

BSCpE 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>	EE4XX (1) Tech Elective Lab
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>	General Ed (3) L/H/FA or H/SBS	EE227 (1) Circuits and Dev Lab (EE223, EH102)	EE322 (3) Prob. & Stat. Anal. <MA238> (EE321)	EE/CSC4XX (3) Tech Elective	EE/CSC4XX (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)	EE457 (3) Embedded Systems <EE264, EE368>	EE454 (3) Digital Comp. Architecture <EE264, EE268>	EE/CSC4XX (3) Tech Elective
General Ed (3) L/H/FA or H/SBS	CA110 (3) Public Speaking	MA267 (3) Discrete Math Structures	EE264 (3) Microproc. <EE263 or CSC228>	EG231 (3) Ethics & Eng Econ <MA126>	EE446** (1) Embedded Sys Lab (EE457)	EE/CSC4XX (3) Tech Elective	General Ed (3) L/H/FA or H/SBS

Revised: Spring 2024

* EE Courses only taught in the fall semester

No 300 level courses can be taken without PCS

** 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

CSC231 (4) Intro to Data Structures & Algo. <CIS120 or CPE260>	CSC311 (3) Networking and Commun. <CSC231>	CSC322 (3) Operating Systems <CSC231>	General Ed (3) L/H/FA or H/SBS
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General Ed (3) L/H/FA or H/SBS

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>Fine Arts - 3 hrs required</u>		<u>Social and Behavioral Sciences - 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
		GEO 114, 115	Geography
<u>Humanities - 3 hrs required</u>		PSC 130	US Government
AFR 101	African American Studies	PSY 120, 250, 121	Psychology
AIS 105	Encounter with the Human	SY 109, 112	Sociology
CA 110 *	Public Speaking *	IS 100	Global Issues
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		

BSCpE Elective Requirements			
BSCpE students must select either the Hardware or the Software track for Technical elective courses			
Hardware Track		Software Track	
2 senior level EE or CSC courses.		1 senior level EE or CSC courses.	
2 senior level EE courses		CSC 331	Software Engineering Prin - W
EE Technical Electives		CSC 332	Adv Data Structures and Algs
EE 438	Virtual Instrumentation	CSC 333	Prog Language Theory
EE 439	VSLI Technology-Fabrication	CSC Technical Electives	
EE 440*	HDL Logic Synthesis	CSC 410	Compiler Design-Construction
EE 441	Computer Networks	CSC 411	Comm - Network Analysis
EE 443*	HDL Logic Simulation	CSC 412	Real-Time Software Systems
EE 444	Wireless Networks	CSC 413	Computer Graphics
EE 465	Digital Signal Processing	CSC 414	Modeling and Simulation
EE 468	Programmable Logic Controllers	CSC 415	Numerical Analysis
EE 469	Signal Integrity	CSC 416	AI Theory and Programming
EE 470	Synth Active-Passive Networks	CSC 417	Computer Game Development
EE 471	Wireless Communication	CSC 418	Adv Game & Simulation Dev
EE 473	Advanced Communication Systems	CSC 434	Form Lang - Automata Theory
* Credit for both EE 440 & EE 443 not allowed		CSC 440	Secure Software Engineering
Senior Lab -May be selected from			
EE 437	Electronics Lab		
EE 447	Programmable Logic Devices Lab		
EE 449	Control and Communications Lab		

*** CpE Program requires CA 110**

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.