

**Bachelor of Science in Electrical Engineering
2024-2025**

Freshman Year

Fall Semester Hours		Spring Semester Hours	
ENG 1003 Composition I	3	ENG 1013 Composition II	3
SCOM 1203 Oral Communications	3	PHYS 2044 University Physics II	4
PHYS 2034 University Physics I	4	ENGR 1412 Software Applications for Engineers	2
ENGR 1402 Concepts of Engineering	2	ENGR 2421 Electric Circuits I Lab	1
MATH 2204 Calculus I	4	ENGR 2423 Electric Circuits I	3
		MATH 2214 Calculus II	4
	<hr/> 16		<hr/> 17

Sophomore Year

Fall Semester Hours		Spring Semester Hours	
EE 2322 Electrical Workshop	2	CS 2114 Structured Programming	4
ENGR 2401 Applied Engineering Statistics	1	EE 3313 Electric Circuits II	3
ENGR 2403 Statics	3	EE 3333 Digital Electronics I	3
MATH 3254 Calculus III	4	EE 3331 Digital Electronics Lab	1
CHEM 1011 General Chemistry I Lab	1	MATH 4403 Differential Equations	3
CHEM 1013 General Chemistry I	3	ENGR 3443 Engineering Thermodynamics I	3
+++ Humanities Elective	3		
	<hr/> 17		<hr/> 17

Junior Year

Fall Semester Hours		Spring Semester Hours	
EE 3343 Engineering Fields & Waves	3	EE 3393 Probability and Random Signals	3
EE 3353 Signals and Systems	3	EE 3383 Principles and Practices in Electrical Engr.	3
EE 3363 Semiconductor Materials and Devices	3	ENGR 3433 Engineering Economics	3
EE 3401 Electronics I Lab	1	EE 4373 Electronics II	3
EE 3403 Electronics I	3	EE 4773 Electronics II Lab	3
ENGR 4453 Num. Methods for Engineers	3		
	<hr/> 17		<hr/> 15

Senior Year

Fall Semester Hours		Spring Semester Hours	
EE 4313 Control Systems	3	++ EE Elective	3
EE 4353 Power Systems	3	++ EE Elective	3
ENGR 4463 Senior Design I	3	ENGR 4482, Senior Design II	2
ENGR 4401 Senior Seminar	1	EE 4333 Communications Theory	3
+++Social Science Elective	3	+++Fine Arts Elective	3
+Technical Elective	3		
	<hr/> 16		<hr/> 14

TOTAL HOURS: 128

General Education Curriculum for Engineering Baccalaureate Degrees

	Semester Hours
Communication	9
ENG 1003, Freshman English I ENG 1013, Freshman English II SCOM 1203, Oral Communications	
Mathematics.....	4
MATH 2204, Calculus I	
Arts and Humanities.....	6
Fine Arts. Select one of the following: Humanities. Select one of the following:	
MUS 2503, Fine Arts Musical ENG 2003, World Literature to 1660	
THEA 2503, Fine Arts Theater ENG 2013, World Literature since 1660	
ART 2503, Fine Arts Visual PHIL 1103, Introduction to Philosophy	
Social Sciences.....	11
Select one of the following:	
HIST 2763, The United States to 1876	
HIST 2773, The United States since 1876	
POSC 2103, Introduction to United States Government	
Substitution of Higher Math (8hrs required): MATH 2214, Calculus II AND MATH 3254, Calculus III	
Science	8
CHEM 1013, General Chemistry I, and CHEM 1011, Laboratory for General Chemistry I	
PHYS 2034, University Physics I	

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Other rules: A course may be counted in satisfaction of only one area requirement. With the exception of English courses (ENG), no more than two selections may have the same prefix.

Additional required support courses:

MATH 4403, Differential Equations	3
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Engineering Core Courses:

ENGR 1402, Concepts of Engineering	2
ENGR 1412, Software Applications for Engineers.....	2
ENGR 2401, Applied Engineering Statistics.....	1
ENGR 2403, Statics.....	3
ENGR 3433, Engineering Economics.....	3
ENGR 4401 Senior Engineering Seminar.....	1
ENGR 4453, Numerical Methods for Engineers.....	3
ENGR 4463, Senior Design I.....	3
ENGR 4482, Senior Design II.....	2

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Electrical Engineering Major Courses:

PHYS 2044, University Physics II.....	4
ENGR 2423 and ENGR 2421, Electric Circuits I and Laboratory for Electric Circuits	4
ENGR 3443, Engineering Thermodynamics.....	3
CS 2114 Structured Programming.....	4
EE 2322, Electrical Workshop	2
EE 3313, Electric Circuits II	3
EE 3331, Digital Electronics I Lab.....	1
EE 3333, Digital Electronics I.....	3
EE 3343, Engineering Fields and Waves	3
EE 3353, Signals and Systems.....	3
EE 3363, Semiconductor Materials and Devices.....	3
EE 3393, Probability and Random Signals.....	3
EE 3383, Principles and Practices in Electrical Engineering.....	3
EE 3401, Laboratory for Electronics I	1
EE 3403, Electronics I.....	3
EE 4333, Communications Theory.....	3
EE 4313, Control Systems.....	3
EE 4353, Power Systems.....	3
EE 4373, Electronics II.....	3
EE 4773, Electronics II Laboratory.....	3
+ Approved Technical Electives.....	3
++ Electrical Engineering Electives.....	6

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Total Hours: 128

+ Upper level engineering, math, or science course. Advisor approval required.

++Upper level electrical engineering or computer science courses.

+++See General Education Requirements for Electrical Engineering.