

## Bachelor of Science in Chemical Engineering & Physics

### CURRICULUM OUTLINE Class of 2012, 2013, 2014, 2015, 2016

	FALL			SPRING			SUMMER 1			SUMMER 2		
<b>Year 1</b>	MATH1341	Calculus 1 for Engrs.	4	MATH1342	Calculus 2 for Engrs.	4	PHYS1155	Physics 2 for Engrs.	4	Vacation		
	CHEM1151	General Chem for Engrs.	4	PHYS1151	Physics 1 for Engrs.	4	PHYS1156	Physics 2 Lab	1			
	CHEM1153	Recitation for CHEM1151	0	PHYS1152	Physics 1 Lab	1	PHYS1157	ILS for PHYS1155	0			
	GE1000	Intro to Eng'g.	1	PHYS1153	ILS for PHYS1151	0	NU CORE	Social Science Lvl. 1	4			
	GE1110	Eng'g. Design	4	GE1111	Eng'g. Probl. Solv. & Comp.	4						
	NU CORE	Arts or Humanities Lvl. 1	4	ENGL1111	College Writing	4						
<b>Year 2 AA</b>	MATH2321	Calculus 3 for Engrs.	4	MATH2341	Diff. Eq./Lin. Alg.	4	Vacation			Co-op		
	CHEM2311*	Organic Chemistry 1 (or PHYS2303)	4	PHYS2303**	Modern Physics (or CHEM2311/2312)	4						
	CHEM2312	Lab for CHEM2311	1	CHME2000	Intro to Eng'g. Co-op	1						
	CHEM2319	Recitation for CHEM2311	0	CHME2310	Transport Processes 1	4						
	PHYS2371	Electronics	4	CHME2311	Lab for CHME2310	1						
	PHYS2372	Electronics Lab	0	CHME2320	ChE Thermodynamics 1	4						
	CHME2308	ChE Conservation Princ.	4									
<b>Year 3 AA</b>	Co-op			CHEM2313	Organic Chemistry 2	4	PHYS3600	Adv. Physics Lab	4	Co-op		
				CHEM2314	Lab for CHEM2314	1	ENGL3302	Advanced Writing	4			
				CHEM2320	Recitation for CHEM2313	0						
				CHME3312	Transport Processes 2	4						
				CHME3313	Lab for CHME3312	2						
				CHME3322	ChE Thermodynamics 2	4						
				BIOL1115	Biology for Engineers	4						
				BIOL1116	Lab for BIOL1115	1						
<b>Year 4 AA</b>	Co-op			PHYS3601	Classical Dynamics	4	Vacation			Co-op		
				PHYS3602	Electricity & Magnetism	4						
				CHME3000	Prof. Issues in Eng'g.	1						
				CHME4510	ChE Kinetics	4						
				CHME4701	Separations & Proc. Anlys.	4						
<b>Year 5 AA</b>	Co-op			PHYS5115	Quantum Mechanics	4	† Scheduled in odd years only ‡ Scheduled in even years * Scheduled in both Fall & Spring					
				PHYS5318	Adv. Phy. Lab 2	4						
				CHME4703	ChE Design 2	4						
				Elective	Technical Elective	4						

Revised 05/24/11

\*ENGL3301 is an acceptable substitution for engineering majors.

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

Please consult with your advisor: Lauren Machunis, 220SN, 617-373-2154