### BACHELOR OF SCIENCE IN BIOENGINEERING

**CURRICULUM OUTLINE - CLASS OF 2021**

*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 |  |  
CHEM1151 - General Chem. for Engrs. 4 | PHYS1171 - Physics 1 for BioE 3 |  |  
CHEM1153 - Recitation for CHEM1151 0 | PHYS1172 - Physics 1 Lab 1 |  |  
GE 1501 - Cornerstone of Eng’g. 1 4 | PHYS1173 - ILS for PHYS1151 1 |  |  
GE 1500 - Intro. to Eng’g. 1 1 | GE 1502 - Cornerstone of Eng’g. 2 4 |  |  
ENGW1111 - College Writing 4 |  | Vacation | Vacation  
**Year 2 (AA)**
BIOE2365 - BioE Meas. Exp. & Stats. 4 | BIOE2366 - Lab for BIOE2365 1 |  |  
BIOE2366 - Lab for BIOE2365 1 | BIOE2350 - Biomechanics 4 |  |  
BIOE2366 - Lab for BIOE2365 1 | BIOE2355 - Quant. Physiology for BioE 4 |  |  
BIOE2366 - Lab for BIOE2365 1 | BIOL1115 - Org. Chem 1 4 |  |  
BIOE2366 - Lab for BIOE2365 1 | BIOL1115 - Lab for BIOE2365 1 |  |  
PHYS1175 - Lab for PHYS1175 1 | BIOL1115 - Recitation for CHEM2311 0 |  |  
PHYS1175 - Lab for PHYS1175 1 | BIOL1115 - Lab for BIOE2365 1 |  |  
PHYS1175 - ILS for PHYS1175 1 | BIOL1115 - Lab for BIOE2365 1 |  |  
PHYS1175 - Lab for PHYS1175 1 | BIOL1115 - Lab for BIOE2365 1 |  |  
**Year 3 (AA)**
Co-op | BIOE3310 - Transport & fluids 4 |  |  
BIOE3310 - Transport & fluids 4 |  | Co-op |  
BIOE3310 - Transport & fluids 4 |  | Co-op |  
BIOE3310 - Transport & fluids 4 |  | Co-op |  
BIOE3310 - Transport & fluids 4 |  | Co-op |  
**Year 2 (BB)**
BIOE2300 - Intro to Engrg. Co-op 1 |  |  | Vacation |  
BIOE2365 - BioE Meas. Exp. & Stats. 4 |  |  |  
BIOE2366 - Lab for BIOE2365 1 |  |  |  
BIOE2366 - Lab for BIOE2365 1 |  |  |  
BIOE2366 - Lab for BIOE2365 1 |  |  |  
BIOE2366 - Lab for BIOE2365 1 |  |  |  
BIOE2366 - Lab for BIOE2365 1 |  |  |  
BIOE2366 - Lab for BIOE2365 1 |  |  |  
**Year 3 (BB)**
BIOE2350 - Biomechanics 4 |  |  |  
BIOE2355 - Quant. Physiology for BioE 4 |  |  |  
BIOE2355 - Quant. Physiology for BioE 4 |  |  |  
BIOE2355 - Quant. Physiology for BioE 4 |  |  |  
BIOE2355 - Quant. Physiology for BioE 4 |  |  |  
BIOE2355 - Quant. Physiology for BioE 4 |  |  |  
**Year 4 (AA)**
Co-op | BIOE3000 - Prof. Issues in Engg. 1 4 |  |  
BIOE3000 - Prof. Issues in Engg. 1 4 |  |  |  
BIOE3000 - Prof. Issues in Engg. 1 4 |  |  |  
BIOE3000 - Prof. Issues in Engg. 1 4 |  |  |  
BIOE3000 - Prof. Issues in Engg. 1 4 |  |  |  
**Year 4 (BB)**
BIOE3000 - Prof. Issues in Engg. 1 4 |  |  |  
BIOE3120 - Bioelectricity 4 |  |  
BIOE3120 - Bioelectricity 4 |  |  |  
BIOE3120 - Bioelectricity 4 |  |  |  
BIOE3120 - Bioelectricity 4 |  |  |  
BIOE3120 - Bioelectricity 4 |  |  |  
**Year 5 (AA)**
Co-op | BIOE3120 - Bioelectricity 4 |  |  
BIOE3120 - Bioelectricity 4 |  |  |  
BIOE3120 - Bioelectricity 4 |  |  |  
BIOE3120 - Bioelectricity 4 |  |  |  
BIOE3120 - Bioelectricity 4 |  |  |  
**Year 5 (BB)**
BIOE3120 - Bioelectricity 4 |  |  |  
BIOE3120 - Bioelectricity 4 |  |  |  
BIOE3120 - Bioelectricity 4 |  |  |  
BIOE3120 - Bioelectricity 4 |  |  |  
BIOE3120 - Bioelectricity 4 |  |  |  

*ENGW3315 is an acceptable substitution for engineering majors.*

Students may take ENGW 3302 or ENGW 3315 to fulfill their Advanced Writing in the Technical Professions requirement.

NUpath requirements Interpreting Culture (IC), Societies and Institutions (SI), and Differences and Diversity (DD) are not explicitly satisfied by required engineering courses. Students are responsible for satisfying these requirements, and if these are not fulfilled in engineering courses, should use General Electives to do so.

General Electives are academic, non-remedial, non-repetitive courses.

**BIOE Electives:** 5 required - 2 courses minimum from designated BIOE concentration; 3 from list of approved BIOE technical electives.

**BIOE Concentrations:** Bioimaging & Signal Processing, Cell & Tissue Engineering, Biomechanics, or Biomedical Devices.

Electives may be interchanged. Please consult with your advisor: Eve Young - 220 Snell, 617-373-2154, e.young@neu.edu

The registrar’s website provides a listing of degree requirements and the DARS system provides a degree audit utility for students.

Revised 5/05/16