

BSEE Program - 2024-2025

1st Semester	2nd Semester	3rd Semester	4th Semester	5th Semester	6th Semester	7th Semester	8th Semester
MA125 ³ (4) Calculus I	MA126 (4) Calculus II <MA125>	MA227 (4) Calculus III <MA126>	MA238 (3) Diff. Equations (MA227)	EE331 (3) Physical Electronics <CH131> <PH202, MA238>	EE334 (3) Digital Electronics <EE223, EE331>	EE431 (3) Analog Electronics <EE227, EE334>	EE437 (1) Electronics Lab <EE334> (EE431)
CH131 ³ (4) Chemistry I	PH201 (4) Physics I (cal based) <MA125, EH101> (MA126)	PH202 (4) Physics II (cal based) <PH201, MA126> <EH101>	EE223 (3) Network Analysis <EE220, PH202> (MA227, MA238)	EE321 (3) Signals & Systems <EE223, MA238>	EE328 (3) Feedbk Control Sys. <EE321>	EE401* (1) W Intro to ECE Design <CA110, EE321> (EE334, EE368)	EE404** (3) W ECE Design <EE328, EE334> <EE368, EE401>
EH101 ³ (3) Composition I	EH102 ³ (3) Composition II <EH101>	EE220 (3) Circuit Analysis <MA125, PH201>	MA237 (3) Linear Algebra I <MA126>	EE227 (1) Circuits and Dev Lab (EE223, EH102)	EE322 (3) Prob. & Stat. Anal. <MA238> (EE321)	EE465 (3) Digital Signal Proc. <EE321, EE322>	EE4XX (3) Tech Elective
EG101 ⁴ (2) Intro to Engineer. (MA113 or MA125)	CPE260 (3) Intro. to C++ (MA125)	EE263 (3) Digital Logic <CPE260>	EE268 (1) Digital Logic Lab <EE263 or CSC228>	EE368 (1) Microproc. Lab <EE268>, (EE264)	EE372 (3) Communications <EE321>, (EE322)	EE4XX (3) Tech Elective	EE4XX (3) Tech Elective
General Ed (3) L/H/FA or H/SBS	CA110 (3) Public Speaking	General Ed (3) L/H/FA or H/SBS	EE264 (3) Microproc. <EE263 or CSC228>	EE381 (3) Electrom. Conv. <EE223>	EE385 (1) Energy Conv. Lab <EE381, EE227>	EE4XXL (1) Tech Elective Lab	General Ed (3) L/H/FA or H/SBS
			EG270 (3) Thermodynamics <MA126, PH201>	EE354 (3) Electromag. I <MA237, MA238> <PH202>	EE355** (3) Electromag. II <EE354>	EG231 (3) Ethics & Eng Econ <MA126>	
				General Ed (3) L/H/FA or H/SBS		General Ed (3) L/H/FA or H/SBS	

Revised: Spring 2024

* EE Courses only taught in the fall semester

** EE Courses only taught in the spring semester

³ May require minimum ACT, placement test, or remedial prerequisites.

⁴ Students transferring 15 or more cr-hr may not be required to take EG101

< > indicates prerequisite courses; () indicates corequisite courses

Courses in shaded boxes indicate PCS course: C-grade or higher required

No 300 level courses can be taken without PCS

16 cr-hr

17 cr-hr

17 cr-hr

16 cr-hr

17 cr-hr

16 cr-hr

17 cr-hr

13 cr-hr

General Education Requirements			
All students are required to take EH 101 and EH 102, English Composition I and II, plus 18 hours of general education courses.			
Literature, Humanities and Fine Arts: 9 hrs total		History, Social Sciences, and Behavioral Sciences: 9 hrs total	
L/H/FA		H/SBS	
Literature - 3 hrs required		History -3 hrs required	
EH 215, 216	British Literature	HY 101, 102	History of Civilization
EH 225, 226	American Literature	HY 135, 136	US History
EH 235, 236	World Literature		
Fine Arts - 3 hrs required		Social and Behavioral Sciences - 3 hrs required	
ARH 100	Survey of Art	GS 101	Gender Studies
ARH 103, 123	Art History	IST 201	Seasons of Life
ARS 101	Art Appreciation	AN 100, 101	Anthropology
DRA 110	Intro to Drama	CA 100, 211	Communications
MUL 101	Intro to Music	ECO 215, 216	Economics
		GEO 114, 115	Geography
		PSC 130	US Government
		PSY 120, 250, 121	Psychology
		SY 109, 112	Sociology
		IS 100	Global Issues
Humanities - 3 hrs required		* EE Program requires CA 110	
AFR 101	African American Studies		
AIS 105	Encounter with the Human		
CA 110 *	Public Speaking *		
LG 111, 112, 211, 212	French		
LG 131, 132, 231, 232	Spanish		
LG 171, 172, 271, 272	Russian		
LG 151, 152, 251, 252	German		
LGS 101, 102 201, 202	Japanese		
LGS 106, 107, 206, 207	Arabic		
LGS 121, 122, 221, 222	Chinese		
LGS 141, 142 241, 242	Greek		
PHL 110, 121, 131, 231, 240	Philosophy		

Student Responsibility: The University of South Alabama will endeavor to provide timely and accurate advising. However, students are ultimately responsible for selecting and registering for courses, meeting course pre-requisites and graduation requirements, and adhering to University policies and procedures.

BSEE Elective Requirements			
Three EE technical electives are required and must include a two-course concentration from the following concentration areas:			
Concentration area		Two courses required in one concentration area	
Control Systems:		EE438, EE 468	
Communications and Electromagnetics:		EE 441, EE 453, EE 455, EE 456	
Digital Systems:		EE 438, EE 440*, EE 441, EE 443*, EE 454, EE 457, EE 468, EE 469	
Power Systems:		EE 481, EE 483, EE 484, EE 486, EE 489	
Courses			
EE 438	Virtual Instrumentation		
EE 440*	HDL Logic Synthesis		
EE 441	Computer Networks		
EE 443*	HDL Logic Simulation		
EE 453	Antenna Theory and Design		
EE 454	Digital Computer Architecture		
EE 455	Optoelectronics		
EE 456	Fiber Optic Communication Sys		
EE 457	Embedded System Design		
EE 465	Digital Signal Processing		
EE 468	Programmable Logic Controllers		
EE 469	Signal Integrity		
EE 481	Electrical Machines		
EE 483	Power Systems I		
EE 484	Power Systems II		
EE 486	Power Electronics		
EE 489	Renewable Energy		
* Credit for both EE 440 & EE 443 not allowed			
Senior Lab -May be selected from			
EE 446	Embedded System Design Lab		
EE 447	Programmable Logic Devices Lab		
EE 449	Control and Communications Lab		