

Bachelor of Science in Chemical Engineering & Physics

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 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. 3 PHYS1152 Physics 1 Lab 1 PHYS1153 ILS for PHYS1151 1 GE1111 Eng'g. Probl. Solv. & Comp. 4 ENGW1111 College Writing 4	PHYS1155 Physics 2 for Engrs. 3 PHYS1156 Physics 2 Lab 1 PHYS1157 ILS for PHYS1155 1 NU CORE Social Science Lvl. 1 4	Vacation
Year 2 AA	MATH2321 Calculus 3 for Engrs. 4 CHEM2311 Organic Chemistry 1 (or PHYS2303) 4 CHEM2312 Lab for CHEM2311 1 CHEM2319 Recitation for CHEM2311 0 PHYS2371 Electronics 4 PHYS2372 Electronics Lab 0 CHME2308 ChE Conservation Princ. 4	MATH2341 Diff. Eq./Lin. Alg. 4 PHYS2303 Modern Physics (or CHEM2311/2312/2319) 4 CHME2000 Intro to Eng'g. Co-op 1 CHME2310 Transport Processes 1 4 CHME2311 Lab for CHME2310 2 CHME2320 ChE Thermodynamics 1 4	Vacation	Co-op
Year 3 AA	Co-op	CHEM2313 Organic Chemistry 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 BIOL1115 Biology 4	PHYS3600 Adv. Physics Lab 4 ENGW3302* Adv. Writing for Prof. 4	Co-op
Year 4 AA	Co-op	PHYS3601** Classical Dynamics 4 PHYS3602 Electricity & Magnetism 4 CHME3000 Prof. Issues in Eng'g. 1 CHME4510 ChE Kinetics 4 CHME4701 Cpstn 1: Sep. & Proc. Anlys. 4	Vacation	Co-op
Year 5 AA	Co-op	PHYS5115 Quantum Mechanics 4 PHYS5318 Adv. Phy. Lab 2 4 CHME4703 Cpstn 2: Chem. Proc. Design 4 Elective Adv. Eng'g Elective 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)

Please consult with your advisor in 220SN, 617-373-2154

** **PHYS 3601 Classical Dynamics** is offered fall and spring semesters of even years only. Please meet with academic advisor to discuss scheduling options for Year 4 of odd years.

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.