

ELECTRICAL ENGINEERING

NAME: _____

CODE: 4280 (141001-01)

Bachelor of Science in Electrical Engineering

Catalog: 2025-2026

Students with an ACT score of 28 or above in mathematics and with at least 8 weeks 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>		<u>Credit</u>	<u>Second Semester</u>		<u>Credit</u>
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	3	EECE 240	Digital Systems	3
		<u>16</u>			<u>17</u>

Freshman Credit Hours = 33

SOPHOMORE YEAR

<u>First Semester</u>		<u>Credit</u>	<u>Second Semester</u>		<u>Credit</u>
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 I	4
EECE 355	Circuits & Signals I	4	ENGR 218	Stat & Mechan	3
MATH 350	Differential Equations	3	MATH 302	Calculus III	4
PHYS 202	Gen. Physics II	4	BIOL	Biol Sci Elective	3
		<u>18</u>			<u>18</u>

Sophomore Credit Hours = 36

JUNIOR YEAR

<u>First Semester</u>		<u>Credit</u>	<u>Second Semester</u>		<u>Credit</u>
EECE 380	Rand Prob & 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	1	EECE	EEECE Elective 2	3
		<u>15</u>	EECE	Elective Lab	1
					<u>15</u>

Junior Credit Hours = 30

SENIOR YEAR

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

Senior Credit Hours = 30

Total Credit Hours = 129

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)

A grade of "C" or better is required in all major department (EECE) and engineering courses that are used toward the degree. A minimum of 2.0 cumulative average (Major GPA) is required on all hours attempted in the major department (EECE) and engineering courses that apply toward the degree. Students are responsible for completing all course prerequisites before enrolling in a course.

Effective summer 2016