

**COMBINED MAJOR IN CHEMICAL ENGINEERING AND BIOCHEMISTRY**  
**BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING**  
**CURRICULUM OUTLINE - Class of 2021**

*Sample Only – Actual Curriculum Sequence May Deviate from Sample*

	FALL		SPRING		SUMMER 1		SUMMER 2
Year 1	<a href="#">MATH1341</a>	Calculus 1 for Engrs.	4	<a href="#">MATH1342</a>	Calculus 2 for Engrs.	4	Vacation
	<a href="#">CHEM1151</a>	General Chem for Engrs.	4	<a href="#">PHYS1151</a>	Physics 1 for Engrs.	3	
	<a href="#">CHEM1153</a>	Recitation for CHEM1151	0	<a href="#">PHYS1152</a>	Physics 1 Lab	1	
	<a href="#">GE1000</a>	Intro. to Eng'g.	1	<a href="#">PHYS1153</a>	ILS for PHYS1151	1	
	<a href="#">GE1501</a>	Cornerstone Eng'g 1	4	<a href="#">GE1502</a>	Cornerstone Eng'g 2	4	
	<a href="#">ENGW1111</a>	College Writing	4	Elective	General Elective	4	
Year 2 AA	<a href="#">MATH2321</a>	Calculus 3 for Engrs.	4	<a href="#">MATH2341</a>	Diff. Eq./Lin. Alg.	4	Vacation
	<a href="#">CHEM2311</a>	Organic Chemistry 1	4	<a href="#">CHEM2313</a>	Organic Chemistry 2	4	
	<a href="#">CHEM2312</a>	Lab for CHEM2311	1	<a href="#">CHEM2314</a>	Lab for CHEM 2313	1	
	<a href="#">CHEM2319</a>	Recitation for CHEM2311	0	<a href="#">CHEM2320</a>	Recitation for CHEM2313	0	
	<a href="#">BIOL1115</a>	Biology for Engrs	4	<a href="#">CHME2310</a>	Transport Processes 1	4	
	<a href="#">CHME2308</a>	ChE Conservation Princ.	4	<a href="#">CHME2311</a>	Lab for CHME2310	2	
				<a href="#">CHME2320</a>	ChE Thermodynamics 1	4	
			<a href="#">CHME2000</a>	Intro to Eng'g. Co-op	1		
Year 3 AA	<a href="#">ENGW3302*</a>	Advanced Writing for Prof. (to be taken online)	4	<a href="#">CHME3312</a>	Transport Processes 2	4	Co-op
		Co-op		<a href="#">CHME3313</a>	Lab for CHME3312	1	
				<a href="#">CHME3322</a>	ChE Thermodynamics 2	4	
				Elective	General Elective	4	
				<a href="#">BIOL2301</a>	Genetics & Molecular Biology	4	
				<a href="#">BIOL2302</a>	Lab for BIOL2301	1	
Year 4 AA		Co-op		<a href="#">CHEM2331</a>	Bioanalytical Chem.	4	Vacation
				<a href="#">CHEM2332</a>	Lab for CHEM2331	1	
				<a href="#">BIOL4707</a>	Molecular Cell Biology	4	
				<a href="#">CHME3000</a>	Prof. Issues in Eng'g.	1	
				<a href="#">CHME4510</a>	ChE Kinetics	4	
				<a href="#">CHME4701</a>	Cpstrn 1: Sep. & Proc. Anlys.	4	
Year 5 AA		Co-op		CHEMXXXX	Adv. Chem Elective	4	
				BIOLXXXX	Adv. Biology Elective	4	
				<a href="#">CHME4703</a>	Capstone Design 2: Chem. Process Design	4	
				<a href="#">CHME4512</a>	Chem. Eng. Process Control	4	

Revised 12/12/17

\* [ENGW3315](#) is an acceptable substitution for engineering majors.

**NUpath Requirements:** Interpreting Culture (IC), Societies and Institutions (SI) and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements, and if these are not fulfilled in engineering courses, should General Electives to do so. General Electives are academic, non-remedial, non-repetitive courses.

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