

**BSEE Electrical & Electronics Engineering
Fall 2018**

This document is an example of a BSEE program of study. Several factors can affect the course scheduling sequence. For a copy of the official curriculum, please go to the UGA Bulletin: <http://bulletin.uga.edu/>

Major Requirements

Students must earn a grade of "C" (2.0) or better in the courses indicated in **bold**.

High Demand Entrance Requirements

To be considered as a candidate for BSEE, students must complete the courses indicated in *italics*. For more information on entrance requirements, please refer to the UGA Bulletin: <http://bulletin.uga.edu/> and our website.

YEAR ONE

<u>Fall Semester</u>		<u>Hours</u>	<u>Spring Semester</u>		<u>Hours</u>
MATH 2250	<i>Calculus I</i>	4	MATH 2260	<i>Calculus II</i>	4
PHYS 1251	<i>Physics for Engineers I</i>	3	PHYS 1252	<i>Physics for Engineers II</i>	3
ELEE 1030	<i>Intro to Electrical Engineering</i>	3	CSEE 2220	<i>Fundamentals of Logic Design</i>	3
ENGL 1101	<i>English Composition I</i>	3	ENGL 1102	<i>English Composition II</i>	3
	<i>Life Science Elective*</i>	3		<i>World Lang & Culture Elective</i>	3
FYOS	<i>First-Year Odyssey</i>	1			
Total Credit Hours		17	Total Credit Hours		16

YEAR TWO

<u>Fall Semester</u>		<u>Hours</u>	<u>Spring Semester</u>		<u>Hours</u>
MATH 2700	<i>Differential Equations</i>	3	MATH 2500	<i>Multivariable Calculus</i>	3
ENGR 2170	<i>Electrical Circuits</i>	3	ENGR 2120	<i>Statics</i>	3
ELEE 2040	<i>Programming for Electrical Engrs</i>	3	ENGR 2110	<i>Engineering Decision Making</i>	3
COMM 1110	<i>Intro to Public Speaking</i>	3	ELEE 3270	<i>Electronics I</i>	3
CHEM 1211&L	<i>Freshman Chemistry I</i>	4		<i>Social Sciences Elective</i>	3
Total Credit Hours		16	Total Credit Hours		15

YEAR THREE

<u>Fall Semester</u>		<u>Hours</u>	<u>Spring Semester</u>		<u>Hours</u>
ELEE 4210	<i>Linear Systems</i>	3	CSEE 4210	<i>Digital Signal Processing</i>	3
ELEE 4270	<i>Electronics II</i>	3	ELEE 4220	<i>Feedback Control Systems</i>	3
ENGR 2090	<i>Probability & Statistics for Engineers</i>	3	ELEE 4240	<i>Microcontrollers</i>	3
ELEE 4230	<i>Sensors & Transducers</i>	3	ELEE 3020	<i>Electrical Engineering Design Lab</i>	2
ELEE 4020	<i>Electromagnetics</i>	3	ELEE 4710	<i>Fundamentals of Power Engineering</i>	3
				<i>Social Sciences Elective</i>	3
Total Credit Hours		15	Total Credit Hours		17

YEAR FOUR

<u>Fall Semester</u>		<u>Hours</u>	<u>Spring Semester</u>		<u>Hours</u>
ELEE 4910	<i>EE Capstone Design I</i>	2	ELEE 4920	<i>EE Capstone Design II</i>	2
ELEE 4750	<i>Power System Analysis</i>	3	ELEE 4590	<i>Principles of Communication Systems</i>	3
ENGR 3140	<i>Thermodynamics I</i>	3		<i>EE Elective</i>	3
	<i>EE Elective</i>	3		<i>EE Elective</i>	3
	<i>Major-Related Elective**</i>	3		<i>Social Sciences Elective</i>	3
	<i>World Lang & Culture Elective</i>	3		<i>World Lang & Culture Elective</i>	3
Total Credit Hours		17	Total Credit Hours		17

*Life Science Elective: Select from BIOL 1103 or BIOL 1104 or BIOL 1107&L or BIOL 1108&L.

**Major-Related Elective: Select a course from another discipline or Engineering major. Course must be at the 3000-level or higher. Courses may either be chosen from an approved list or require approval by the ECE School Chair. CURO research may also count. For complete information on these options, please go to the UGA Bulletin: <http://bulletin.uga.edu/>

Electrical & Electronics Engineering Electives

Choose three (3) courses from the following list:

CSEE 4240	Wireless Sensor Networks
CSEE 4270	Design of Digital Systems
CSEE 4320	Mechatronics
CSEE 4530/6530	Intro to Optical Engineering
ELEE 4040	Communications Electromagnetics
ELEE 4145	Principles of Laser and Photonics
ELEE 4275	Advanced Control Systems
ELEE 4545	Engineering Entrepreneurship
ELEE 4250/6250	Advanced Microcontrollers
ELEE 4260/6260	Intro to Nanoelectronics
CSEE 4620/6620	Biomedical Imaging
CSEE 4750	Programming for Computational and Systems Biology