### BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING

#### COMBINED MAJOR - ELECTRICAL ENGINEERING AND PHYSICS

**CURRICULUM OUTLINE - CLASS OF 2021, 2022, 2023**

*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
CHEM1151 General Chem. for Engrs. | 4 | PHYS1163 Physics 2 | 4
CHEM1153 Recitation for CHEM1151 | 0 | PHYS1156 Physics 2 Lab | 1
PHYS1161 Physics 1 | 4 | GE1502 Cornerstone of Engineering 2 | 4
PHYS1162 Physics 1 Lab | 1 | ENG1111 College Writing | 4
GE1000 Intro to Eng'g | 1 | GE1000 Cornerstone of Engineering 1 | 4

**Year 2**

**AA**
MATH2321 Calculus 3 for Engrs. | 4 | PHYS2305 Therm & Stat. Mech. | 4
MATH2341 Diff. Eq./Lin. Alg. | 4 | ECE2300 Intro to Eng'g. Coop | 1
PHYS2303 Modern Physics | 4 | ECE2310 Embedded Design: Enabling Robots | 4
EECE2350 Circuits/Signals: Biomed Apps | 5 | EEExxx EE Fundamentals | 4/5

- **Elective**
- **General Elective**

**Year 3**

**AA**

- **Co-op**

- **Elective**

**Year 4**

**AA**

- **Co-op**

**Year 5**

**AA**

- **Co-op**

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The Capstone Design Courses are taken as follows: (EECE4790 - Summer 1 and EECE4792 - Spring) OR (EECE4790 - Summer 2 and EECE4792 - Fall)

* ENGW3315 is an acceptable substitution for engineering majors.

**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, they should take non-engineering electives to do so. General Electives are academic, non-remedial, non-repetitive courses.

#### Required General Electives

- **3 Required General Electives**

#### Required Electrical and Computer Engineering Fundamentals

- **3 Required CE Fundamentals**

Please check with your advisor when taking a general elective in overlapping disciplines:

- Last Name A-L: Ellen Zierk - e.zierk@northeastern.edu

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

Revised March 2018