

BSEE Program - 2025-2026

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 ^C >	MA227 (4) Calculus III <MA126 ^C >	MA238 (3) Diff. Equations (MA227 ^C)	EE331 (3) Physical Electronics <CH131 ^C , PH202 ^C > <MA238 ^C , EE220 ^C >	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 ^C , EH101 ^C > (MA126)	PH202 (4) Physics II (cal based) <PH201, MA126 ^C > <EH101 ^C >	EE223 (3) Network Analysis <EE220 ^C , PH202 ^C > (MA227 ^C , MA238 ^C)	EE321 (3) Signals & Systems <EE223, MA238 ^C >	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 ^C >	EE220 (3) Circuit Analysis <MA125 ^C , PH201 ^C >	MA237 (3) Linear Algebra I <MA126 ^C >	EE227 (1) Circuits and Dev Lab <EH102 ^C > (EE223)	EE322** (3) Prob. & Stat. Anal. <MA238 ^C > (EE321)	EE465* (3) Digital Signal Proc. <EE321 ^C , EE322>	EE4XX (3) Tech Elective
EG101 ⁴ (2) Intro to Engineer. (MA113 or MA125 ^C)	CPE260 (3) Intro. to C++ (MA125 ^C)	EE263 (3) Digital Logic <CPE260 ^C >	EE268 (1) Digital Logic Lab <EE263 ^C or CSC228 ^C > <EH102 ^C >	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 ^C or CSC228 ^C > <EE220 ^C >	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 ^C , PH201 ^C >	EE354* (3) Electromag. I <MA237 ^C , MA238 ^C > <PH202 ^C , EE220 ^C >	EE355** (3) Electromag. II <EE354>	EG231 (3) Ethics & Eng Econ <MA126 ^C >	
				General Ed (3) L/H/FA or H/SBS		General Ed (3) L/H/FA or H/SBS	

Revised: 03/07/25

* 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

^C Prerequisite requires C or better

< > 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			
<u>Literature - 3 hrs required</u>		<u>History - 3 hrs required</u>			
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	<u>Social and Behavioral Sciences - 3 hrs required</u>			
<u>Fine Arts - 3 hrs required</u>					
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		
<u>Humanities - 3 hrs required</u>		GEO 114, 115	Geography		
		PSC 130	US Government		
		PSY 120, 250	Psychology		
AFR 101	African American Studies	SY 109, 112	Sociology		
AIS 105	Encounter with the Human	IS 100	Global Issues		
CA 110 *	Public Speaking *	* EE Program requires CA 110			
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:		EE 423, EE 438, EE 468		
Communications and Electromagnetics:		EE 441, EE 453, EE 455, EE 456		
Digital Systems:		EE 438, EE 440, EE 441, EE 454, EE 457, EE 468, EE 469		
Microelectronics:		EE 430, EE 432, EE 434, EE 439, EE 440, EE 455		
Power Systems:		EE 481, EE 483, EE 484, EE 486, EE 489		
Courses				
EE 423	Modern Control Theory		EE 468	Programmable Logic Controllers
EE 430	Power Semiconductor Dev		EE 469	Signal Integrity
EE 432	Microelectronic Devices		EE 481	Electrical Machines
EE 434	VLSI Design Systems		EE 483	Power Systems I
EE 438	Virtual Instrumentation		EE 484	Power Systems II
EE 439	VSLI Technology-Fabrication		EE 486	Power Electronics
EE 440	HDL Logic Synthesis		EE 489	Renewable Energy
EE 441	Computer Networks			
EE 453	Antenna Theory and Design	Fall		
EE 454	Digital Computer Architecture	Spring		
EE 455	Optoelectronics	Spring		
EE 456	Fiber Optic Communication Sys			
EE 457	Embedded System Design	Fall		
Senior Lab -May be selected from				
EE 446	Embedded System Design Lab			
EE 447	Field-Programmable Gate Array (FPGA) Lab			
EE 449	Controls Lab			
EE 468	Programmable Logic Controllers	Can be used as senior lab instead of senior elective		