

BSEE Electrical & Electronics Engineering Fall 2023

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
ECSE 1100	<i>Intro to ECSE</i>	3	CSEE 2220	<i>Fundamentals of Logic Design</i>	3
ENGL 1101	<i>English Composition I</i>	3	ENGL 1102	English Composition II	3
	Life Science Elective*	3		World Lang & Culture Elective	3
FYOS	First-Year Odyssey	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
ECSE 2170+L	<i>Fundamentals of Circuit Analysis</i>	3	ECSE 2920	ECSE Design Methodology	3
ELEE 2040	<i>Programming for Electrical Engrs</i>	3	ELEE 2045	Programming Applications for EE	2
COMM 1110	Intro to Public Speaking	3	ENGR 2090	Probability & Statistics for Engrs	3
CHEM 1211&L	Freshman Chemistry I	4	ELEE 3270	Electronics I	3
				Social Sciences Elective	3
Total Credit Hours		16	Total Credit Hours		17

YEAR THREE

<u>Fall Semester</u>		<u>Hours</u>	<u>Spring Semester</u>		<u>Hours</u>
ELEE 4210	Linear Systems	3	CSEE 4210	Digital Signal Processing	3
ELEE 4270	Electronics II	3	ELEE 4220	Feedback Control Systems	3
ENGR 2110	Engineering Decision Making	3	ECSE 4230	Embedded Systems Design I	3
ELEE 4230	Sensors & Transducers	3	ELEE 4710	Fundamentals of Power Engineering	3
ELEE 4020	Electromagnetics	3		Social Sciences Elective	3
Total Credit Hours		15	Total Credit Hours		15

YEAR FOUR

<u>Fall Semester</u>		<u>Hours</u>	<u>Spring Semester</u>		<u>Hours</u>
ELEE 4910	EE Capstone Design I	2	ELEE 4911	EE Capstone Design II	2
ELEE 4750	Power System Analysis	3	ELEE 4590	Principles of Communication Systems	3
ENGR 3140	Thermodynamics I	3		EE Elective	3
	EE Elective	3		EE Elective	3
	EE Elective	3		Social Sciences Elective	3
	World Lang & Culture Elective	3		World Lang & Culture Elective	3
Total Credit Hours		17	Total Credit Hours		17

*Life Science Elective: For complete information on these options, please go to the UGA Bulletin: <http://bulletin.uga.edu/GenEdCoreBulletin.aspx>. This should also meet the Environmental Literacy University Requirement.

Electrical and Electronics Engineering Electives

Choose at least four elective courses. At least one must be a 3000-level course or above from the CSEE, ECSE, ELEE, or INFO prefixes. The remaining courses should be 3000-level or above from

the AENG, ARTI, ASTR, BCHE, BCMB, BINF, BIOE, BIOS, CBIO, CHEM, CSCI, CSEE, CURO, CVLE, ECOL, ECSE, ELEE, ENTO, ENVE, GENE, GEOL, GISC, INF O, MATH, MCHE, MIBO, MIST, PBIO, PHYS, or STAT prefixes.