**MECHANICAL AND INDUSTRIAL ENGINEERING DEPARTMENT**

**BS-MS PROGRAM IN MECHANICAL ENGINEERING - CLASS OF 2022, 2023**

*Sample Only – Actual Curriculum Sequence May Deviate from Sample*

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<tr>
<th>FALL</th>
<th>SPRING</th>
<th>SUMMER 1</th>
<th>SUMMER 2</th>
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<td>Vacation</td>
<td>Vacation</td>
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**Freshman Year 1**

- **Math1341** Calculus 1 for Engrs. 4
- **Chem1152** General Chem. for Engrs. 3
- **Chem1153** Recitation for Chem1151 0
- **GE1000** Intro to Eng’g. 1
- **GE 1501** Cornerstone Eng. 1 4
- **Engw1113** College Writing 4

**GE1000** Intro to Eng’g. Co-op 1

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<tr>
<th>Year 2 (AA)</th>
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<th>Vacation</th>
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<tr>
<td>Math1341</td>
<td>Calculus 3 for Engrs. 4, Diff. Eq./Lin. Alg. 4</td>
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<tr>
<td>Physics 1155</td>
<td>Physics 2 for Engrs. 4</td>
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<tr>
<td>Physics 1156</td>
<td>Physics 2 Lab 1</td>
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<tr>
<td>ILS for Phys1155</td>
<td>ILS for Phys1155 1</td>
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<tr>
<td>ME2350 Eng’g Mech &amp; Design</td>
<td>Eng’g Mech &amp; Design 4</td>
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<td>Elective General Elective</td>
<td>Elective General Elective 4</td>
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**Year 2 (BB)**

- **Math1341** Calculus 3 for Engrs. 4
- **Physics 1155** Physics 2 for Engrs. 3
- **Physics 1156** Physics 2 Lab 1
- **ILS for PHYS1155** ILS Mech. of Materials 4
- **ME2350** Eng’g Mech & Design 4
- **MEIE2000** Intro to Eng’g, Co-op 1

**Year 3 (AA)**

- **Math2211** Calculus 3 for Engrs. 4
- **Physics 1155** Physics 2 for Engrs. 3
- **Physics 1156** Physics 2 Lab 1
- **ILS for PHYS1155** ILS Mech. of Materials 4
- **ME2350** Eng’g Mech & Design 4
- **MEIE2000** Intro to Eng’g, Co-op 1

**Year 3 (BB)**

- **Eece2210** Lab for Eece2210 4
- **ME4570** Dynamics & Vib. 4
- **ME4571** Lab for ME4570 1
- **ME4555** ME Computation 4
- **ME4550** Sys. Anal. & Control 4

**Year 4 (Yc)**

- **ME4550** Meas. Anal. Thermal 4
- **ME4553** Lab for ME4550 1
- **ME4556** Me Elective 4
- **ME4557** Prof. Issues in Eng’g, Capstone Course 1 4
- **Eece2210** Elect. Engineering Lab for Eece2210 4

**Year 4 (ZC)**

- **ME4550** ME Design Capstone 1 4
- **ME4553** Lab for ME4550 1
- **ME4556** Me Elective 4
- **ME4557** Prof. Issues in Eng’g, Capstone Course 1 4

**Year 5 (Yc)**

- **ME4550** Meas. Anal. Thermal 4
- **ME4553** Lab for ME4550 1
- **ME4556** Me Elective 4
- **ME4557** Prof. Issues in Eng’g, Capstone Course 1 4

**Year 5 (ZC)**

- **ME4556** Me Elective 4


*ENGW3315* is an acceptable substitution for engineering majors.

**Science/Math Elective** - Please consult with your academic advisor for the complete list of acceptable courses.

Népeth 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.

**MIE Technical Elective** - 1 required - Any ME, IE or EMGT class that is not part of the Mechanical Engineering core curriculum.

Electives may be interchanged. Please consult with your academic advisor:

- Last Names A-G: Roy Dalsheim r.dalsheim@northeastern.edu
- Last Names H-N: Katherine Bradley k Bradley@northeastern.edu
- Last Names O-Z: Laura Kenney l.kenney@northeastern.edu

Students will be required to meet with an undergraduate advisor and a graduate advisor to petition to enter the program.

**ME Graduate Electives** - 8 required - Full program must be approved by a graduate advisor.

Students are encouraged to meet with their financial aid counselor and a customer service representative to review any financial questions.

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