



Degree Map

CATALOG YEAR: 2021-2022

Degree: BSChE

MAJOR: Chemical Engineering

The major map illustrates one path to completing your major, based on faculty members' advice on course sequence and course schedule. This document provides general direction.

Course	Cr. Hrs.	Course	Cr. Hrs.
FIRST YEAR			
Semester: Fall	Total Credit Hours: 14	Semester: Spring	Total Credit Hours: 15
ENGL 1010 Writing Composition I	3	ENGL 1020 Writing Composition II	3
CHE 1010 Intro to Chemical Engineering	1	CHE 1020 CHE Processes, Products, & Ethics	1
MATH 1910 Calculus I	4	MATH 1920 Calculus II	4
CHEM 1110 General Chemistry I	4	CHEM 1120 General Chemistry II	4
ENGR 1120 Programming	2	Humanities/Fine Arts Elective 1	3
Course	Cr. Hrs.	Course	Cr. Hrs.
SOPHOMORE YEAR			
Semester: Fall	Total Credit Hours: 17	Semester: Spring	Total Credit Hours: 15
ENGL 2130, 2235, or 2330 Lit.	3	COMM 2025 or PC 2500 Communication	3
MATH 2110 Calculus III	4	MATH 2120 Differential Equations	3
PHYS 2110 Physics I w/ Lab	4	CHE 2020 Intro to Chem/Bio An-Sci II	3
CHE 2015 Intro to Chem/Bio An-Sci I	3	CHE 3735 ChE Operation	2
Social/Behavioral Science Elective 1	3	PHYS 2120 Physics II w/ Lab	4
Course	Cr. Hrs.	Course	Cr. Hrs.
JUNIOR YEAR			
Semester: Fall	Total Credit Hours: 17	Semester: Spring	Total Credit Hours: 18
CHE 3010 Thermo of ChE Processes	3	CHE 3510 Sep and Sol Thermo	3
CHE 3050 TS1: Cond, Radiation, Diff	3	CHE 3510 Thermo LAB	1
CHE 3051 TS1: LAB	1	CHE 3550 TS2: Fluid Mechanics	3
CHEM 3010 Organic Chemistry I	4	CHE 3551 TS2: LAB	1
Humanities/Fine Arts Elective 1	3	CHEM 3020 Organic Chemistry II	4
XXX xxxx Tech Elective	3	XXX xxxx Tech Elective	3
		Social/Behavioral Science Elective 2	3
Course	Cr. Hrs.	Course	Cr. Hrs.
SENIOR YEAR			
Semester: Fall	Total Credit Hours: 15	Semester: Spring	Total Credit Hours: 18
CHE 4050 TS3: Diff and Mass Transfer	3	CHE 4250 ChE Capstone Lab	2
CHE 4051 TS3: LAB	1	CHE 4420 Process Design II	3
CHE 4060 ChE Reaction Engineering	3	CHE 4540 Process Dynamics and Control	3
CHE 4061 Reacation LAB	1	CHEM 3520 Physical Chemistry II	4
CHE 4410 Process Design I	3	CHE 4xxx ChE Tech Elective	3
CHEM 3510 Physical Chemistry I	4	ChE 4xxx ChE Tech Elective	3

Notes:

1. ENGR 1120 must be MATLAB
2. Tech Electives can be from any of the following courses:
 - a. Any College of Engineering course at 3000 or 4000 level
 - b. Any BIOL/CHEM/MATH/PHYS course at 3000 or 4000 level
 - c. Any course with the prior approval of the CHE Undergraduate Program Coordinator
3. Six hours of CHE Tech Elective must be from CHE 4245, CHE 4330, CHE 4340, CHE 4550, CHE 4560, CHE 4661, CHE 4990