

# BSEE Program (PreMed Track) - 2025-2026

1st Semester	2nd Semester	3rd Semester	4th Semester	5th Semester	6th Semester	7th Semester	8th Semester
<b>MA125<sup>3</sup> (4)</b> Calculus I	<b>MA126 (4)</b> Calculus II <MA125 <sup>C</sup> >	<b>MA227 (4)</b> Calculus III <MA126 <sup>C</sup> >	<b>MA238 (3)</b> Diff. Equations (MA227 <sup>C</sup> )	<b>EE331 (3)</b> Physical Electronics <CH131 <sup>C</sup> , PH202 <sup>C</sup> > <MA238 <sup>C</sup> , EE220 <sup>C</sup> >	<b>EE334 (3)</b> Digital Electronics <EE223, EE331>	<b>EE431 (3)</b> Analog Electronics <EE227, EE334>	<b>EE437 (1)</b> Electronics Lab <EE334> (EE431)
<b>CH131<sup>3</sup> (4)</b> Chemistry I	<b>PH201 (4)</b> Physics I (cal based) <MA125 <sup>C</sup> , EH101 <sup>C</sup> > (MA126)	<b>PH202 (4)</b> Physics II (cal based) <PH201, MA126 <sup>C</sup> > <EH101 <sup>C</sup> >	<b>EE223 (3)</b> Network Analysis <EE220 <sup>C</sup> , PH202 <sup>C</sup> > (MA227 <sup>C</sup> , MA238 <sup>C</sup> )	<b>EE321 (3)</b> Signals & Systems <EE223, MA238 <sup>C</sup> >	<b>EE328 (3)</b> Feedbk Control Sys. <EE321>	<b>EE401* (1) W</b> Intro to ECE Design <CA110, EE321> (EE334, EE368)	<b>EE404** (3) W</b> ECE Design <EE328, EE334> <EE368, EE401>
<b>EH101<sup>3</sup> (3)</b> Composition I	<b>EH102<sup>3</sup> (3)</b> Composition II <EH101 <sup>C</sup> >	<b>EE220 (3)</b> Circuit Analysis <MA125 <sup>C</sup> , PH201 <sup>C</sup> >	<b>MA237 (3)</b> Linear Algebra I <MA126 <sup>C</sup> >	<b>EE227 (1)</b> Circuits and Dev Lab <EH102 <sup>C</sup> > (EE223)	<b>EE322** (3)</b> Prob. & Stat. Anal. <MA238 <sup>C</sup> > (EE321)	<b>EE465* (3)</b> Digital Signal Proc. <EE321, EE322>	<b>EE4XX (3)</b> Tech Elective
<b>EG101<sup>4</sup> (2)</b> Intro to Engineer. (MA113 or MA125 <sup>C</sup> )	<b>CPE260 (3)</b> Intro. to C++ (MA125 <sup>C</sup> )	<b>EE263 (3)</b> Digital Logic <CPE260 <sup>C</sup> >	<b>EE268 (1)</b> Digital Logic Lab <EE263 <sup>C</sup> or CSC228 <sup>C</sup> > <EH102 <sup>C</sup> >	<b>EE264 (3)</b> Microproc. <EE263 <sup>C</sup> or CSC228 <sup>C</sup> > <EE220 <sup>C</sup> >	<b>EE368 (1)</b> Microproc Sys Lab <EE268>, (EE264)	<b>General Ed (3)</b> <b>L/H/FA or H/SBS</b>	<b>EE4XX (3)</b> Tech Elective
<b>CA110 (3)</b> Public Speaking	<b>CH132 (4)</b> Chemistry II <CH131>	<b>CH201 (4)</b> Organic Chem I <CH132>	<b>CH202 (4)</b> Organic Chem II <CH201>	<b>BMD321* (3)</b> Biochem. I <CH201>	<b>BMD322** (3)</b> Biochem. II <CH201, BMD321 <sup>C</sup> >	<b>EE4XXL (1)</b> Tech Elective Lab	<b>General Ed (3)</b> <b>L/H/FA or H/SBS</b>
<b>General Ed (3)</b> <b>SS</b> <b>PSY120 recom</b>			<b>BLY121<sup>3</sup> (4)</b> Gen Biology I	<b>BLY122<sup>3</sup> (4)</b> Gen Biology II <BLY 121>	<b>EE372** (3)</b> Communications <EE321>, (EE322)	<b>BLY350<sup>3</sup> (3)</b> Human Physiology <See bulletin>	<b>General Ed (3)</b> <b>L/H/FA or H/SBS</b>
					<b>General Ed (3)</b> <b>SS</b> <b>SY109 recom</b>	<b>EG 231 (3)</b> Ethics & Eng Econ <MA126 <sup>C</sup> >	

**Revised: 03/07/25**

**\* Courses only taught in the fall semester**

**\*\* Courses only taught in the spring semester**

<sup>3</sup> May require minimum ACT, placement test, or remedial prerequisites.

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

<sup>C</sup> 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

MCAT Exam is taken in the Summer after the Junior Year

Dashed border denotes required Pre-Med Track courses

Double border denotes a course that is not required

19 cr-hr	18 cr-hr	18 cr-hr	18 cr-hr	17 cr-hr	19 cr-hr	14 cr-hr	16 cr-hr
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General Education Requirements			
All students are required to take EH 101 and EH 102, English Composition I and II, plus 15 hours of general education courses.			
Literature, Humanities and Fine Arts: 9 hrs total		History, Social Sciences, and Behavioral Sciences: 6 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> GS 101                      Gender Studies IST 201                     Seasons of Life AN 100, 101                Anthropology CA 100, 211                Communications ECO 215, 216              Economics GEO 114, 115              Geography PSC 130                     US Government <b>PSY 120**</b> , 250            Psychology <b>SY 109**</b> , 112             Sociology IS 100                        Global Issues	
<u>Fine Arts - 3 hrs required</u>			
ARH 100	Survey of Art		
ARH 103, 123	Art History		
ARS 101	Art Appreciation		
DRA 110	Intro to Drama		
MUL 101	Intro to Music		
<u>Humanities - 3 hrs required</u>			
AFR 101	African American Studies		
AIS 105	Encounter with the Human		
<b>CA 110 *</b>	<b>Public Speaking *</b>	IS 100                        Global Issues	
LG 111, 112, 211, 212	French	<b>* EE Program requires CA 110</b> <b>** PSY120 and SY109 are recommended for the MCAT.</b>	
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.

Electrical Engineering Pre-med Track			
The EE Pre-Med Track requires BLY121, BLY122, BMD321, BMD322, CH132, CH201, CH202. In addition, Physiology (BLY350) is recommended but not required. 2 technical electives and 1 technical elective lab must be selected from the list below.			
Courses			
EE 423	Modern Control Theory		
EE 430	Power Semiconductor Dev		
EE 432	Microelectronic Devices		
EE 434	VLSI Design Systems		
EE 438	Virtual Instrumentation		
EE 439	VSLI Technology-Fabrication		
EE 440	HDL Logic Synthesis		
EE 441	Computer Networks		
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 468	Programmable Logic Controllers		
EE 469	Signal Integrity		
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	