

<b>ELECTRICAL ENGINEERING</b>										2016-2017					
Cr. Hrs	SEM 1	Cr. Hrs	SEM 2	Cr. Hrs	SEM 3	Cr. Hrs	SEM 4	Cr. Hrs	SEM 5	Cr. Hrs	SEM 6	Cr. Hrs	SEM 7	Cr. Hrs	SEM 8
4	<b>MATH 1220 or 1700 Calc I</b>	4	<b>MATH 1230 or 1710 Calc II</b>	4	<b>MATH 2720 Multivariate Calculus</b>	4	<b>MATH 3740 Differential Equations</b>	4	<b>ECE 2210 Electronics I (L)</b>	4	<b>ECE 3200 Electronics II (L) (Spring only)</b>	2	<b>ECE 4810 Electrical Engineering Design I</b>	3	<b>ECE 4820 Electrical Engineering Design II</b>
	MATH 1180 ≥ C or placement		MATH 1220 or 1700 ≥ C		MATH 1230 or 1710 ≥ C		MATH 2720 ≥ C		ECE 2100 ≥ C PHYS 2070 ≥ C		ECE 2210 ≥ C ECE 3100 ≥ C		IME 3160 ≥ C ECE 2510 ≥ C (ECE 3200 or ECE 3300) ≥ C		ECE 4810 ≥ C
3+1	<b>CHEM 1100/1110 General Chem I (L)</b>	4+1	<b>PHYS 2050/2060 University Physics I (L)</b>	4+1	<b>PHYS 2070/2080 University Physics II</b>	4	<b>ECE 2100 Circuit Analysis (L)</b>	3	<b>ECE 3100 Network Analysis</b>	3	<b>ECE 3710 Linear Systems</b>	4	<b>ECE 3300 Electrical Machinery (L) (Fall only)</b>	3	<b>ECE ELECTIVE ***</b>
	MATH 1110 ≥ C or placement		MATH 1220 or 1700 ≥ C		PHYS 2050 ≥ C MATH 1230 or 1710 ≥ C		MATH 1230 or 1710 ≥ C		ECE 2100 ≥ C MATH 3740 ≥ C		ECE 3100 ≥ C		ECE 3100 ≥ C ECE 3610 ≥ C		
			MATH 1230/1710 ≥ C or con.		MATH 2720 ≥ C or con.		PHYS 2070 ≥ C or con.								
3	<b>IME 1020 Technical Communication</b>	3-4	<b>CS 1200 Programming in C or CS 1200 Computer Science I</b>	4	<b>ECE 2510 Intro to Microprocessors (L)</b>	3+1	<b>CHEM 1120 &amp; 1130 Chemistry II</b>	4	<b>ECE 3610 Electromagnetic Fields</b>	3	<b>ECE 3800 Probabilistic Methods</b>	3	<b>IME 3100 Engineering Economy</b>	3	<b>ECE ELECTIVE ***</b>
	ENGL 1000 ≥ C or placement		Co-requisite MATH 1180		CS 1200 ≥ C ECE 2500 ≥ C		CHEM 1100 and 1110 ≥ C		ECE 2100 ≥ C MATH 3740 ≥ C PHYS 2070 ≥ C		ECE 3100 ≥ C		MATH 1230 Junior Standing		
							↑ OR ↓								
3	<b>ECE 2500 Digital Logic (L)</b>	3	<b>GEN ED I* Fine Arts</b>	3	<b>GEN ED II* Humanities</b>	4+1	<b>PHYS 3090 &amp; 3100 Introductory Modern Physics</b>	3	<b>ENGINEERING SCIENCE ELECTIVE **</b>	3	<b>IME 3160 Report Preparation</b>	3	<b>ECE ELECTIVE ***</b>	3	<b>ENGINEERING SCIENCE ELECTIVE**</b>
	MATH 1110 ≥ C						PHYS 2070 ≥ C MATH 2300 or 2720 ≥ C				IME 1020 ≥ C Junior Standing				
2	<b>GEN ED VIII* Health and Well-being</b>					3	<b>GEN ED III* U.S. Cultures and Issues</b>	3	<b>GEN ED IV* Other Cultures and Civilizations</b>	3	<b>ENGINEERING SCIENCE ELECTIVE**</b>	3	<b>ENGINEERING SCIENCE ELECTIVE**</b>	3	<b>GEN ED V* Social and Behavioral Sciences</b>
	16 hours		15-16 hours		16 hours		15-16 hours		17 hours		16 hours		15 hours		15 hours
															125-127 total hours

NOTE: Prerequisite courses are shown in smaller print

\* See your academic advisor for general education requirements..

\*\* See your academic advisor for a list of approved Engineering Science Electives

\*\*\* ECE Elective options are outlined on page 2.

45-46 Cr. Pre-engineering Req.

48-49 Cr. EE Req.

11 Cr. Gen Ed Req.

12 Cr. Eng. Sci. Elective Req.

A 'C' or better is required for admission to upper level CEAS courses

9 Cr. ECE Elective Req.

Name: \_\_\_\_\_

Student Number: \_\_\_\_\_

## ELECTRICAL ENGINEERING ELECTIVES

### ECE ELECTIVES (Choose 3 of the following)

<b>3</b>	<b>ECE 4200 Power Electronics (F)</b>	<b>3</b>	<b>ECE 4300 Electrical Power Systems (Sp)</b>	<b>4</b>	<b>ECE 4510 Microcontroller Applications (L) (Sp)</b>	<b>3</b>	<b>ECE 4550 Digital Signal Processing (Sp)</b>
	ECE 2500 ≥ C		ECE 3300 ≥ C or taken concurrently		ECE 2210 ≥ C		ECE 3800 ≥ C
	ECE 3200 ≥ C				ECE 2510 ≥ C		
	ECE 3300 ≥ C						
<b>3</b>	<b>ECE 4600 Communication Systems (F)</b>	<b>3</b>	<b>ECE 4700 Feedback Systems (Sp)</b>	<b>3</b>	<b>ECE 4710 Motion and Control (F)</b>		
	ECE 3800 ≥ C		ECE 3710 ≥ C		ME 3600 ≥ C or ECE 3710 ≥ C		

Other 4000 or 5000 level Electrical Engineering courses may be used in place of the above courses if **PRIOR** approval is obtained from the Electrical and Computer Engineering Advisor and Department Chair.