

Bachelor of Science in Electrical Engineering 2025-2026

Freshman Year

Fall Semester Hours

ENG 1003 Composition I	3
SCOM 1203 Oral Communications	3
PHYS 2034 University Physics I	4
ENGR 1402 Concepts of Engineering	2
MATH 2204 Calculus I	4
	16

Spring Semester Hours

ENG 1013 Composition II	3
PHYS 2044 University Physics II	4
ENGR 1412 Software Applications for Engineers	2
ENGR 2421 Electric Circuits I Lab	1
ENGR 2423 Electric Circuits I	3
MATH 2214 Calculus II	4
	17

Sophomore Year

Fall Semester Hours

EE 2322 Electrical Workshop	2
ENGR 2401 Applied Engineering Statistics	1
ENGR 2403 Statics	3
MATH 3254 Calculus III	4
CHEM 1011 General Chemistry I Lab	1
CHEM 1013 General Chemistry I	3
+++ Humanities Elective	3
	17

Spring Semester Hours

CS 2114 Structured Programming	4
EE 3313 Electric Circuits II	3
EE 3333 Digital Electronics I	3
EE 3331 Digital Electronics Lab	1
MATH 4403 Differential Equations	3
ENGR 3443 Engineering Thermodynamics I	3
	17

Junior Year

Fall Semester Hours

EE 3343 Engineering Fields & Waves	3
EE 3353 Signals and Systems	3
EE 3363 Semiconductor Materials and Devices	3
EE 3401 Electronics I Lab	1
EE 3403 Electronics I	3
ENGR 4453 Num. Methods for Engineers	3
	17

Spring Semester Hours

EE 3393 Probability and Random Signals	3
EE 3383 Principles and Practices in Electrical Engr.	3
ENGR 3433 Engineering Economics	3
EE 4373 Electronics II	3
EE 4773 Electronics II Lab	3
	15

Senior Year

Fall Semester Hours

EE 4313 Control Systems	3
EE 4353 Power Systems	3
ENGR 4463 Senior Design I	3
ENGR 4401 Senior Seminar	1
+++Social Science Elective	3
+Technical Elective	3
	16

Spring Semester Hours

++ EE Elective	3
++ EE Elective	3
ENGR 4482, Senior Design II	2
EE 4333 Communications Theory	3
+++Fine Arts Elective	3
	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.