

**BACHELOR OF SCIENCE IN CHEMICAL ENGINEERING
CURRICULUM OUTLINE - Class of 2025**

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	Vacation		
	CHEM1153	Recitation for CHEM1151	0	MATH1342	Calculus 2 for Engrs.	4				
	ENGW1111	College 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	BIOL 1115	General Biology 1 for Engrs.	4	CHEM2313	Organic Chem. 2	4	Vacation	Co-op		
	or PHYS1155	Physics for Engrs. 2,	3	CHEM2314	Lab for CHEM2313	1				
	PHYS1156	Lab for PHYS1155, and	1	CHEM2310	Transport Processes 1	4				
	PHYS1157	Interactive Learn Sem. for PHYS1155]	1	CHME2320	ChE Thermodynamics 1	4				
	CHEM2311	Organic Chemistry 1	4	ENCP2000	Intro. to Eng'g. Co-op	1				
	CHEM2312	Lab for CHEM2311	1	MATH2341	Diff. Eq./Lin. Alg.	4				
Year 2 BA	BIOL 1115	General Biology 1 for Engrs.	4	Co-op			Co-op			
	or PHYS1155	Physics for Engrs. 2,	3							
	PHYS1156	Lab for PHYS1155, and	1							
	PHYS1157	Interactive Learn Sem. for PHYS1155]	1							
	CHEM2311	Organic Chemistry 1	4							
	CHEM2312	Lab for CHEM2311	1							
Year 3 AA	CHEM2308	ChE Conservation Princ.	4	Co-op			Co-op			
	MATH2321	Calculus 3 for Engrs.	4							
	CHME3312	Transport Processes 2	4							
	CHME3315	ChE Eng'g. Exp. Design 1	4							
	CHME3316	Recitation for CHME3315	0							
	CHME3322	ChE Thermodynamics 2	4							
Year 3 BA	BIOL 1115	General Biology 1 for Engrs.	4	Co-op			Co-op			
	or PHYS1155	Physics for Engrs. 2,	3							
	PHYS1156	Lab for PHYS1155, and	1							
	PHYS1157	Interactive Learn Sem. for PHYS1155]	1							
	CHEM2311	Organic Chemistry 1	4							
	CHEM2312	Lab for CHEM2311	1							
Year 4 AA	CHME2308	ChE Conservation Princ.	4	Co-op			Co-op			
	ENCP2000	Intro. to Eng'g. Co-op	1							
	MATH2321	Calculus 3 for Engrs.	4							
	CHME3312	Transport Processes 2	4							
	CHME3315	ChE Eng'g. Exp. Design 1	4							
	CHME3316	Recitation for CHME3315	0							
Year 4 BA	CHME2310	Transport Processes 1	4	Co-op			Co-op			
	CHME3322	ChE Thermodynamics 2	4							
	MATH2341	Diff. Eq./Lin. Alg.	4							
	Elective	General Elective 2	4							
	CHME4315	ChE Eng'g. Exp. Design 2	4							
	CHME 4316	Recitation for CHME4315	0							
Year 4 BA	CHME4510	ChE Kinetics	4	Co-op			Co-op			
	CHME4701	Cpstrn 1: Sep. & Proc. Anlys.	4							
	ENCP3000	Prof. Issues in Eng'g.	1							
	ENCP3000	Prof. Issues in Eng'g.	1							
	ENCP3000	Prof. Issues in Eng'g.	1							
	ENCP3000	Prof. Issues in Eng'g.	1							
Year 5 AA	ENCP3000	Prof. Issues in Eng'g.	1	Co-op			Co-op			
	ENCP3000	Prof. Issues in Eng'g.	1							
	ENCP3000	Prof. Issues in Eng'g.	1							
	ENCP3000	Prof. Issues in Eng'g.	1							
	ENCP3000	Prof. Issues in Eng'g.	1							
	ENCP3000	Prof. Issues in Eng'g.	1							
Year 5 BA	ENCP3000	Prof. Issues in Eng'g.	1	Co-op			Co-op			
	ENCP3000	Prof. Issues in Eng'g.	1							
	ENCP3000	Prof. Issues in Eng'g.	1							
	ENCP3000	Prof. Issues in Eng'g.	1							
	ENCP3000	Prof. Issues in Eng'g.	1							
	ENCP3000	Prof. Issues in Eng'g.	1							

Revised 5/8/20

* ENGW3315 is an acceptable substitution.

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, BIOL 2327, BIOL3421/2, BIOL3603, BIOL3611/2, CHEM2321/2, CHEM2331/2, CHEM3403/4, CHEM3501/2/3, CHEM4621/2, CHEM4628/9, EEMB2302/3, EEMB3460, EEMB3470/1, PHYS1211, PHYS2303, PHYS2371/2, PHYS3601, PHYS3602. 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 restrictions 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 Committee 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.](#)

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