### BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

**COMBINED MAJOR - COMPUTER ENGINEERING AND COMPUTER SCIENCE**

**CURRICULUM OUTLINE - CLASS OF 2021, 2022, 2023, 2024**

*Sample Only – Actual Curriculum Sequence May Deviate from Sample*

### 2 Required General Electives

- **2 Required CE Fundamentals**: EEECE2322/2323 - Fundamentals Digital Design & Lab AND EEECE2540 - Fundamentals Networks and *CS3000 - Algorithms Data (formerly, CS4800)

*Effective Fall 2018 CS3000 Algorithms replaces CS4800*

### 3 Required EE Fundamentals:

- EEECE2412/2413 - Fundamentals Electronics 1 & lab OR EEECE2520 - Fundamentals Linear Systems OR EEECE2530/2531 - Fundamentals Electromagnetics & lab

*EE Fundamental Courses not taken to meet the above requirements, may be taken as a technical elective.*

### Technical Elective Requirements:

- **2 ECE technical electives and 2 Khoury College of Computer Sciences (CS) technical electives**

#### 2 ECE Elective courses from the following approved list:

- EEECE2412-2413, EEECE2520, EEECE3324-EECE3468, EEECE4512-EECE4698, EEECE4991-EECE4993, EEECE5155-EECE5698, ENGR5670, GE4608

*2 CS courses from the following approved list:

- Approved List: CS2500, CS3200, CS3540, CS3700, CS4740, CS4800, CS4410, CS4520-4610, CY4740, CS4850, [JS4200-JS4700]*

*Note: AP credit for MATH280 will substitute for MATH3081 requirement.*

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

- Last Name A-L: Jose Roman - j.roman@northeastern.edu
- Last Name M-Z: Nicole Diamond - n.diamond@northeastern.edu

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

### CE/CS Program Changes Effective Spring 2018

Prior to Spring 2018: Students who have completed both EEECE2560 and CS4800 will count EEECE2560 as one of their EE technical electives.

Students who have completed CS3700 can count this as an CS Technical elective. CS3700 will remain on the approved CS technical elective list.

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### Revised March/2018

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 they are not satisfied in engineering courses, should use General Electives to do so. General Electives are academic, non-remedial, non-repeat courses.

**Technical Elective Requirements:**

- **2 ECE technical electives and 2 Khoury College of Computer Sciences (CS) technical electives**

**2 ECE Elective courses from the following approved list:**

- EEECE2412-2413, EEECE2520, EEECE3324-EECE3468, EEECE4512-EECE4698, EEECE4991-EECE4993, EEECE5155-EECE5698, ENGR5670, GE4608

*2 CS courses from the following approved list:

- Approved List: CS2500, CS3200, CS3540, CS3700, CS4740, CS4800, CS4410, CS4520-4610, CY4740, CS4850, [JS4200-JS4700]*

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