

# ELECTRICAL ENGINEERING

CODE: 4280 (141001-01)

Bachelor of Science in Electrical Engineering

Catalog: 2022-2023

Students with an ACT score of 28 or above in mathematics and with at least 8 week of trigonometry in high school may register for Mathematics 270, Calculus I, upon entry. Students with ACT score between 26-27 may take the advanced placement test given by the math department or MATH 143, Pre-calculus Algebra and Trigonometry. Those who do not meet these qualifications and have an ACT sub-score in MATH of at least 23 must take MATH 140, Pre-Calculus Algebra and Trigonometry Fundamentals. Students requiring pre-calculus courses are advised to complete these courses in the summer semester prior to the freshman year.

## FRESHMAN YEAR

<u>First Semester</u> Credit				<u>Second Semester</u> Credit			
Univ 100		3		CMPS 150	Intro to Cmps		3
EECE140	Computer Engr	3		ENGL 102	Comp & Lit		3
ENGL 101	Rhet & Comp	3		MATH 301	Calculus II		4
MATH 270	Calculus I	4		PHYS 201	Gen. Physics I		4
ELEC (HIST) 1		3		EECE 240	Digital Systems		<u>3</u>
		16					17

Freshman Credit Hours = 33

## SOPHOMORE YEAR

<u>First Semester</u> Credit				<u>Second Semester</u> Credit			
CMPS 260	Data Struc/ Software Dsgn	3		EECE 342	Microprocessors		1
EECE 260	PC Applications Lab	1		EECE 233	Telecom I		3
EECE 340	Microprocessors	3		EECE 356	Circuits & Signals II		4
EECE 355	Circuits & Signals I	4		ENGR 218	Stat & Strength of Mat.		3
MATH 350	Differential Equations	3		MATH 302	Calculus III		4
PHYS 202	Gen. Physics II	4		BIOL	Biol Sci Elective		<u>3</u>
		18					18

Sophomore Credit Hours = 36

## JUNIOR YEAR

<u>First Semester</u> Credit				<u>Second Semester</u> Credit			
EECE 380	Rand Proc	3		Science Lab	Elective		1
EECE 335	Physical Electronics	3		EECE 353	Electronics Circuits		4
EECE 461	Control Systems I	3		EECE 447	Power & Machines		3
EECE 444	Circuits & Signals III	3		EECE 344	Eng Electromagnet		3
EECE 452	Comm Engineering I	3		EECE	(Elective) 2		3
		15		EECE	(Elective Lab) 2		<u>1</u>
							15

Junior Credit Hours = 30

## SENIOR YEAR

<u>First Semester</u> Credit				<u>Second Semester</u> Credit			
ENGL 365	Technical Writing	3		ECON 430	Ind. Econ & Fnan		3
EECE 423	Seminar I	1		EECE 460	Design Lab II		1
EECE 443	Design Lab I	2		EECE	Elective		3
EECE	EECE Elective 2	3		ENGL	Eng. Lit. Elective 1		3
EECE	EECE Elective 2	3		Art Elective	_____ 1		<u>3</u>
Elective	Behav Sci Elective 3	3					13
		15					

Senior Credit Hours = 28

Total Credit Hours = 127

1 See Departments approved list of Arts, Humanities, and Behavioral Science Electives

2 See Departments Emphasis Area list elective

3 Elec (Behavioral Science): ECON 300 (Recommended), or a course from the departmental behavioral science elective list)

Students must earn a C or better grade in all EECE, ENGR, and their prerequisites courses in order to meet degree requirements.