

## ELECTRICAL ENGINEERING

CODE: 4280 (141001-01) Bachelor of Science in Electrical Engineering

Students with ACT score of 30 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 scores between 26-29 may take the advanced placement test given by the math department. Those who do not meet these qualifications must take Mathematics 109, Algebra, and Mathematics 110, Trigonometry, and are advised to complete these courses in the summer semester prior to the freshman year.

### Freshman Year

First Semester	Credit	Second Semester	Credit
EECE 140 Computer Engr .....	3	CMPS 150 Intro to Cmps.....	3
ENGL 101 Rhet and Comp .....	3	ENGL 102 Comp and Lit.....	3
MATH 270 Calculus I .....	4	MATH 301 Calculus II .....	4
Elective (ARTS) <sup>1</sup> .....	3	PHYS 201 General Physics I .....	4
Elective (HIST) <sup>2</sup> .....	3	Elective (BIO SCI) <sup>2</sup> .....	3
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	16		17

### Sophomore Year

CMPS 260 Data Struc/Software Design .	3	EECE 260 PC Applications Lab .....	1
EECE 240 Digital Systems .....	3	EECE 356 Circuits & Signals II .....	4
EECE 355 Circuits & Signals I .....	4	MATH 302 Calculus III .....	4
MATH 350 Differential Equations .....	3	EECE 333 Telecom I .....	3
PHYS 202 General Physics II .....	4	STAT 425 Basic Theory	
	<hr style="width: 50%; margin: 0 auto;"/>	or	
	17	ENGR 311 Engr Data Anal .....	3
		ENGR 218 Statics & Dynamics .....	3
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			18

### Junior Year

EECE 335 Electronics I .....	3	EECE 353 Electronics II .....	4
EECE 344 Engr Electromag .....	3	EECE 461 Control Systems I .....	3
EECE 444 Circuits & Signals III .....	3	EECE 342 Microprocessors Lab .....	1
EECE 340 Microprocessors .....	3	ENGL 365 Technical Writing .....	3
EECE 452 Comm Engineering I .....	3	Elective (EECE) <sup>2</sup> .....	3
Elective (Sci Lab) <sup>2</sup> .....	1	Elective (EECE) <sup>2</sup> .....	3
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	16		17

### Senior Year

EECE 423 Seminar I .....	1	EECE 460 Design Lab II .....	1
EECE 442 Computer Control Lab .....	1	Elective (TECH) <sup>2</sup> .....	3
EECE 443 Design Lab I .....	2	Elective (LIT) <sup>1</sup> .....	3
ECON 300 Fund of Economics .....	3	ECON 430 Industrial Econ & Finance	3
Elective (EECE) <sup>2</sup> .....	3	PHIL 316 Professional Ethics .....	3
Elective (EECE) <sup>2</sup> .....	3		
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	13		13

<sup>1</sup>Must be chosen from the College of Engineering approved list. NOTE: Arts elective must be chosen from DANC, MUS, THEA, or VIAR.

<sup>2</sup>Requires approval of Department Head.

**ELECTRICAL ENGINEERING***Computer Engineering Option*

CODE: 4281 (140901-01) Bachelor of Science in Electrical Engineering

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## Freshman Year

First Semester		Credit	Second Semester		Credit
EECE 140	Computer Engr .....	3	CMPS 150	Intro to Cmps.....	3
ENGL 101	Rhet and Comp .....	3	ENGL 102	Comp and Lit.....	3
MATH 270	Calculus I .....	4	MATH 301	Calculus II .....	4
	Elective (ARTS) <sup>1</sup> .....	3	PHYS 201	Gen Phys I.....	4
	Elective (HIST) <sup>2</sup> .....	3		Elective (BIO SCI) <sup>2</sup> .....	3
		16			17

