## 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**
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**Year 1** | | | |
- **FALL**<br>  - MATH1341: Calculus for Engrs. 4<br>  - CHEM1151: General Chem for Engrs. 4<br>  - PHYS1151: Physics 1 for Engrs. 3<br>  - PHYS1152: Physics 1 Lab 1<br>  - PHYS1153: ILS for PHYS1151 1<br>  - PHYS1154: Intro to Eng'g. 1<br>  - GE1501: Cornerstone of Engineering (to be taken online) 4<br>  - ENGW1112: College Writing 4<br>  - MATH2341: Diff. Eq./Lin.Alg. 4<br>  - PHYS1155: Physics 2 for Engrs. 3<br>  - PHYS1156: Physics 2 Lab 1<br>  - PHYS1157: ILS for PHYS1155 1<br>  - ENGW3160: Embedded Design: Enabling Robotic 4<br>  - General Elective 4 | |  | |
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**Year 2** | | | |
- **FALL**<br>  - MATH3432: Calculus 2 for Engrs. 4<br>  - ENGW3153: College Writing 4<br>  - MATH2341: Diff. Eq./Lin.Alg. 4<br>  - PHYS1155: Physics 2 for Engrs. 3<br>  - PHYS1156: Physics 2 Lab 1<br>  - PHYS1157: ILS for PHYS1155 1<br>  - ENGW3160: Embedded Design: Enabling Robotic 4<br>  - ELECT2150: Intro to Eng'g. Coop 1<br>  - ELECT2160: Embedded Design: Enabling Robotic 4<br>  - Elective 4 | | | |
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- **SPRING**<br>  - MATH1342: Calculus 2 for Engrs. 4<br>  - PHYS1151: Physics 1 for Engrs. 3<br>  - PHYS1152: Physics 1 Lab 1<br>  - PHYS1153: ILS for PHYS1151 1<br>  - PHYS1154: Intro to Eng'g. 1<br>  - PHYS1155: Physics 2 for Engrs. 3<br>  - PHYS1156: Physics 2 Lab 1<br>  - PHYS1157: ILS for PHYS1155 1<br>  - PHYS1158: Intro to Eng'g. Coop 1<br>  - PHYS1159: Embedded Design: Enabling Robotic 4<br>  - Elective 4 | | | |
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**SUMMER 1** | | | |
- **FALL**<br>  - PHYS1150: Recitation for CS1800 4<br>  - PHYS1151: Physics 1 for Engrs. 3<br>  - PHYS1152: Physics 1 Lab 1<br>  - PHYS1153: ILS for PHYS1151 1<br>  - PHYS1154: Intro to Eng'g. 1<br>  - PHYS1155: Physics 2 for Engrs. 3<br>  - PHYS1156: Physics 2 Lab 1<br>  - PHYS1157: ILS for PHYS1155 1<br>  - PHYS1158: Intro to Eng'g. Coop 1<br>  - PHYS1159: Embedded Design: Enabling Robotic 4<br>  - Elective 4 | | | |
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**SUMMER 2** | | | |
- **FALL**<br>  - MATH3432: Calculus 2 for Engrs. 4<br>  - ENGW3153: College Writing 4<br>  - MATH2341: Diff. Eq./Lin.Alg. 4<br>  - PHYS1155: Physics 2 for Engrs. 3<br>  - PHYS1156: Physics 2 Lab 1<br>  - PHYS1157: ILS for PHYS1155 1<br>  - ENGW3160: Embedded Design: Enabling Robotic 4<br>  - Elective 4<br>  - MATH1342: Calculus 2 for Engrs. 4<br>  - PHYS1151: Physics 1 for Engrs. 3<br>  - PHYS1152: Physics 1 Lab 1<br>  - PHYS1153: ILS for PHYS1151 1<br>  - PHYS1154: Intro to Eng'g. 1<br>  - PHYS1155: Physics 2 for Engrs. 3<br>  - PHYS1156: Physics 2 Lab 1<br>  - PHYS1157: ILS for PHYS1155 1<br>  - PHYS1158: Intro to Eng'g. Coop 1<br>  - PHYS1159: Embedded Design: Enabling Robotic 4<br>  - Elective 4 | | | |
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- **SPRING**<br>  - MATH1342: Calculus 2 for Engrs. 4<br>  - ENGW3153: College Writing 4<br>  - MATH2341: Diff. Eq./Lin.Alg. 4<br>  - PHYS1155: Physics 2 for Engrs. 3<br>  - PHYS1156: Physics 2 Lab 1<br>  - PHYS1157: ILS for PHYS1155 1<br>  - ENGW3160: Embedded Design: Enabling Robotic 4<br>  - Elective 4 | | | |
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- **SUMMER 1**<br>  - MATH3432: Calculus 2 for Engrs. 4<br>  - ENGW3153: College Writing 4<br>  - MATH2341: Diff. Eq./Lin.Alg. 4<br>  - PHYS1155: Physics 2 for Engrs. 3<br>  - PHYS1156: Physics 2 Lab 1<br>  - PHYS1157: ILS for PHYS1155 1<br>  - ENGW3160: Embedded Design: Enabling Robotic 4<br>  - Elective 4 | | | |
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- **SUMMER 2**<br>  - MATH3432: Calculus 2 for Engrs. 4<br>  - ENGW3153: College Writing 4<br>  - MATH2341: Diff. Eq./Lin.Alg. 4<br>  - PHYS1155: Physics 2 for Engrs. 3<br>  - PHYS1156: Physics 2 Lab 1<br>  - PHYS1157: ILS for PHYS1155 1<br>  - ENGW3160: Embedded Design: Enabling Robotic 4<br>  - Elective 4 | | | |

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### Notes:

- 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 required to take IC, SI and DD.
- 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
- EECE2524/2525 - Fundamentals Networks
- EECE2540 - Fundamentals Algorithms
- EECE2560 - Fundamentals Linear Systems

### 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.

### More Information:

[https://registrar.northeastern.edu/article/plusone-program-accelerated-bachelorgraduate-degree-programs/](https://registrar.northeastern.edu/article/plusone-program-accelerated-bachelorgraduate-degree-programs/)