# Bachelor of Science in Mechanical Engineering - Honors College

**Catalogue**

**Student:** | **Date:** | **Advisor:**
|---|---|---|

## Year 1

<table>
<thead>
<tr>
<th>Semester 1</th>
<th>Cr</th>
<th>Status</th>
<th>Semester 2</th>
<th>Cr</th>
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<tbody>
<tr>
<td>ENGR 002 - Graphical Communication</td>
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<td>PHYS 031 - Physics for Engineers I</td>
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<tr>
<td>CHEM 031 - General Chemistry I</td>
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<td>PHYS 030 - Problem Solving Session I [Optional]</td>
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<td>FWIL (HCOL 085 - Seminar)</td>
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<td>QR: MATH 022 - Calculus II</td>
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<td>QR: MATH 021 - Calculus I</td>
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<td>ME 001 - First Year Design Experience</td>
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<td>QR: CS 021 - Computer Programming I</td>
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<td>ME 003 - Intro. to Robotics [Optional]</td>
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<td>CEMS 050 - CEMS First Year Seminar [Optional]</td>
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<td>HCOL 086 (D1/2)</td>
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<td>CE 001 - Statics</td>
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<td>ME 012 - Dynamics</td>
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<td>ME 040 - Thermodynamics</td>
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<td>SU: ME 042 - Applied Thermodynamics</td>
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<td>QR: MATH 121 - Calculus III</td>
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<td>QR: MATH 271 - Appl Math for Engr &amp; Sci</td>
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<td>PHYS 125 - Physics for Engineers II</td>
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<td>ME 014 - Mechanics of Solids</td>
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<td>PHYS 123 - Problem Solving Session II [Optional]</td>
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<td>ME 111 - System Dynamics</td>
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<td>ME 144 - Heat Transfer</td>
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<td>ME 143 - Fluid Mechanics</td>
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<td>ME 171 - Design of Elements</td>
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<td>ME 101 - Materials Engineering</td>
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<td>QR: STAT 143 - Statistics for Engineers</td>
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<td>EE 101 - Digital Control w/ Embedded Systems</td>
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<td>ME 123 - Thermo-Fluid Lab OR</td>
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<td>QR: MATH 122 or 124 - (Applied) Linear Algebra</td>
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<tr>
<td>ME 185 - Capstone Design I</td>
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<td>ME 186 - Senior Design Project II</td>
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**Minimum Total Credits Required for Degree: 125**

1. University Requirements & General Education Electives: University Requirements include Diversity (D1/D2), Sustainability (SU), Quantitative Reasoning (QR) and Foundational Writing & Information Literacy (FWIL). At least 3 credits General Education Electives must be from the Humanities and at least 3 credits must be from the Social Sciences. Refer to the CEMS Program Electives for approved Humanities and Social Science elective courses (https://www.uvm.edu/cems/cems-program-electives).

2. ME Electives: ME 161 and all 200-level (or above) ME courses except ME 297, 298, and 299

3. Technical Electives: All 100-level (or higher) courses in BME, CE, EE, ENGR, ME, CS, CSYS, MATH, ASTR, BIOC, BIOL, CHEM, GEOL, MMG & PHYS; STAT 151 or higher; CS 020.

This document is an advising tool and should be used in combination with a student’s degree audit, as well as the published Catalogue for 2021-2022 found at http://catalogue.uvm.edu/