# Bachelor of Science in Electrical Engineering

## Curriculum Outline - Class of 2021, 2022

Sample Only – Actual Curriculum Sequence May Deviate from Sample

### FALL

<table>
<thead>
<tr>
<th>Year 1</th>
<th>Year 2</th>
<th>Year 3</th>
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</thead>
<tbody>
<tr>
<td>MATH1341 Calculus 1 for Engrs.</td>
<td>MATH1341 DIFF. Eq./LInf. Alg.</td>
<td>MATH2331 Calculus 3 for Engrs.</td>
</tr>
<tr>
<td>CHEM1151 General Chem for Engrs.</td>
<td>PHYS1151 Physics 2 for Engrs.</td>
<td>EECExxxx EE Fundamentals</td>
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<tr>
<td>CHEM1153 Reaction for CHEM1151</td>
<td>PHYS1156 Physics 2 Lab</td>
<td>EECExxxx EE Fundamentals</td>
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<tr>
<td>GE1300 Intro to Eng g.</td>
<td>PHYS1157 ILS for PHYS1151</td>
<td>EECExxxx EE Fundamentals</td>
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<tr>
<td>GE1501 Cornerstone of Engineering 1</td>
<td>EEC2150 Circuits/Signals: Biomed Apps.</td>
<td>EEC2150 Intro to Eng g. Coop</td>
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<tr>
<td>ENGWK1111 College Writing</td>
<td>Elective General Elective</td>
<td>Elective General Elective</td>
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### SPRING

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<thead>
<tr>
<th>Year 1</th>
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<tbody>
<tr>
<td>MATH1342 Calculus 2 for Engrs.</td>
<td>MATH1332 Calculus 3 for Engrs.</td>
<td>EEC2150 Intro to Eng g. Coop</td>
</tr>
<tr>
<td>PHYS1152 Physics 1 for Engrs.</td>
<td>EEC2000 Intro to Eng g. Coop</td>
<td>EECExxxx EE Fundamentals</td>
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<tr>
<td>PHYS1153 ILS for PHYS1151</td>
<td>EEC2160 Embedded Design: Enabling Robotic</td>
<td>EECExxxx EE Fundamentals</td>
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<tr>
<td>GE1502 Cornerstone of Engineering 2</td>
<td>EECExxxx EE Fundamentals</td>
<td>EECExxxx EE Fundamentals</td>
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### SUMMER 1

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<tr>
<th>Year 1</th>
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<tr>
<td>Vacation</td>
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<td>Co-op</td>
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### SUMMER 2

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<tr>
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<td>Co-op</td>
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### FALL

<table>
<thead>
<tr>
<th>Year 4</th>
<th>Year 5</th>
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<tbody>
<tr>
<td>ECE1300 Prof. Issues in Engr g.</td>
<td>ECE4792 Capstone Design 2</td>
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<tr>
<td>EECExxxx EE Fundamentals</td>
<td>Elective EEC Tech Elective 3</td>
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<tr>
<td>EECExxxx EE Fundamentals</td>
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<td>Elective EEC Tech Elective 4</td>
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<td>Elective EEC Tech Elective 4</td>
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### SUMMER 1

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### SUMMER 2

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### Notes

- MATH2341 is an acceptable substitution for engineering majors.
- **Effective Summer 1, 2017: ECE2150 & ECE2151 = ECE2150 and ECE2160 & 2161 = ECE2160. The labs are no longer offered as separate course numbers.
- 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, should use General Electives to do so. General Electives are academic, non-remedial, non-repetitive courses.

### Required Courses

3 Required General Electives: ECE2412/2413 - Fundamentals Electronics 1 & lab
AND ECE2520 - Fundamentals Linear Systems
AND ECE 2530/2531 - Fundamentals Electromagnetics & lab.

1 Required CE Fundamental: ECE2232/2233 - Fundamentals Digital Design & Lab OR ECE2540 - Fundamentals Networks OR ECE2560 - Fundamentals Algorithms

(CE Fundamentals not taken to meet the above requirement may also be taken as a technical elective.)

### Technical Elective Requirements: 4 EECE technical electives.

EECE2322, (EECE2540-EECE2750), ECE3154 (EECE3324-EECE3410), (EECE4512-EECE4698), EECE4993, (EECE5576-EECE5698), GE4608, ENGR5670

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

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

Last Name M-Z: Emily Ferraro - e.ferraro@northeastern.edu

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