BSEE Electrical & Electronics Engineering Fall 2024

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: https://engineering.uga.edu/.

YEAR ONE					
Fall Semester		Hours	Spring Semester		Hours
MATH 2250	Calculus I	4	MATH 2260	Calculus II	4
PHYS 1251	Physics for Engineers I	3	PHYS 1252	Physics for Engineers II	3
ECSE 1100	Intro to ECSE	3	CSEE 2220	Fundamentals of Logic Design	3
ENGL 1101	English Composition I	3	ENGL 1102	English Composition II	3
	Life Science Elective*	3		World Lang & Culture Elective	3
FYOS	First-Year Odyssey	1		5 1 6 1 1 1 1 1 1 1	
Total Credit Hou		17	Total Credit Hours		16
YEAR TWO					
Fall Semester		<u>Hours</u>	Spring Semester		<u>Hours</u>
MATH 2700	Differential Equations	3	MATH 2500	Multivariable Calculus	3
ECSE 2170+L	Fundamentals of Circuit Analysis	3	ECSE 2920	ECSE Design Methodology	3
INFO 2000	Experiential Data Science Spec. 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					
Fall Semester		<u>Hours</u>	Spring Semester		Hours
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					
Fall Semester		<u>Hours</u>	Spring Semester		<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		Major Elective	3
	Major Elective	3		Major Elective	3
	Major Elective	3		Social Sciences Elective	3
	World Lang & Culture Elective	3		World Lang & Culture Elective	3
Total Credit Hours		17	Total Credit Hours	i e	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 https://bulletin.uga.edu/GenEdCoreBulletin.aspx.

Major Electives: Choose at least four elective courses numbered 3000-4949 and comprising 12 or more credit hours. At least one must be a course from the CSEE, ECSE, ELEE, or INFO prefixes. The remaining can be courses from the AENG, AERO, ARTI, ASTR, BCHE, BCMB, BINF, BIOE, BIOS, CBIO, CHEM, CSCI, CSEE, CURO, CYLE, ECOL, ECSE, ELEE, ENGR, ENTO, ENVE, GENE, GEOL, GISC, INFO, MATH, MCHE, MIBO, MIST, PBIO, PHYS, or STAT prefixes. Research credits and internship/co-op credits are not "courses" for this purpose, and are treated differently: Refer to the Bulletin or speak to your advisor.