

ELECTRICAL ENGINEERING								2020-2021							
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	MATH 1220 or 1700 Calc I	4	MATH 1230 or 1710 Calc II	4	MATH 2720 Multivariate Calculus	4	MATH 3740 Differential Equations	4	ECE 2210 Electronics I (L)	4	ECE 3200 Electronics II (L) (Spring only)	2	ECE 4810 Electrical Engineering Design I	3	ECE 4820 Electrical Engineering Design II
	MATH 1180 ≥ C or placement		MATH 1220 or 1700 ≥ C		MATH 1230 or 1710 ≥ C		MATH 2720 ≥ C		ECE 2100 ≥ C PHYS 2070 ≥ C PHYS 2080 ≥ C		ECE 2210 ≥ C ECE 3100 ≥ C		IEE 3160 ≥ C ECE 2510 ≥ C ECE 3200 or ECE 3300 ≥ C ECE 3710 ≥ C		ECE 4810 ≥ C
3+1	CHEM 1100/1110 General Chem I (L)	4+1	PHYS 2050/2060 University Physics I (L)	4+1	PHYS 2070/2080 University Physics II	4	ECE 2100 Circuit Analysis (L)	3	ECE 3100 Network Analysis	3	ECE 3710 Linear Systems	4	ECE 3300 Electrical Machinery (L) (Fall only)	3	ECE ELECTIVE ***
	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	IEE 1020 Technical Communication	3-4	CS 1200 Programming in C or CS 1110 Computer Science I	4	ECE 2510 Intro to Microprocessors (L)	3+1	CHEM 1120 & 1130 Chemistry II	4	ECE 3610 Electromagnetic Fields	3	ECE 3800 Probabilistic Methods	3	IEE 3100 Engineering Economy	3	ECE ELECTIVE ***
	ENGL 1000 ≥ C or placement		Co-requisite MATH 1180 ≥ C		CS 1200 or CS 1110 ≥ C ECE 2500 ≥ C		CHEM 1100 and 1110 ≥ C ↑ OR ↓		ECE 2100 ≥ C MATH 3740 ≥ C PHYS 2070 ≥ C		ECE 3100 ≥ C		MATH 1230 Junior Standing		
3	ECE 2500 Digital Logic (L)	3	WES Level II Artistic Theory & Practice	3	WES Level II Societies & Cultures*	4+1	PHYS 3090 & 3100 Introductory Modern Physics	3	ENGINEERING SCIENCE ELECTIVE **	3	IEE 3160 Report Preparation	3	ECE ELECTIVE ***	3	ENGINEERING SCIENCE ELECTIVE**
	MATH 1110 ≥ C						PHYS 2070 ≥ C MATH 2300 or 2720 ≥ C				IEE 1020 ≥ C Junior Standing				
3	WES Level II Personal Wellness					3	WES Level II Societies & Cultures*	3	WES Level I Inquiry & Engagement	3	ENGINEERING SCIENCE ELECTIVE**	3	ENGINEERING SCIENCE ELECTIVE**	3	WES Level III Global Perspectives
	17 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. 9 Cr. ECE Elective Req.

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

Name: _____

Student Number: _____

ELECTRICAL ENGINEERING ELECTIVES

ECE ELECTIVES (Choose 3 of the following)							
3	ECE 4200 Power Electronics (F)	3	ECE 4300 Electrical Power Systems (Sp)	4	ECE 4510 Microcontroller Applications (L) (Sp)	3	ECE 4550 Digital Signal Processing (Sp)
	ECE 2500 ≥ C		ECE 3300 ≥C or taken concurrently		ECE 2210 ≥ C		ECE 3800 ≥ C
	ECE 3200 ≥ C				ECE 2510 ≥ C		
	ECE 3300 ≥ C						
3	ECE 4600 Communication Systems (F)	3	ECE 4700 Feedback Systems (Sp)	3	ECE 4710 Motion and Control (F)		
	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.