

## Bachelor of Science in Chemical Engineering - 4 Year 2 Co-op Program

### CURRICULUM OUTLINE - Class of 2014, 2015

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

Revised 07/08/11

\*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