

## 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="#">CHEM1151</a> General Chem for Engrs. 4 <a href="#">CHEM1153</a> Recitation for CHEM1151 0 <a href="#">GE1000</a> Intro. to Eng'g. 1 <a href="#">GE1501</a> Cornerstone Eng'g 1 4 <a href="#">ENGW1111</a> College Writing 4	<a href="#">MATH1342</a> Calculus 2 for Engrs. 4 <a href="#">PHYS1151</a> Physics 1 for Engrs. 3 <a href="#">PHYS1152</a> Physics 1 Lab 1 <a href="#">PHYS1153</a> ILS for PHYS1151 1 <a href="#">GE1502</a> Cornerstone Eng'g 2 4 Elective General Elective 1 4	Vacation	Vacation
Year 2 AA	<a href="#">MATH2321</a> Calculus 3 for Engrs. 4 <a href="#">CHEM2311</a> Organic Chemistry 1 4 <a href="#">CHEM2312</a> Lab for CHEM2311 1 <a href="#">CHEM2319</a> Recitation for CHEM2311 0 <a href="#">PHYS1155</a> Physics 2 for Engrs. 3 <a href="#">PHYS1156</a> Physics 2 Lab 1 <a href="#">PHYS1157</a> ILS for PHYS1155 1 <a href="#">CHME2308</a> ChE Conservation Princ. 4	<a href="#">MATH2341</a> Diff. Eq./Lin. Alg. 4 <a href="#">CHEM2313</a> Organic Chem. 2 4 <a href="#">CHEM2314</a> Lab for CHEM2313 1 <a href="#">CHEM2320</a> Recitation for CHEM2313 0 <a href="#">CHME2000</a> Intro. to Eng'g. Co-op 1 <a href="#">CHME2310</a> Transport Processes 1 4 <a href="#">CHME2311</a> Lab for CHME2310 2 <a href="#">CHME2320</a> ChE Thermodynamics 1 4	Vacation	Co-op
Year 2 BA	<a href="#">MATH2321</a> Calculus 3 for Engrs. 4 <a href="#">CHEM2311</a> Organic Chemistry 1 4 <a href="#">CHEM2312</a> Lab for CHEM2311 1 <a href="#">CHEM2319</a> Recitation for CHEM2311 0 <a href="#">PHYS1155</a> Physics 2 for Engrs. 3 <a href="#">PHYS1156</a> Physics 2 Lab 1 <a href="#">PHYS1157</a> ILS for PHYS1155 1 <a href="#">CHME2000</a> Intro. to Eng'g. Co-op 1 <a href="#">CHME2308</a> ChE Conservation Princ. 4	Co-op	Co-op	<a href="#">CHEM2313</a> Organic Chem. 2 4 <a href="#">CHEM2314</a> Lab for CHEM2313 1 <a href="#">CHEM2320</a> Recitation CHEM2313 0 <a href="#">CHME2320</a> ChE Thermo. 1 4
Year 3 AA	Co-op	<a href="#">BIOL1115</a> Biology 4 <a href="#">CHME3312</a> Transport Processes 2 4 <a href="#">CHME3313</a> Lab for CHME3312 2 <a href="#">CHME3322</a> ChE Thermodynamics 2 4	<a href="#">ENGW3302*</a> Adv. Writing for Prof. 4 Elective General Elective 2 4	Co-op
Year 3 BA	<a href="#">MATH2341</a> Diff. Eq./Lin. Alg. 4 <a href="#">BIOL1115</a> Biology 4 <a href="#">CHME2310</a> Transport Processes 1 4 <a href="#">CHME2311</a> Lab for CHME2310 2 <a href="#">CHME3322</a> ChE Thermodynamics 2 4	Co-op	Co-op	<a href="#">ENGW3302*</a> Adv. Writing for Prof. 4 Elective General Elective 2 4
Year 4 AA	Co-op	Elective Advanced Science Elective 4 <a href="#">CHME4510</a> ChE Kinetics 4 <a href="#">CHME4701</a> Cpstn 1: Sep. & Proc. Anlys. 4 <a href="#">CHME3000</a> Prof. Issues in Eng'g. 1 Elective General Elective 3 4	Elective General Elective 4 4 Elective General Elective 5 4	Co-op
Year 4 BA	Elective Advanced Science Elective 4 <a href="#">CHME3000</a> Prof. Issues in Eng'g. 1 <a href="#">CHME3312</a> Transport Processes 2 4 <a href="#">CHME3313</a> Lab for CHME3312 2 Elective General Elective 3 4	Co-op	Co-op	Vacation
Year 5 AA	Co-op	<a href="#">CHME4512</a> ChE Process Control 4 <a href="#">CHME4703</a> Cpstn 2: Chem. Proc. Design 4 Elective Adv. Eng'g. Elective 4 Elective General Elective 6 4		
Year 5 BA	<a href="#">CHME4510</a> ChE Kinetics 4 <a href="#">CHME4701</a> Cpstn 1: Sep. & Proc. Anlys. 4 Elective General Elective 4 4 Elective General Elective 5^ 4	<a href="#">CHME4512</a> ChE Process Control 4 <a href="#">CHME4703</a> Cpstn 2: Chem. Proc. Design 4 Elective Adv. Eng'g. Elective 4 Elective General Elective 6 4	^ Chem.Eng'g. Elective may be taken here for this POA	

Revised 05/24/16

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

Electives may be interchanged. Please consult with your advisor in 220SN, 617-373-2154

**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 use General Electives to do so.

General Electives are academic, non-remedial, non-repetitive courses.

**Advanced Science Elective Requirements:** Students can choose between BIOL2301/02, BIOL2323/24, BIOL2327, BIOL3603, CHEM2321/22, CHEM2341/42, CHEM3403/04, CHEM4621/4622, CHEM4628/29, 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 CHME, CIVE, EECE, ME, IE, MEIE, ENGR. 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.

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