

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING

PLUSONE CURRICULUM OUTLINE - CLASS OF 2025

Sample Only – Actual Curriculum Sequence May Deviate from Sample

	FALL	SPRING	SUMMER 1	SUMMER 2
Year 1	MATH1341 Calculus 1 for Engrs. 4 CHEM1151 General Chem for Engrs. 4 CHEM1153 Recitation for CHEM1151 0 GE1000 Intro to Eng'g. 1 GE1501 Cornerstone of Engineering 1 4 ENGW1111 College Writing 4	MATH1342 Calculus 2 for Engrs. 4 PHYS1151 Physics 1 for Engrs. 3 PHYS1152 Physics 1 Lab 1 PHYS1153 ILS for PHYS1151 1 GE1502 Cornerstone of Engineering 2 4 Elective General Elective 4	Elective General Elective 4 Elective General Elective 4	Vacation
Year 2 MC	MATH2341 Diff. Eq./Lin.Alg. 4 PHYS1155 Physics 2 for Engrs. 3 PHYS1156 Physics 2 Lab 1 PHYS1157 ILS for PHYS1155 1 EECE2160 Embedded Design: Enabling Robotic 4 Elective General Elective 4	CS1800 Discrete Structures 4 CS1802 Recitation for CS1800 1 ENCP2000 Intro to Eng'g. Coop 1 EECE2150 Circuits/Signals: Biomed Apps 5 EECExxxx CE Fundamentals 4/5 EECExxxx CE Fundamentals 4/5	MATH3081 Prob & Statistics 4 Elective General Elective 4	Co-op
Year 2 MD	MATH2341 Diff. Eq./Lin.Alg. 4 PHYS1155 Physics 2 for Engrs. 3 PHYS1156 Physics 2 Lab 1 PHYS1157 ILS for PHYS1155 1 EECE2160 Embedded Design: Enabling Robotic 4 ENCP2000 Intro to Eng'g. Coop 1 Elective General Elective 4	Co-op	Co-op	MATH3081 Prob & Statistics 4 Elective General Elective 4
Year 3 MC	*ENGW330: Adv Writing in the Tech Prof (to be taken online) 4 Co-op	EECExxxx CE Fundamentals 4/5 EECExxxx EE Fundamentals 4/5 ENCP3000 Prof. Issues in Eng'g. 1 Elective EECE Tech Elective 1 4 Graduate Course 1 4	EECE4790 Capstone 1 4 Elective EECE Tech Elective 4	Co-op
Year 3 MD	CS1800 Discrete Structures 4 CS1802 Recitation for CS1800 1 EECE2150 Circuits/Signals: Biomed Apps. 5 EECExxxx CE Fundamentals 4/5 EECExxxx CE Fundamentals 4/5 ENCP3000 Prof. Issues in Eng'g 1	*ENGW330: Adv Writing in the Tech Prof (to be taken online) 4 Co-op	Co-op	EECE4790 Capstone 1 4 Elective EECE Tech Elective 1 4
Year 4 MC	Co-op	EECE4792 Capstone Design 2 4 Elective EECE Tech Elective 3 4 Elective EECE Tech Elective 4 4 Graduate Course 2 4		
Year 4 MD	EECE4792 Capstone Design 2 4 EECExxxx CE Fundamentals 4/5 EECExxxx EE Fundamentals 4/5 Graduate Course 1 4	Elective EECE Tech Elective 2 4 Elective EECE Tech Elective 3 4 Elective EECE Tech Elective 4 4 Graduate Course 2 4		

Revised June/2020

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 **7** Required General Electives (A maximum of **2** Graduate Courses can be used to fulfill this requirement)

3 Required **CE** Fundamentals: EECE2322/2323: Fundamentals Digital Design & Lab **AND** EECE2540 - Fundamentals Networks **AND** EECE2560 - Fundamentals Algorithms

1 Required **EE** Fundamentals: EECE2412/2413 - Fundamentals Electronics 1 & lab **OR** EECE2520 - Fundamentals Linear Systems **OR** EECE 2530/2531 - Fundamentals Electromagnetics & lab. (EE Fundamentals not taken to meet the above requirement may also be taken as a technical elective.)

Technical Elective Requirements: 4 EECE technical electives:

(EECE2412-2530), EECE2750, EECE3154 (EECE3324-EECE4698), EECE4991-EECE4993), (EECE5115-EECE5698), GE4608, ENGR5670

2 CS/CY/IS courses from the following approved list may be taken toward the EECE technical elective requirement:

Approved List: CY2550, (CS3200-CS3500), (CS3540-CS3800), (CS4100-CY4770), CS4850, (IS4200- IS4700)

Note: AP credit for MATH2280 will substitute for MATH3081 requirement.

Please speak with your academic advisor regarding possibilities of Dialogues of Civilization courses and study abroad.

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

[Find your Academic Advisor](#)

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

Requirements:

Students will be required to meet with an undergraduate advisor to petition to enter the PlusOne program.

Students are encouraged to meet with their financial aid counselor to review any financial questions.

4 semesters of coursework at Northeastern University must be completed with a minimum GPA of 3.25 to join the PlusOne program.

For more information:

<https://registrar.northeastern.edu/article/plusone-program-accelerated-bachelorgraduate-degree-programs/>

MASTER OF SCIENCE IN ELECTRICAL AND COMPUTER ENGINEERING

PLUSONE CURRICULUM OUTLINE - CLASS OF 2025

PlusOne Year	FALL	SPRING
	Graduate Course 3 Graduate Course 4 Graduate Course 5	Graduate Course 6 Graduate Course 7 Graduate Course 8