Bachelor of Science in Chemical Engineering - 4 Year 2 Co-op Program
CURRICULUM OUTLINE - Class of 2023
Sample Only – Actual Curriculum Sequence May Deviate from Sample

	FALL			SPRING			SUMMER 1			SUMMER 2		
Year 1	MATH1342	Calculus 2 for Engrs.	4	MATH2321	Calculus 3 for Engrs.	4	CHME2308	ChE Conservation Princ.	4			
	CHEM1151	General Chem for Engrs.	4	PHYS1151	Physics 1 for Engrs.	3	Elective	General Elective 2	4		Vacation	
	CHEM1153	Recitation for CHEM1151	0	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						
	ENGW1111	College Writing	4	Elective	General Elective 1	4						
Year 2 MC	MATH2341	Diff. Eq./Lin. Alg.	4	CHEM2313	Organic Chem. 2	4	Elective	General Elective 3	4			
	CHEM2311	Organic Chemistry 1	4	CHEM2314	Lab for CHEM2313	1	Elective	Adv. Science Elective	4			
	CHEM2312	Lab for CHEM2311	1	ENCP2000	Intro. to Eng'g. Co-op	1						
	CHEM2319	Recitation for CHEM2311	0	CHME3312	Transport Processes 2	4					Co-op	
	CHME2310	Transport Processes 1	4	CHME3322	ChE Thermodynamics 2	4						
	CHME2320	ChE Thermodynamics 1	4	[BIOL 1115 or	[General Biology 1 for Engrs. OR	4/5						
				PHYS 1155	Physics for Engrs. 2,							
				PHYS 1156	Lab for PHYS1155, and							
				PHYS 1157	Interactive Learn Sem. for PHYS1155							
Year 2 MD	MATH2341	Diff. Eq./Lin. Alg.	4	ENGW3302	Adv Writing in the Tech Prof	4				CHEM2313	Organic Chem. 2	4
	CHEM2311	Organic Chemistry 1	4		*(to be taken online)*					CHEM2314	Lab for CHEM2313	1
	CHEM2312	Lab for CHEM2311	1							CHME2320	ChE Thermo. 1	4
	ENCP2000	Intro. to Eng'g. Co-op	1					Co-op				
	CHME2310	Transport Processes 1	4		Co-op							
	[BIOL 1115 or	[General Biology 1 for Engrs. OR	4/5									
	PHYS 1155	Physics for Engrs. 2,										
	PHYS 1156	Lab for PHYS1155, and										
	PHYS 1157	Interactive Learn Sem. for PHYS1155]										
Year 3 MC	ENGW3302	Adv Writing in the Tech Prof	4	CHME3315	Chem Eng Exp Design 1	4	Elective	General Elective 5	4			
		(to be taken online)		CHME3316	Recitation for CHME 3315	0	Elective	General Elective 6	4			
				CHME4510	ChE Kinetics	4					Co-op	
		Co-op		CHME4701	Cpstn 1: Sep. & Proc. Anlys.	4						
				Elective	General Elective 4	4						
Year 3 MD	CHME3312	Transport Processes 2	4							Elective	General Elective 4	4
	CHME3315	Chem Eng Exp Design 1	4							Elective	General Elective 5	4
	CHME3316	Recitation for CHME 3315	0		Co-op			Co-op				
	CHME3322	ChE Thermodynamics 2	4									
	Elective	General Elective 3	4									
Year 4 MC				ENCP3000	Prof. Issues in Eng'g.	1						
				CHME4315	Chem Eng Exp Design 2	4						
				CHME4316	Recitation for CHME 4315	0						
		Co-op		CHME4512	ChE Process Control	4						
				CHME4703	Cpstn 2: Chem Proc Design	4						
				CHME4705	Recitation for CHME 4703	0						
				Elective	Advanced Eng. Elective	4						
Year 4 MD	ENCP3000	Prof. Issues in Eng'g.	1	CHME4512	ChE Process Control	4						
	CHME4315	Chem Eng Exp Design 2	4	CHME4703	Cpstn 2: Chem Proc Design	4						
	CHME4316	Recitation for CHME 4315	0	CHME4705	Recitation for CHME 4703	0						
	CHME4510	ChE Kinetics	4	Elective	Adv. Eng'g. Elective	4						
	CHME4701	Cpstn 1: Sep. & Proc. Anlys.	4	Elective	General Elective 6	4						
	Elective	Advanced Science Elective	4									

Revised 11/14/19

Students need AP credit for Calc. AB (MATH1341 - Calculus 1 - 4 SH) in order to complete the 4 year plan - see advisor

* ENGW3315   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.

Advanced Science Elective Requirements: Students can choose between BIOL2301, BIOL2321/22, BIOL2327, BIOL3603, BIOL 3611/12, CHEM2331/2332, CHEM3403/04, CHEM 3501, CHEM4621/4622, CHEM4628/29, EEMB2302/2303, PHYS2303, PHYS3601. Students must meet all prerequisite requirements to enroll in these courses and enroll in co-requisite labs if applicable.

Advanced Engineering Elective Requirements: Must be 4000-5999 level engineering course; may be within BIOE, CHME, CIVE, EECE, ME, IE, MEIE, ENGR. Students must meet all course resitrictions and prerequisite requirements to enroll in these courses. A faculty approved undergraduate research project can be substituted for this requirement. Research must be 4 semester hours and the Chemical Engineering Undergraduate Education Commitee must approve project prior to registration. Proper registration form will be required; please see advisor for more details.

Please consult with your Academic Advisor, found here.

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