Chemical and Biomolecular Engineering BSChE Program - 2022-2023

1st Semester	2nd Semester	3rd Semester	4th Semester	5th Semester	6th Semester	7th Semester	8th Semester
FALL	SPRING	FALL	SPRING	FALL	SPRING	FALL	SPRING
MA125 (4) Calculus I	**MA126 (4)** Calculus II <MA125>	**MA227 (4)** Calculus III <MA126>	**MA238 (3)** Diff. Equations (MA227)	***CHE311 (3)** Separations I <CHE203>, (CHE331)	****CHE363 (3)** Sim. Chem Proc. <CHE311>	***CHE421 (3)** Separations II <CHE311, CHE322>	****CHE462 (3)** Design II <CHE461>
CH131 (4) Chemistry I	**CH132 (4)** Chemistry II <CH131>	**CH201 (4)** Organic Chem. I <CH132>	**CH202 (4)** Organic Chem. II <CH201>	***CHE321 (3)** Transport Phen. I <PH201, MA238, CHE203>	****CHE322 (3)** Transport Phen. II <CHE321>	***CHE441 (2)** Unit Ops Lab I <CHE322, CHE342, CHE351, CHE352>	****CHE442 (2)** Unit Ops Lab II <CHE311, CHE421, CHE441>
EH101 (3) Composition I	**EH102 (3)** Composition II <EH101>	**CHE203 (4)** Mat. & Energy Bal. <CH132, MA126, EH101>	**EG231 (3)** EG Economics <MA126>	***CHE331 (3)** Thermo I (CHE 351), <CH201,PH201, CHE203, MA238>	****CHE332 (3)** Thermo II <CHE331>, (CHE 352)	***CHE461 (3)** Design I <EG231, CHE311, CHE332, CHE342, CHE372>	****CHE Elect. II (3)**
BLY121 (3) General Biology	**PH201 (4)** Physics I (cal based) <MA125, EH101> (MA126)	**PH202 (4)** Physics II (cal based) <PH201, MA126, EH101>	**Tech Elective (3)**	***CHE351 (1)** Modeling Lab (CHE311, CHE331)	****CHE372 (3)** Reactor Design <CHE331>, (CHE322, CHE332)	***CHE452 (3)** Proc. Controls <CHE372>	**General Ed (3) L/H/FA or H/SBS**
EG101 (2) Freshman Seminar			**General Ed (3) L/H/FA or H/SBS**	**Chem Elect. (3-4)** **CH265** Intro Anal. **CH440** Biochem. I	****CHE352 (1)** Measurement Lab <CHE351>, (CHE332, CHE372)	***CHE Elect. I (3)**	**General Ed (3) L/H/FA or H/SBS**
				General Ed (3) L/H/FA or H/SBS	**General Ed (3) L/H/FA or H/SBS**	**General Ed (3) L/H/FA or H/SBS**	
16 cr-hr	**15 cr-hr**	**16 cr-hr**	**16 cr-hr**	**16 or 17 cr-hr**	**16 cr-hr**	**17 cr-hr**	**14 cr-hr**

< > indicates prerequisite courses; ( ) indicates corequisite courses

Courses in shaded boxes indicate PCS course: C - Grade or higher required (Only two attempts allowed for CHE 203)

C-Grade or higher required in all prerequisite courses
BMD 321 can be taken in place of CH 440

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

****CHE courses only taught in the spring semester**

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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	AIS 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
Humanities - 3 hrs required		PSC 130	US Government
CA 110	**Public Speaking***	PSY 120, 250, 121	Psychology
		SY 109, 112	Sociology
		IS 100	Global Issues

BSChBE Elective Requirements

Students must take one Technical Elective and at least six hours of Chemical Engineering Electives

Technical Electives		**Chemical Engineering Electives**	
Choose one course from this list		**Choose at least 6 hours from this list**	
Biology	BLY122 (only if CH440 is also taken)	CHE 490	Special Topics in Chemical Eng. (3 hrs)
		CHE 494	Directed Independent Study (3 hrs)
Chemistry	Any course higher than CH202	CHE 499	Senior Honors Project (4 or 6 hrs)
Comp Info Sci	CIS 210		
Mathematics	MA 237, 332 or 354		
Statistics	ST 315 or 320		
Engineering	Any 200, 300 or 400 level elective (excluding EG270)		

Student Responsibility: The University of South Alabama will endeavor to provide timely and accurate advisement. 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.