



Electrical Engineering

Recommended Semester Course Schedules for the Electrical Engineering (B.S.E.E.) Degree 2025-2026

Freshman Fall		Freshman Spring	
MAT 121 Calculus I	3 hrs.	MAT 122 Calculus II	3 hrs.
CHE 141 General Inorganic Chemistry I	4 hrs.	MAT 213 Linear Algebra	3 hrs.
ECE 101 Introduction to Electrical Engineering	2 hrs.	PHY 251 Fundamentals of Physics I	4 hrs.
ENG 101 English Composition I	3 hrs.	ENG 099 Writing Proficiency Exam	0 hrs.
University Core ¹	4 hrs.	ENG 102 English Composition II	3 hrs.
		University Core ¹	4 hrs.
<i>Semester Total:</i>		<i>Semester Total:</i>	<i>17 hrs.</i>
Sophomore Fall		Sophomore Spring	
MAT 221 Calculus III	3 hrs.	MAT 222 Calculus IV	3 hrs.
CSC 105 C for Scientists and Engineers	3 hrs.	CSC/ESC/PHY Elective ²	3 hrs.
PHY 252 Fundamentals of Physics II	4 hrs.	ECE 301 Electrical Circuits	4 hrs.
ECE 201 Logic Design	3 hrs.	ECE 302 Electrical Circuits Lab	1 hr.
ECE 202 Logic Design Lab	1 hr.	ECO 231 Economic Principles I	3 hrs.
University Core ¹	3 hrs.	University Core ¹	3 hrs.
<i>Semester Total:</i>		<i>Semester Total:</i>	<i>17 hrs.</i>
Junior Fall		Junior Spring	
MAT 352 Differential Equations	3 hrs.	MAT 353 Probability and Statistics	3 hrs.
ECE 305 Electronics I	3 hrs.	ECE 315 Electronics II	3 hrs.
ECE 306 Electronics I Lab	1 hr.	ECE 316 Electronics II Lab	1 hr.
ECE 320 Microprocessors & Microcontrollers	3 hrs.	ECE 326 Electromagnetic Theory II	3 hrs.
ECE 321 Microprocessors & Microcontrollers Lab	1 hr.	ECE 330 Signals and Systems	3 hrs.
ECE 325 Electromagnetic Theory I	3 hrs.	University Core ¹	3 hrs.
General Elective ³	3 hrs.		
<i>Semester Total:</i>		<i>Semester Total:</i>	<i>16 hrs.</i>
Senior Fall		Senior Spring	
ECE 405 Feedback Control Systems	3 hrs.	ECE 099 Professional Development	0 hrs.
ECE 451 Senior Design I ⁴	2 hrs.	ECE 401 Electric Machines	3 hrs.
ECE Elective ⁵	3 hrs.	ECE 421 Communications Systems	3 hrs.
ECE Elective ⁵	3 hrs.	ECE 452 Senior Design II ⁴	2 hrs.
University Core ¹	3 hrs.	ECE Elective ⁵	3 hrs.
General Elective ³	2 hrs.	ECE 490 Service Learning	0 hrs.
		ESC 315 Thermodynamics	3 hrs.
<i>Semester Total:</i>		<i>Semester Total:</i>	<i>14 hrs.</i>

¹University Core denotes the following courses:

- Three hours of English Literature chosen from ENG 211, ENG 212, or ENG 213
- Six hours of History chosen from HIS 103-104 or HIS 211-212
- Six hours of Bible (BIB 110 or 111 and BIB 120 or 121)
- Three hours of Fine Arts chosen from ART 125, MUS 125, or THE 125
- Two hours of Physical Education chosen from KIN 123, KIN 124, and/or any PED course
- Students are also required to complete Chapel requirements based on their classification at the time of enrollment.

²CSC/ESC/PHY Elective can be chosen from CSC 205, ESC 205, ESC 311, or PHY 313.

³General Electives can be any course in the university catalog

⁴Can substitute ECE 451 with ECE 5453 and ECE 452 with ECE 5454

⁵ECE Electives can be chosen from any 400-level ECE course with the exception of ECE 401, 405, 421, 451, and 452. At least one must be chosen from ECE 431, 433, or 435.

The above semester schedules are projections and are subject to change based on individual semester course offerings. The plans are intended to be used as a guide and an advising tool for students in conjunction with their curriculum checklists and online degree evaluations. Students must regularly consult with academic advisers as they plan their course schedules. Refer to the University Catalog for course descriptions and prerequisites.