**ENGW3315** is an acceptable substitution for engineering majors.

* Students who received a grade less than B* in **ENGW3312** must take **IE6200** instead of a graduate elective.

3 Students may replace 8 SH of graduate coursework in the senior year with a thesis, or 4 SH with a project.

NU Core Elective Requirements: 2 required (one Arts or Humanities Lvl. 1 Elective and one Social Science Lvl. 1 Elective)

General Elective: 1 required - any 4 SH course that is not remedial or repetitive.

Engineering Technical Electives: 2 required - any course from the following disciplines that is not a required course in the IE curriculum: IE, ME, MEIE, EMGT, OR, EECE, CIVE, CHME or CYSE.

Electives may be interchanged. Please consult with your advisor: Joy Erb - 220 Snell, 617-373-2154, j.erb@neu.edu

**Notes:**

Students will be required to meet with an undergraduate advisor to petition to enter the 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 3.2 to join the BS/MS program.

*Students can submit “Petition for a Reduced Course Load” to be billed per credit.

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

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### CURRICULUM OUTLINE - CLASS OF 2020

**FALL**

<table>
<thead>
<tr>
<th>Freshman Year 1</th>
<th>SPRING</th>
<th>SUMMER 1</th>
<th>SUMMER 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>CHEM1151</strong> General Chem. for Engrs.</td>
<td><strong>MATH1142</strong> Calculus 2 for Engrs.</td>
<td><strong>ENGW3302</strong> College Writing</td>
<td>Vacation</td>
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<tr>
<td><strong>CHEM1153</strong> Recitation for CHEM1151</td>
<td><strong>ENGW1111</strong> Physics 1 Engrs.</td>
<td><strong>ENGW1111</strong> Eng’g. Prob. Solv. &amp; Comp.</td>
<td>Vacation</td>
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<tr>
<td><strong>GE1000</strong> Intro to Eng’g.</td>
<td><strong>PHYS1151</strong> Physics 1 Lab</td>
<td><strong>PHYS1151</strong> Eng'g. Design</td>
<td>Vacation</td>
</tr>
<tr>
<td><strong>GE1010</strong> Eng’g. Design</td>
<td><strong>IE2310</strong> Recitation for IE2310</td>
<td><strong>IE2310</strong> Eng’g Database</td>
<td>Co-op</td>
</tr>
<tr>
<td><strong>MATH1141</strong> Calculus 1 for Engrs.</td>
<td><strong>IE3412</strong> Eng’g Prob. Stat.</td>
<td><strong>IE3412</strong> Recitation for IE3425</td>
<td>Co-op</td>
</tr>
<tr>
<td><strong>NU Core</strong> Arts or Humanities Lvl. 1</td>
<td><strong>IE3425</strong> Eng’g Database</td>
<td><strong>IE3425</strong> Diff Eq./Lin. Alg.</td>
<td>Vacation</td>
</tr>
<tr>
<td><strong>IE3426</strong> Recitation for IE3425</td>
<td><strong>MEIE3000</strong> Intro to Eng’g, Co-op</td>
<td><strong>MEIE3000</strong> Lab for IE4530</td>
<td>Co-op</td>
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<tr>
<td><strong>MEIE2000</strong> Calculus 3 for Engrs.</td>
<td><strong>NU Core</strong> Social Science Lvl. 1</td>
<td><strong>NU Core</strong></td>
<td><strong>ENGW3302</strong> Adv. Writing for Prof. Elective</td>
</tr>
<tr>
<td><strong>NU Core</strong> <strong>Scientific Elective</strong></td>
<td><strong>MEIE6850</strong> Stochastic Modeling</td>
<td><strong>MEIE4701</strong> Capstone Design 1</td>
<td><strong>ENGW3302</strong> Adv. Writing for Prof. Elective</td>
</tr>
<tr>
<td><strong>IE2310</strong> Intro Ind. Eng’g</td>
<td><strong>IE4520</strong> Logics &amp; Supply Chain</td>
<td><strong>IE4520</strong> Graduation Course</td>
<td><strong>ENGW3302</strong> Adv. Writing for Prof. Elective</td>
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<tr>
<td><strong>IE3421</strong> Recitation for IE2310</td>
<td><strong>IE4525</strong> Prof. Issues in Eng’g</td>
<td><strong>IE4525</strong> General Elective</td>
<td><strong>ENGW3302</strong> Adv. Writing for Prof. Elective</td>
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<tr>
<td><strong>IE3425</strong> Eng’g Database</td>
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<td><strong>IE4525</strong></td>
<td><strong>ENGW3302</strong> Adv. Writing for Prof. Elective</td>
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### Science Elective

Complete one of the following:

- **PHYS1155** Physics for Engineering 1
- **PHYS1156** Lab for PHYS 1155
- **PHYS1157** Interactive Learning Seminar for PHYS 1155
- **CHEM1214** General Chemistry 2
- **CHEM1215** Lab for CHEM 1214
- **CHEM2311** Organic Chemistry 1
- **CHEM2312** Lab for CHEM 2311
- **MEIE3000** Recitation for CHEM 2311

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### NU Core

- **Biol 1115** General Biology 1 for Engineers
- **CHEM1151** General Chemistry 1
- **CHEM1153** Recitation for CHEM1151
- **ENGW1111** College Writing
- **ENGW3302** College Writing
- **IE2310** Intro to Eng’g.
- **IE3412** Eng’g Prob. Stat.
- **IE3425** Eng’g Database
- **IE3426** Recitation for IE3425
- **MEIE3000** Intro to Eng’g, Co-op
- **MEIE4701** Lab for IE4530
- **MEIE4702** Lab for IE4532
- **MEIE6850** Stochastic Modeling
- **MEIE6850** Logistics & Supply Chain
- **MEIE6850** Research Seminar

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### Arts or Humanities Electives

- **Eng’g. Economy**
- **Eng’g. Design**
- **Human Machine Systems**
- **Lab for IE4530**
- **Logistics & Supply Chain**
- **Simulation Mod. & Analysis**
- **Stochastic Modeling**
- **Technical Elective 1**