

Bachelor of Science/Master of Science Chemical Engineering

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

| | 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 BA | MATH2321 | Calculus 3 for Engrs. | 4 | Co-op | Co-op | CHEM2313 | Organic Chemistry 2 | 4 |
| | CHEM2311 | Organic Chemistry 1 | 4 | | | CHEM2314 | Lab for CHEM2314 | 1 |
| | CHEM2312 | Lab for CHEM2311 | 1 | | | CHEM2320 | Rec'tion for CHEM2313 | 0 |
| | CHEM2319 | Recitation for CHEM2311 | 0 | | | CHME2320 | ChE Thermo. 1 | 4 |
| | PHYS1155 | Physics 2 for Engrs. | 4 | | | | | |
| | PHYS1156 | Physics 2 Lab | 1 | | | | | |
| | PHYS1157 | ILS PHYS1155 | 0 | | | | | |
| | CHME2000 | Intro to Eng'g. Co-op | 1 | | | | | |
| | CHME2308 | ChE Conservation Princ. | 4 | | | | | |
| Year 3 ZG | MATH2341 | Diff. Eq./Lin. Alg. | 4 | Co-op | Co-op | *ENGL3302 | Advanced Writing | 4 |
| | BIOL1115 | Biology for Engrs. | 4 | | | NU CORE | Social Science Lvl. 1 | 4 |
| | BIOL1116 | Lab for BIOL1115 | 1 | | | | | |
| | CHME2310 | Transport Processes 1 | 4 | | | | | |
| | CHME2311 | Lab for CHME2310 | 1 | | | | | |
| | CHME3322 | ChE Thermodynamics 2 | 4 | | | | | |
| Year 4 ZG | CHEM3403 | Physical Chemistry 2 | 4 | CHME4510 | ChE Kinetics | 4 | Vacation | Vacation |
| | CHEM3404 | Lab for CHEM3403 | 1 | CHME5xxx | Senior/Grad Elective 1 | 4 | | |
| | CHME3000 | Prof. Issues in Eng'g. | 1 | Grad. Elect | Grad. Elective 2 | 4 | | |
| | CHME3312 | Transport Processes 2 | 4 | CHME7350 | Transport Phenomena | 4 | | |
| | CHME3313 | Lab for CHME3312 | 2 | | | | | |
| | CHME7320 | ChE Math | 4 | | | | | |
| Year 5 ZG | Elective | UG General Elective | 4 | CHME4512 | Process Control | 4 | | |
| | CHME4701 | Separations & Proc. Anlys. | 4 | CHME4703 | ChE Design 2 | 4 | | |
| | CHME7330 | ChE Thermodynamics | 4 | CHME7340 | ChE Kinetics | 4 | | |
| | Grad. Elect | Grad. Elective 3 | 4 | CHME7xxx | Special Topics | 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)

Electives may be interchanged. Please consult with your advisor: Lauren Machunis, 220SN 617-373-2154

Students interested in following for the BS/MS program should plan on following the BA pattern of attendance.

Coursework must be completed with a minimum GPA of 3.4 to be considered for the program.

Students will be required to meet with an undergraduate advisor and a graduate advisor to petition into the program.

Students are encouraged to meet with their Financial Aid counselor and a Customer Service representative to review any financial questions.

16SH (4 Courses) from Graduate Program are used towards requirements in Undergraduate Program as general or major requirements.

Graduate electives outside the department curriculum may be applied to the degree requirements by petitioning the department's graduate committee.