

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	GE1502	Cornerstone Eng'g 2	4	Vacation
	CHEM1153	Recitation for CHEM 1151	0	MATH1342	Calculus 2 for Engrs.	4	
	ENGW1111	First Year Writing	4	PHYS1151	Physics 1 for Engrs.	3	
	GE1000	Intro. to Eng'g.	1	PHYS1152	Physics 1 Lab	1	
	GE1501	Cornerstone Eng'g 1	4	PHYS1153	ILS for PHYS1151	1	
	MATH1341	Calculus 1 for Engrs.	4	Elective	General Elective	4	
Year 2 AA	BIOL1115	Biology for Engrs	4	CHEM2313	Organic Chemistry 2	4	Vacation
	CHEM2311	Organic Chemistry 1	4	CHEM2314	Lab for CHEM 2313	1	
	CHEM2312	Lab for CHEM2311	1	CHEM2321	Analytical Chem.	4	
	CHEM2310	Transport Processes 1	4	CHEM2322	Lab for CHEM2321	1	
	MATH2341	Diff. Eq./Lin. Alg.	4	CHEM2323	Recitation for CHEM2321	0	
				or CHEM2331	Bioanalytical Chem.	4	
				CHEM2332	Lab for Bioanalytical Chem.	1	
				CHME2320	ChE Thermodynamics 1	4	
			ENCP2000	Intro to Eng'g. Co-op	1		
			Elective	General Elective	4		
Year 3 AA	CHME3312	Transport Processes 2	4	CHME4315	ChE Eng'g. Exp. Des 2	4	Co-op
	CHME3315	ChE Eng'g. Exp. Des 1	4	CHME4316	Recitation for CHME4315	0	
	CHME3316	Recitation for CHME3315	0	CHME4510	ChE Kinetics	4	
	CHME3322	ChE Thermodynamics 2	4	CHME4701	Cpstn 1: Sep. & Proc. Anlys.	4	
	*ENGW3302	Advanced Writing	4	CHEMXXXX	Adv. Chem Elective	4	
Year 4 AA		Co-op		BIOL4707	Cell & Molecular Biology	4	
			CHME4512	Chem. Eng. Process Control	4		
			CHME4703	Capstone Design 2: Chem. Process Design	4		
			CHME4705	Recitation for CHME4703			
			ENCP3000	Prof. Issues in Eng'g.	1		
			BIOLXXXX	Adv. Biology Elective	4		

Revised 5/8/20

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

* ENGW3307 or ENGW3315 are acceptable substitutions.

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.

[Please consult with your Academic Advisor, found here.](#)

Degree requirements can be found in the academic catalog and DARS provides a degree audit for students.