### 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**
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**Year 1**
MATH1341 | Calculus 1 for Engrs. | 4 | MATH1342 | Calculus 2 for Engrs. | 4 | PHYS1155 | Physics 2 for Engrs. | 3
CHEM1515 | General Chem for Engrs. | 4 | PHYS1151 | Physics 1 for Engrs. | 3 | PHYS1156 | Physics 2 Lab | 1
CHEM1153 | Recitation for CHEM1151 | 0 | PHYS1152 | Physics 1 Lab | 1 | PHYS1157 | ILS for PHYS1151 | 1
GE1000 | Intro to Eng'g. | 1 | PHYS1153 | ILS for PHYS1151 | 1 | NU CORE | Social Science Lvl. 1 | 4
GE1110 | Eng'r. Design | 4 | GE1111 | Eng'g. Probl. Solv. & Comp. | 4 | ENGW1111 | College Writing | 4
NU CORE | Arts or Humanities Lvl. 1 | 4 |   |   |   |   | Co-op |

**Year 2 AA**
MATH2321 | Calculus 3 for Engrs. | 4 | MATH2341 | Diff. Eq./Lin. Alg. | 4 |   |   |   |
CHEM2311 | Organic Chemistry 1 | 4 | PHYS2303 | Modern Physics | 4 |   |   |   |
(OR PHYS2303) |   |   |   |   |   |   |   |   |
CHEM2312 | Lab for CHEM2311 | 1 | CHEM2000 | (or CHEM2311/2312/2319) | 1 |   |   |   |
CHEM2319 | Recitation for CHEM2311 | 0 | CHEM2310 | Intro to Eng'g. Co-op | 1 |   |   |   |
PHYS2371 | Electronics | 4 | CHEM2311 | Transport Processes 1 | 4 |   |   |   |
PHYS2372 | Electronics Lab | 0 | CHEM2312 | Lab for CHME2310 | 2 |   |   |   |
CHME2308 | CHE Conservation Princ. | 4 | CHME2320 | CHE Thermodynamics 1 | 4 |   |   |   |

**Year 3 AA**
|   |   |   |   |   |   |   |   |   |

**Year 4 AA**
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**Year 5 AA**
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*ENGW3302* 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

**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.