

ELECTRICAL ENGINEERING

CODE: 4280 (141001-01)

Bachelor of Science in Electrical Engineering

Catalog: 2018-2019

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			3
		<u>16</u>							<u>17</u>

Freshman Credit Hours = 33

SOPHOMORE YEAR

<u>First Semester</u> Credit					<u>Second Semester</u> Credit				
CMPS 260	Data Struc/ Sftware 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			3
		<u>18</u>							<u>18</u>

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
		<u>15</u>			EECE	(Elective Lab) 2			1
									<u>15</u>

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			3
Elective	Behav Sci Elective 3	3							<u>13</u>
		<u>15</u>							

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.