

**Bachelor of Science in Chemical Engineering**  
**CURRICULUM OUTLINE - Class of 2013, 2014, 2015, 2016**

	FALL	SPRING	SUMMER 1	SUMMER 2
<b>Year 1</b>	MATH1341 Calculus 1 for Engrs. 4 CHEM1151 General Chem for Engrs. 4 CHEM1153 Recitation for CHEM1151 0 GE1000 Intro. to Eng'g. 1 GE1110 Eng'g. Design 4 NU CORE Arts or Humanities Lvl. 1 4	MATH1342 Calculus 2 for Engrs. 4 PHYS1151 Physics 1 for Engrs. 4 PHYS1152 Physics 1 Lab 1 PHYS1153 ILS for PHYS1151 0 GE1111 Eng'g. Probl. Solv. & Comp. 4 ENGL1111 College Writing 4	Vacation	Vacation
<b>Year 2 AA</b>	MATH2321 Calculus 3 for Engrs. 4 CHEM2311 Organic Chemistry 1 4 CHEM2312 Lab for CHEM2311 1 CHEM2319 Recitation for CHEM2311 0 PHYS1155 Physics 2 for Engrs. 4 PHYS1156 Physics 2 Lab 1 PHYS1157 ILS for PHYS1155 0 CHME2308 ChE Conservation Princ. 4	MATH2341 Diff. Eq./Lin. Alg. 4 BIOL1115 Biology 4 BIOL1116 Lab for BIOL1115 1 CHME2000 Intro. to Eng'g. Co-op 1 CHME2310 Transport Processes 1 4 CHME2311 Lab for CHME2310 1 CHME2320 ChE Thermodynamics 1 4	Vacation	Co-op
<b>Year 2 BA</b>	MATH2321 Calculus 3 for Engrs. 4 CHEM2311 Organic Chemistry 1 4 CHEM2312 Lab for CHEM2311 1 CHEM2319 Recitation for CHEM2311 0 PHYS1155 Physics 2 for Engrs. 4 PHYS1156 Physics 2 Lab 1 PHYS1157 ILS for PHYS1155 0 CHME2000 Intro. to Eng'g. Co-op 1 CHME2308 ChE Conservation Princ. 4	Co-op	Co-op	CHEM2313 Organic Chem. 2 4 CHEM2314 Lab for CHEM2313 1 CHEM2320 Recitation CHEM2313 0 CHME2320 ChE Thermo. 1 4
<b>Year 3 AA</b>	Co-op	CHEM2313 Organic Chem. 2 4 CHEM2314 Lab for CHEM2313 1 CHEM2320 Recitation for CHEM2313 0 CHME3312 Transport Processes 2 4 CHME3313 Lab for CHME3312 2 CHME3322 ChE Thermodynamics 2 4	*ENGL3302 Advanced Writing 4 Elective General Elective 1 4	Co-op
<b>Year 3 BA</b>	MATH2341 Diff. Eq./Lin. Alg. 4 BIOL1115 Biology 4 BIOL1116 Lab for BIOL1111 1 CHME2310 Transport Processes 1 4 CHME2311 Lab for CHME2310 1 CHME3322 ChE Thermodynamics 2 4	Co-op	Co-op	*ENGL3302 Advanced Writing 4 NU CORE Social Science Lvl. 1 4
<b>Year 4 AA</b>	Co-op	CHEM3403 Physical Chem. 2 4 CHEM3404 Lab for CHEM3403 1 CHME3000 Prof. Issues in Eng'g. 1 CHME4510 ChE Kinetics 4 CHME4701 Separations & Proc. Anlys. 4 Elective General Elective 2 4	NU CORE Social Science Lvl. 1 4 Elective General Elective 3 4	Co-op
<b>Year 4 BA</b>	CHEM3403 Physical Chem. 2 4 CHEM3404 Lab for CHEM3404 1 CHME3000 Prof. Issues in Eng'g. 1 CHME3312 Transport Processes 2 4 CHME3313 Lab for CHME3312 2 Elective General Elective 1 4	Co-op	Co-op	Vacation
<b>Year 5 AA</b>	Co-op	CHME4512 ChE Process Control 4 CHME4703 ChE Design 2 4 Elective Adv. Eng'g. Elective 4 Elective General Elective 4 4		
<b>Year 5 BA</b>	CHME4510 ChE Kinetics 4 CHME4701 Separations & Proc. Anlys. 4 Elective General Elective 2 4 Elective General Elective 3* 4	CHME4512 ChE Process Control 4 CHME4703 ChE Design 2 4 Elective Adv. Eng'g. Elective 4 Elective General Elective 4 4		* Chem.Eng'g. Elective may be taken here for this POA

Revised 06/09/11

\*ENGL3301 is an acceptable substitution for engineering majors.

**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: Lauren Machunis, 220SN, 617-373-2154

**Advanced Engineering Elective Requirements:** Must be 4000-5000 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.