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

MATH1342 Calculus 1 for Engrs. 4 MATH1342 Calculus 1 for Engrs. 4 Elective General Elective 4
CHEM1515 General Chem for Engrs. 4 PHYS1515 Physics 1 for Engrs. 3 Elective General Elective 4
CHEM1515 Recitation for CHEM1515 0 PHYS1515 Physics 1 Lab 1
GE1000 Intro to Engr’s. 1 PHYS1515 ILS for PHYS1515 1
GE1501 Cornerstone of Engineering 1 4 ENG1501 Cornerstone of Engineering 2 4
ENGW1113 College Writing 4 Elective General Elective 4
MATH2341 Diff. Eq./Lin.Alg. 4 CS1800 Discrete Structures 4 MATH3801 Prob & Statistics 4

Year 2

MC

PHYS1515 Physics 2 for Engrs. 3 CS1800 Recitation for CS1800 1 Elective General Elective 4
PHYS1515 Physics 2 Lab 1 ENCP2000 Intro to Engg. Coop 1 Co-op
PHYS1515 ILS for PHYS1515 1 EECE1550 Circuits/Signals: Biomed Apps 5
EECE1560 Embedded Design: Enabling Robotic 4 EECExxxx CE Fundamentals 4/5
Elective General Elective 4 EECExxxx CE Fundamentals 4/5

MD

MATH2341 Diff. Eq./Lin.Alg. 4
PHYS1515 Physics 2 for Engrs. 3
PHYS1515 Physics 2 Lab 1 Co-op
PHYS1515 ILS for PHYS1515 1
EECE1560 Embedded Design: Enabling Robotic 4
ENCP2000 Intro to Engg. Coop 1
EECE1560 Embedded Design: Enabling Robotic 4
Elective General Elective 4

MC

*ENGW3305 Adv Writing in the Tech Prof (to be taken online) 4
EECExxxx CE Fundamentals 4/5
EECExxxx EE Fundamentals 4/5
ENCP3000 Prof. Issues in Engg. 1

MD

CS1800 Discrete Structures 4 *ENGW3305 Adv Writing in the Tech Prof (to be taken online) 4
EECE1550 Circuits/Signals: Biomed Apps. 5
EECExxxx CE Fundamentals 4/5
EECExxxx CE Fundamentals 4/5
ENCP3000 Prof. Issues in Engg. 1

MC

EECE4792 Capstone Design 2 4 Co-op
EECExxxx CE Fundamentals 4/5
EECExxxx EE Fundamentals 4/5
Graduate Course 1 4

MD

EECE4792 Capstone Design 2 4 Elective
EECExxxx CE Fundamentals 4/5
EECExxxx EE Fundamentals 4/5
Graduate Course 1 4

* 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

Requirements:

- 1 Required General Electives (A maximum of 2 Graduate Courses can be used to fulfill this requirement)
- 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:

- EECE2520 - Fundamentals Digital Design & Lab
- EECE2540 - Fundamentals Networks
- EECE2560 - Fundamentals Algorithms

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.

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.neortheastern.edu/article/plusone-program-accelerated-bachelors-degree-programs/

MASTER OF SCIENCE IN ELECTRICAL AND COMPUTER ENGINEERING
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PlusOne Year FAL SPR SUM SPR

FALL SPR SUM SPR

Graduate Course 3 Graduate Course 6 Graduate Course 7 Graduate Course 8