

ELECTRICAL ENGINEERING (131 Credits)

Effective 8/08

Name: _____ Date: _____

GR	CR	COURSE	REMARKS	GR	CR	COURSE	REMARKS
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Mathematics -- 18 Credits

___	4	Math 2640, Calculus & Analytic Geom. I	_____
___	4	Math 2740, Calculus & Analytic Geom. I	_____
___	4	Math 2840, Calculus & Analytic Geom. III	_____
___	3	Math 3630, Differential Equations	_____
___	3	Advanced Math Elective (Math 2730,3230,3830,4030,4430 or 4530)	_____

Basic Sciences -- 17 Credits

___	5	Chem 1450, Chemistry for Engineers	_____
___	3	Phys 2530, General Physics I	_____
___	1	Phys 2510, General Physics I Lab	_____
___	4	Phys 2640, General Physics II	_____
___	4	Phys 3140, Modern Physics	_____

Other Courses -- 17 Credits

___	1	GE 1000, Engineering Success Skills	_____
___	1	GE 1030, Intro. to Engineering Projects	_____
___	2	GE 2820, Engineering Economy	_____
___	3	COSC 1430, Programming in C++	_____
___	3	Engl 1130, Freshman Comp. I	_____
___	3	Engl 1230, Freshman Comp. II	_____
___	2	Speech (Spch 1010/1250/2250/3250)	_____
___	1	PE 1000, Fitness Assessment	_____
___	1	PE 1xxx, Phy. Ed. Activity	_____

Humanities & Social Sciences -- 21/30 Credits

___	3	Humanities: Phil 2540, Science, Technology & Ethics	_____
___	3	Fine Arts Elective:	_____
___	3	Historical Perspective Elective:	_____
___	3	2nd Hum, FA, HP in Same Discipline:	_____
___	3	Social Science Elective:	_____
___	3	Social Science Elective:	_____
___	3	2nd SocSc in Same Discipline:	_____
___	3	International Education or International Exchange:	_____
___	3	Ethnic Studies:	_____
___	3	Gender Studies:	_____

Engineering Sciences Electives -- 6 Credits

___	3	GE 2130, Statics	_____
___	2	GE 2220, Dynamics	_____
___	3	GE 2230, Dynamics	_____
___	4	GE 2340, Mechanics of Materials	_____
___	3	GE 2630, Basic Thermoscience	_____
___	3	ME 2630, Thermodynamics	_____
___	3	EP 3930, Intro to Microsyst. & Nanotech	_____

Electrical Engineering -- Required Courses -- 28 Credits

GR	CR	COURSE	REMARKS	Design
___	1	EE 1020, Electrical Engineering Projects & Tools	_____	None
___	3	EE 1210, Circuit Modeling I	_____	None
___	4	EE 2210, Circuit Modeling II	_____	Low
___	4	EE 2220, Signals & Systems	_____	Medium
___	4	EE 3020, Analog Electronics	_____	Medium
___	4	EE 3140, Electric & Magnetic Fields	_____	None
___	3	EE 3310, Automatic Controls	_____	Medium
___	1	EE 3300 Controls Laboratory	_____	Medium
___	4	EE 3770, Logic and Digital Design	_____	Medium

Electrical Engineering -- Professional Emphasis Courses -- 24 Credits

Each student shall complete a total of 24 credits from the list below, as follows:

- (1) At least one *emphasis*, consisting of one of EE 4050, EE 4350, EE 4450, or EE 4750 from the chosen emphasis and at least 4 more credits at the 4000 level from that emphasis area:
 (2) At least 2 of the following courses: EE 4050, EE 4350, EE 4450, or EE 4750.

Communications & Electronics Emphasis

___	4	EE 3130, Solid State Electronics Devices	_____	None
___	4	EE 3780, Introduction to Microprocessors	_____	Medium
___	4*	EE 4050, Advanced Analog Electronic Circuits	_____	High
___	4	EE 4430, Power Electronics & Electrical Machines	_____	High
___	4	EE 4610, Communication Systems	_____	Low
___	4	EE 4620, Optical Systems	_____	Low
___	4	EE 4630, Advanced Communication Systems	_____	Medium
___	1	EE 4010, UHF Amplifier Design	_____	High
___	1	EE 4020, UHF Oscillator Design	_____	High
___		EE 4980, Current Topics in EE	_____	___
___		EE 4990, Independent Study	_____	___

Computer Engineering Emphasis

___	4	EE 3130, Solid State Electronics	_____	None
___	4	EE 3780, Introduction to Microprocessors	_____	Medium
___	4	EE 4720, Microcomputer Architecture & Interfacing	_____	High
___	4*	EE 4750, Advanced Digital Design	_____	High
___		EE 4980, Current Topics in EE	_____	___
___		EE 4990, Independent Study	_____	___

Controls Emphasis

___	4	EE 3410, Electric Power Engineering	_____	Low
___	4	EE 3780, Introduction to Microprocessors	_____	Medium
___	4	EE4310, Modern Control Systems	_____	High
___	4	EE 4320, Digital Signal Processing	_____	High
___	4*	EE 4350, Discrete Time Control System	_____	High
___		EE 4980, Current Topics in EE	_____	___
___		EE 4990, Independent Study	_____	___

Power & Energy Emphasis

___	4	EE 3410, Electric Power Engineering	_____	Low
___	4	EE 3780, Introduction to Microprocessors	_____	Medium
___	4	EE 4430, Power Electronics & Electrical Machines	_____	High
___	4	EE 4440 Electric Motor Drives	_____	High
___	4*	EE 4450, Power Systems Analysis & Design	_____	High
___		EE 4980, Current Topics in EE	_____	___
___		EE 4990, Independent Study	_____	___