



**Recommended Semester Course Schedules for the
Electrical Engineering (B.S.E.E.) Degree
2021-2022**



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 102 English Composition II	3 hrs.
University Core ¹	6 hrs.	University Core ¹	4 hrs.
<i>Semester Total:</i>	<i>18 hrs.</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.	ESC 205 Computational Tools for Engineers 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>17 hrs.</i>	<i>Semester Total:</i>	<i>17 hrs.</i>
Junior Fall		Junior Spring	
MAT 352 Differential Equations	3 hrs.	ECE 315 Electronics II	3 hrs.
ECE 305 Electronics I	3 hrs.	ECE 316 Electronics II Lab	1 hr.
ECE 306 Electronics I Lab	1 hr.	ECE 326 Electromagnetic Theory II	3 hrs.
ECE 320 Microprocessors & Microcontrollers	3 hrs.	ECE 330 Signals and Systems	3 hrs.
ECE 321 Microprocessors & Microcontrollers Lab	1 hr.	ESC 315 Thermodynamics	3 hrs.
ECE 325 Electromagnetic Theory I	3 hrs.	General Elective ³	2 hrs.
General Elective ³	3 hrs.		
<i>Semester Total:</i>	<i>17 hrs.</i>	<i>Semester Total:</i>	<i>15 hrs.</i>
Senior Fall		Senior Spring	
MAT 353 Probability and Statistics	3 hrs.	ECE 421 Communications Systems	3 hrs.
ECE 401 Electric Machines	3 hrs.	ECE 452 Senior Design II	2 hrs.
ECE 451 Senior Design I	2 hrs.	ECE Elective ⁴	3 hrs.
ECE Elective ⁴	3 hrs.	ECE Elective ⁴	3 hrs.
ESC 311 Statics	3 hrs.	University Core ¹	4 hrs.
<i>Semester Total:</i>	<i>14 hrs.</i>	<i>Semester Total:</i>	<i>15 hrs.</i>

¹University Core Curriculum courses include the following:

- 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 and BIB 120)
- 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
- Four semesters of Chapel

²Can also choose CSC 205 Data Structures for Engineers or PHY 313 Optics

³Choose any course in the university catalog

⁴Choose any 400-level ECE course with the exception of ECE 401, 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.