. Probability & Statistics	3	ECE 381	Intro. to Electromagnetics	3
MATH 322	Math Analysis for Engineers	3			
		TOTAL 14			TOTAL 15

### SENIOR YEAR

First Semester			Second Semester		
Course	Title	Units	Course	Title	Units
ENGR 498a	Senior Capstone I	3	ENGR 498b	Senior Capstone II	3
ECE 352	Device Electronics	3	Technical Electives		9
Technical Electives		12	Tier 2	Arts/Humanities	3
		TOTAL 18			TOTAL 15

**TOTAL DEGREE UNITS 128**