

## 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	<a href="#">MATH1341</a>	Calculus 1 for Engrs.	4	<a href="#">MATH1342</a>	Calculus 2 for Engrs.	4	Vacation	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 1	4			
Year 2 AA	<a href="#">CHEM2311</a>	Organic Chemistry 1	4	<a href="#">CHEM2313</a>	Organic Chem. 2	4	Vacation	Co-op	
	<a href="#">CHEM2312</a>	Lab for CHEM2311	1	<a href="#">CHEM2314</a>	Lab for CHEM2313	1			
	<a href="#">CHEM2319</a>	Recitation for CHEM2311	0	<a href="#">CHEM2320</a>	Recitation for CHEM2313	0			
	<a href="#">CHME2308</a>	ChE Conservation Princ.	4	<a href="#">CHME2000</a>	Intro. to Eng'g. Co-op	1			
	<a href="#">MATH2321</a>	Calculus 3 for Engrs.	4	<a href="#">CHME2310</a>	Transport Processes 1	4			
	<a href="#">[BIOL 1115 or</a>	[General Biology 1 for Engrs. OR	4/5	<a href="#">CHME2320</a>	ChE Thermodynamics 1	4			
	<a href="#">PHYS 1155</a>	Physics for Engrs. 2,		<a href="#">MATH2341</a>	Diff. Eq./Lin. Alg.	4			
	<a href="#">PHYS 1156</a>	Lab for PHYS1155, and							
	<a href="#">PHYS 1157]</a>	Interactive Learn Sem. for PHYS1155]							
Year 2 BA	<a href="#">CHEM2311</a>	Organic Chemistry 1	4	Co-op	Co-op	Co-op	<a href="#">CHEM2313</a>	Organic Chem. 2	4
	<a href="#">CHEM2312</a>	Lab for CHEM2311	1				<a href="#">CHEM2314</a>	Lab for CHEM2313	1
	<a href="#">CHEM2319</a>	Recitation for CHEM2311	0				<a href="#">CHEM2320</a>	Recitation CHEM2313	0
	<a href="#">CHME2000</a>	Intro. to Eng'g. Co-op	1				<a href="#">CHME2320</a>	ChE Thermo. 1	4
	<a href="#">CHME2308</a>	ChE Conservation Princ.	4						
	<a href="#">MATH2321</a>	Calculus 3 for Engrs.	4						
	<a href="#">[BIOL 1115 or</a>	[General Biology 1 for Engrs. OR	4/5						
	<a href="#">PHYS 1155</a>	Physics for Engrs. 2,							
	<a href="#">PHYS 1156</a>	Lab for PHYS1155, and							
	<a href="#">PHYS 1157]</a>	Interactive Learn Sem. for PHYS1155]							
Year 3 AA	Co-op			<a href="#">CHME3312</a>	Transport Processes 2	4	Elective	General Elective 2	4
				<a href="#">CHME3315</a>	ChE Eng'g. Exp. Design 1	4	Elective	General Elective 3	4
				<a href="#">CHME3322</a>	ChE Thermodynamics 2	4			
				<a href="#">ENGW3302*</a>	Adv. Writing for Prof.	4			
Year 3 BA	<a href="#">CHME2310</a>	Transport Processes 1	4	Co-op	Co-op	Co-op	Elective	General Elective 3	4
	<a href="#">CHME3322</a>	ChE Thermodynamics 2	4				Elective	General Elective 4	4
	<a href="#">MATH2341</a>	Diff. Eq./Lin. Alg.	4						
	Elective	General Elective 2	4						
Year 4 AA	Co-op			<a href="#">CHME3000</a>	Prof. Issues in Eng'g.	1	Elective	General Elective 5	4
				<a href="#">CHME4315</a>	ChE Eng'g. Exp. Design 2	4	Elective	General Elective 6	4
				<a href="#">CHME4510</a>	ChE Kinetics	4			
				<a href="#">CHME4701</a>	Cpstrn 1: Sep. & Proc. Anlys.	4			
				Elective	General Elective 4	4			
Year 4 BA	<a href="#">CHME3312</a>	Transport Processes 2	4	Co-op	Co-op	Co-op	Vacation	Vacation	
	<a href="#">CHME3315</a>	ChE Eng'g. Exp. Design 1	4						
	<a href="#">ENGW3302*</a>	Adv. Writing for Prof.	4						
	Elective	General Elective 5	4						
Year 5 AA	Co-op			<a href="#">CHME4512</a>	ChE Process Control	4			
				<a href="#">CHME4703</a>	Cpstrn 2: Chem. Proc. Design	4			
				Elective	Adv. Eng'g. Elective	4			
				Elective	Adv. Science Elective	4			
Year 5 BA	<a href="#">CHME3000</a>	Prof. Issues in Eng'g.	1	<a href="#">CHME4512</a>	ChE Process Control	4			
	<a href="#">CHME4315</a>	ChE Eng'g. Exp. Design 2	4	<a href="#">CHME4703</a>	Cpstrn 2: Chem. Proc. Design	4			
	<a href="#">CHME4510</a>	ChE Kinetics	4	Elective	Adv. Eng'g. Elective	4			
	<a href="#">CHME4701</a>	Cpstrn 1: Sep. & Proc. Anlys.	4	Elective	General Elective 6	4			
	Elective	Advanced Science Elective	4						

Revised 4/11/19

\* [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 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:**

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Last Names L-Z Caitlin Goldblum, c.goldblum@northeastern.edu

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