## Sophomore Year

CMPS 260	Data Struc/Software Design .	3	CMPS 261	Adv Data Struc/Softw Des	3
EECE 240	Digital Systems.....	3	EECE 260	PC Applications Lab.....	1
EECE 355	Circuits & Signals I .....	4	EECE 356	Circuits & Signals II .....	4
MATH 350	Differential Equations .....	3	EECE 340	Microprocessors .....	3
PHYS 202	Gen Phys II.....	4	ENGR 218	Statics & Dynamics .....	3
		17	MATH 302	Calculus III .....	4
					18

## Junior Year

EECE 335	Electronics I.....	3	ECON 300	Fund of Economics .....	3
EECE 344	Engr Electromag.....	3	EECE 353	Electronics II.....	4
EECE 342	Microprocessors Lab .....	1	EECE 459	Comp Hdwr Des .....	3
EECE 444	Circuits & Signals III .....	3	EECE 461	Control Systems I.....	3
ENGL 365	Technical Writing.....	3	PHIL 316	Professional Ethics.....	3
STAT 425	Basic Theory			Elective (SCI LAB) <sup>2</sup> .....	1
or					
ENGR 311	Engr Data Anal.....	3			17
		16			

## Senior Year

EECE 413	Comp Comm .....	3	CMPS 455	Oper Systems.....	3
EECE 423	Seminar I.....	1	ECON 430	Industrial Econ & Finance	3
EECE 442	Computer Control Lab .....	1	EECE 460	Design Lab II .....	1
EECE 443	Design Lab I .....	2	EECE 479	Computer Control .....	3
EECE 451	Digital Electronics.....	3		Elective (COMP) <sup>2</sup> .....	3
	Elective (LIT) <sup>1</sup> .....	3			13
		13			

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<sup>2</sup>Requires approval of Department Head.

**ELECTRICAL ENGINEERING***Telecommunications Option*

CODE: 4283 (141001-02) Bachelor of Science in Electrical Engineering

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## Freshman Year

First Semester		Credit	Second Semester		Credit		
EECE	140	Computer Engr	3	CMPS	150	Intro to Cmps	3
ENGL	101	Rhet and Comp	3	ENGL	102	Comp and Lit	3
MATH	270	Calculus I	4	MATH	301	Calculus II	4
		Elective (HIST) <sup>2</sup>	3	PHYS	201	Gen Phys I	4
		Elective (ARTS) <sup>1</sup>	3			Elective (BIOL SCI) <sup>2</sup>	3
			16				17

## Sophomore Year

CMPS	260	Data Struc/Software Design	3	EECE	260	PC Applications Lab	1
EECE	240	Digital Systems	3	EECE	333	Telecommunications I	3
EECE	355	Circuits & Signals I	4	EECE	356	Circuits & Signals II	4
MATH	350	Differential Equations	3	ENGR	218	Statics & Dynamics	3
PHYS	202	Gen Phys II	4	MATH	302	Calculus III	4
			17	STAT	425	Basic Theory	
				ENGR	311	Engr Data Analysis	3
							18

## Junior Year

EECE	335	Electronics I	3	ECON	300	Fund of Economics	3
EECE	344	Engr Electromag	3	EECE	353	Electronics II	4
EECE	444	Circuits & Signals III	3	EECE	434	Data Communications	3
EECE	452	Comm Engr I	3	EECE	340	Microprocessors	3
FNAN	250	Fnan Principles & Appl	3	EECE	458	Comm Engr II	3
							16
			16				

## Senior Year

BSAT	455	Mgmt in Tech Org	3	ECON	430	Industrial Econ & Finance	3
EECE	423	Seminar I	1	EECE	428	Transmission Media	3
EECE	435	Telecommunications II		EECE	460	Design Lab II	1
		or		PHIL	316	Professional Ethics	3
EECE	466	Comm Networks	3				13
EECE	443	Design Lab I	2				
EECE	461	Control Systems	3				15
ENGL	365	Technical Writing	3				
			15				

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<sup>2</sup>Requires approval of Department Head.