

Bachelor of Science in Chemical Engineering
CURRICULUM OUTLINE - Class of 2016, 2017, 2018, 2019, 2020

Sample Only – Actual Curriculum Sequence May Deviate from Sample

	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.	3						
	CHEM1153	Recitation for CHEM1151	0	PHYS1152	Physics 1 Lab	1						
	GE1000	Intro. to Eng'g.	1	PHYS1153	ILS for PHYS1151	1						
	GE1110	Eng'g. Design	4	GE1111	Eng'g. Probl. Solv. & Comp.	4						
	NU CORE	Arts or Humanities Lvl. 1	4	ENGW1111	College Writing	4						
Year 2 AA	MATH2321	Calculus 3 for Engrs.	4	MATH2341	Diff. Eq./Lin. Alg.	4	Vacation		Co-op			
	CHEM2311	Organic Chemistry 1	4	CHEM2313	Organic Chem. 2	4						
	CHEM2312	Lab for CHEM2311	1	CHEM2314	Lab for CHEM2313	1						
	CHEM2319	Recitation for CHEM2311	0	CHEM2320	Recitation for CHEM2313	0						
	PHYS1155	Physics 2 for Engrs.	3	CHME2000	Intro. to Eng'g. Co-op	1						
	PHYS1156	Physics 2 Lab	1	CHME2310	Transport Processes 1	4						
	PHYS1157	ILS for PHYS1155	1	CHME2311	Lab for CHME2310	2						
CHME2308	ChE Conservation Princ.	4	CHME2320	ChE Thermodynamics 1	4							
Year 2 BA	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.	3									
	PHYS1156	Physics 2 Lab	1									
	PHYS1157	ILS for PHYS1155	1									
	CHME2000	Intro. to Eng'g. Co-op	1									
CHME2308	ChE Conservation Princ.	4										
Year 3 AA	Co-op			BIOL1115	Biology	4	ENGW3302*	Adv. Writing for Prof.	4	Co-op		
				CHME3312	Transport Processes 2	4	Elective	General Elective 1	4			
				CHME3313	Lab for CHME3312	2						
				CHME3322	ChE Thermodynamics 2	4						
Year 3 BA	MATH2341	Diff. Eq./Lin. Alg.	4	Co-op	Co-op				ENGW3302*	Adv. Writing for Prof.	4	
	BIOL1115	Biology	4						NU CORE	Social Science Lvl. 1	4	
	CHME2310	Transport Processes 1	4									
	CHME2311	Lab for CHME2310	2									
	CHME3322	ChE Thermodynamics 2	4									
Year 4 AA	Co-op			CHEM3403	Quantum Chem & Spec.	4	NU CORE	Social Science Lvl. 1	4	Co-op		
				CHEM3404	Lab for CHEM3403	1	Elective	General Elective 3	4			
				CHME3000	Prof. Issues in Eng'g.	1						
				CHME4510	ChE Kinetics	4						
				CHME4701	Cpstn 1: Sep. & Proc. Anlys.	4						
Elective	General Elective 2	4										
Year 4 BA	CHEM3403	Quantum Chem & Spec.	4	Co-op	Co-op				Vacation			
	CHEM3404	Lab for CHEM3403	1									
	CHME3000	Prof. Issues in Eng'g.	1									
	CHME3312	Transport Processes 2	4									
	CHME3313	Lab for CHME3312	2									
Elective	General Elective 1	4										
Year 5 AA	Co-op			CHME4512	ChE Process Control	4						
				CHME4703	Cpstn 2: Chem. Proc. Design	4						
				Elective	Adv. Eng'g. Elective	4						
				Elective	General Elective 4	4						
Year 5 BA	CHME4510	ChE Kinetics	4	CHME4512	ChE Process Control	4						
	CHME4701	Cpstn 1: Sep. & Proc. Anlys.	4	CHME4703	Cpstn 2: Chem. Proc. Design	4						
	Elective	General Elective 2	4	Elective	Adv. Eng'g. Elective	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.