COMBINED MAJOR IN CHEMICAL ENGINEERING AND BIOCHEMISTRY

BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING

CURRICULUM OUTLINE - Class of 2024

Sample Only – Actual Curriculum Sequence May Deviate from Sample

	FALL			SPRING			SUMMER 1			SUMMER 2
Year 1	CHEM1151	General Chem for Engrs.	4	MATH1342	Calculus 2 for Engrs.	4	CHME2308	ChE Conservation Princ.	4	Vacation
	CHEM1153	Recitation for CHEM1151	0	PHYS1151	Physics 1 for Engrs.	3	MATH2321	Calculus 3 for Engrs.	4	
	ENGW1111	College Writing	4	PHYS1152	Physics 1 Lab	1				
	GE1000	Intro. to Eng'g.	1	PHYS1153	ILS for PHYS1151	1				
	GE1501	Cornerstone Eng'g 1	4	GE1502	Cornerstone Eng'g 2	4				
	MATH1341	Calculus 1 for Engrs.	4	Elective	General Elective	4				
Year 2 AA	BIOL1115	Biology for Engrs	4	CHEM2313	Organic Chemistry 2	4	Elective	General Elective	4	Co-op
	CHEM2311	Organic Chemistry 1	4	CHEM2314	Lab for CHEM 2313	1	BIOL2301	Gen. & Molecular Bio.	4	
	CHEM2312	Lab for CHEM2311	1	CHEM2320	Recitation for CHEM2313	0	BIOL2302	Lab for BIOL2301	1	
	CHEM2319	Recitation for CHEM2311	0	CHEM2331	Bioanalytical Chem.	4				
	CHME2310	Transport Processes 1	4	CHEM2332	Lab for CHEM2331	1				
	MATH2341	Diff. Eq./Lin. Alg.	4	CHME2000	Intro to Eng'g. Co-op	1				
				CHME2320	ChE Thermodynamics 1	4				
				Elective	General Elective	4				
Year 3 AA	Co-op			CHME3312	Transport Processes 2	4	BIOL3611	Biochemistry	4	Co-op
				CHME3315	ChE Eng'g. Exp. Design 1	4	BIOL3612	Lab for BIOL2323	1	
				CHME3322	ChE Thermodynamics 2	4	Elective	General Elective	4	
				ENGW3315*	Advanced Writing	4				
Year 4 AA	Co-op			BIOL4707	Cell & Molecular Biology	4	Vacation			Co-op
				CHME3000	Prof. Issues in Eng'g.	1				
				CHME 4315	ChE Eng'g. Exp. Design 2	4				
				CHME4510	ChE Kinetics	4				
				CHME4701	Cpstn 1: Sep. & Proc. Anlys.	4				
Year 5 AA	Co-op			CHME4512	Chem. Eng. Process Control	4				
				CHME4703	Capstone Design 2: Chem. Process Design	4				
				CHEMXXXX	Adv. Chem Elective	4				
				BIOLXXXX	Adv. Biology Elective	4				

Revised 4/11/2019

Please note this combined major has 8 1/2 semesters worth of coursework.

* ENGW3302 is an acceptable substitution for engineering majors.

NUpath Requirements: Interpreting Culture (IC), Societies and Institutions (SI), Differences and Diversity (DD) and Integration Experience (EX) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements and should use General Electives to do so.

General Electives are academic, non-remedial, non-repetitive courses.

Please consult with your Academic Advisor:

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The registrar's website provides a listing of degree requirements and DARS provides a degree audit utility for students.