

**Bachelor of Science in Chemical Engineering - 4 Year 2 Co-op Program**  
**CURRICULUM OUTLINE - Class of 2016, 2017, 2018, 2019**

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

	FALL	SPRING	SUMMER 1	SUMMER 2
<b>Year 1</b>	<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="#">GE1110</a> Eng'g. Design 4 <a href="#">NU CORE</a> Arts or Humanities Lvl. 1 4	<a href="#">MATH1342</a> Calculus 2 for Engrs. 4 <a href="#">PHYS1151</a> Physics 1 for Engrs. 4 <a href="#">PHYS1152</a> Physics 1 Lab 1 <a href="#">PHYS1153</a> ILS for PHYS1151 0 <a href="#">GE1111</a> Eng'g. Probl. Solv. & Comp. 4 <a href="#">ENGW1111</a> College Writing 4	Vacation	Vacation
<b>Year 2 MC</b>	<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. 4 <a href="#">PHYS1156</a> Lab for PHYS1155 1 <a href="#">PHYS1157</a> ILS for PHYS1155 0 <a href="#">CHME2308</a> ChE Conservation Princ. 4	<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="#">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 <a href="#">MATH2341</a> Diff. Eq./Lin. Alg. 4	Elective General Elective 1 4 <a href="#">NU CORE</a> Social Science Lvl. 1 4	Co-op
<b>Year 2 MD</b>	<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. 4 <a href="#">PHYS1156</a> Lab for PHYS1155 1 <a href="#">PHYS1157</a> ILS for PHYS1155 0 <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
<b>Year 3 MC</b>	Co-op	<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="#">CHME4701</a> Cpstn 1: Sep. & Proc. Anlys. 4 <a href="#">BIOL1115</a> Biology 4	Elective Adv. Eng'g. Elective 4 <a href="#">ENGW3302*</a> Adv. Writing for Prof. 4	Co-op
<b>Year 3 MD</b>	<a href="#">MATH2341</a> Diff. Eq./Lin. Alg. 4 <a href="#">CHME3322</a> ChE Thermodynamics 2 4 <a href="#">CHME2310</a> Transport Processes 1 4 <a href="#">CHME2311</a> Lab for CHME2310 2 <a href="#">CHEM3403</a> Quantum Chem & Spec. 4 <a href="#">CHEM3404</a> Lab for CHEM3403 1	Co-op	Co-op	<a href="#">ENGW3302*</a> Adv. Writing for Prof. 4 Elective General Elective 1 4
<b>Year 4 MC</b>	Co-op	<a href="#">CHME3000</a> Prof. Issues in Eng'g. 1 <a href="#">CHME4512</a> ChE Process Control 4 <a href="#">CHME4703</a> Cpstn 2: Chem. Proc. Design 4 <a href="#">CHME4510</a> ChE Kinetics 4 <a href="#">CHEM3403</a> Quantum Chem & Spec 4 <a href="#">CHEM3404</a> Lab for CHEM3403 1		
<b>Year 4 MD</b>	<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 <a href="#">CHME4510</a> ChE Kinetics 4 <a href="#">CHME4701</a> Cpstn 1: Sep. & Proc. Anlys. 4 <a href="#">NU CORE</a> Social Science Lvl. 1 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 <a href="#">BIOL1115</a> Biology 4	<b>Must meet with academic advisor to determine scheduling of these classes:</b> Elective General Elective 2 4 Elective General Elective 3 4 Elective General Elective 4 4	

Revised 09/11/15

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

English course prefixes have changed from ENGL to ENGW. [ENGW1111](#) is equivalent to ENGL1111. [ENGW3302](#) is equivalent to ENGL3302.

**NU Core Elective Requirements: 2 required** - (One Arts Lvl 1 OR one Humanities Lvl 1) AND (one Social Science Lvl. 1)

**General Elective Requirements: 4 required** - Any 4 SH course that is not remedial or repetitive

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

**Advanced Engineering Elective Requirements:** Must be 4000-5999 level engineering course; may be within any engineering major. A faculty approved undergraduate research project can be substituted for this requirement. Research must be 4 Semester Hours and the research faculty supervising the research project 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 the DARS system provides a degree audit utility for students.