## General Education

<table>
<thead>
<tr>
<th>Area</th>
<th>Minimum Credit Hours</th>
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<tbody>
<tr>
<td>Arts &amp; Humanities (9 credits)</td>
<td>40</td>
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</tbody>
</table>

### SKILL AREAS:

| I Communication Skills (6 credits) |  |
| ENG 110 - Introdcnt to College Writing | 3 |
| ENGR 290-Engineering Technical Writing & Presentation | 3 |

| II Mathematics * (8 credits) |  |
| MATH 152-Calculus I | 4 |
| MATH 221- Calculus II | 4 |

| III a. Foreign Language (0-6 credits)** |  |
|  |  |

| III b. International (6 credits)*** |  |
|  |  |

### IV University Requirements (2-3 credits)**** |  |
| PE 144-Fitness/Wellness | 2 or 3 |

### Major Requirements

<table>
<thead>
<tr>
<th>Course #</th>
<th>Course Name</th>
<th>Crd</th>
<th>F</th>
<th>S</th>
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</thead>
<tbody>
<tr>
<td>ENGR 150</td>
<td>Introduction to Engineering</td>
<td>3</td>
<td>X</td>
<td></td>
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<tr>
<td>ENGR 251</td>
<td>Engineering Mechanics I - Statics</td>
<td>3</td>
<td>X</td>
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<tr>
<td>ENGR 252</td>
<td>Engineering Mechanics II - Dynamics</td>
<td>3</td>
<td>X</td>
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<tr>
<td>ENGR 357</td>
<td>Mechanics of Materials</td>
<td>3</td>
<td>X</td>
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<tr>
<td>ME 258</td>
<td>Engineering Thermodynamics</td>
<td>3</td>
<td>X</td>
<td></td>
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<tr>
<td>ME 345</td>
<td>Engineering Statistical Analysis of Operations</td>
<td>3</td>
<td>X</td>
<td></td>
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<tr>
<td>ME 352</td>
<td>Modeling of Dynamic Systems</td>
<td>3</td>
<td>X</td>
<td></td>
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<tr>
<td>ME 354</td>
<td>Fluid Mechanics</td>
<td>3</td>
<td>X</td>
<td></td>
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<tr>
<td>ME 370</td>
<td>Instrumentation</td>
<td>3</td>
<td>X</td>
<td></td>
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<tr>
<td>ME 454</td>
<td>Heat Transfer</td>
<td>3</td>
<td>X</td>
<td></td>
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<tr>
<td>ME 497</td>
<td>Senior Project I: Project Research</td>
<td>1</td>
<td>X</td>
<td></td>
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<tr>
<td>ME 498</td>
<td>Senior Project II: Project Design</td>
<td>3</td>
<td>X</td>
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### Concentration Areas

**General Concentration**

| ME Elective 1 | 3 | X |
| ME Elective 2 | 3 | X |
| ME Elective 3 | 3 | X |
| Technical Elective | 3 | X |

**Aerospace Concentration**

| ME 403 | Control of Dynamic Systems | 3 | X |
| ME 480 | Propulsion Systems | 3 | X |
| ME 483 | Aerodynamics | 3 | X |
| ME 486 | Aerospace Structures and Materials | 3 | X |

**Manufacturing Concentration**

| ME 340 | Geometric Dimensioning & Tolerancing for Mechanical Design | 3 | X |
| ME 360 | Manuf. Operations Analysis and Simulation | 3 | X |
| ME 460 | Manufacturing System Design | 3 | X |
| Manufacturing Engineering Elective | 3 | X |

### Additional Requirements

| CET 236 | Circuit Analysis | 3 | X |
| CHEM161/62 | General Chemistry I | 4 | X |
| ENGR 240 | Computational Methods for Engineering | 3 | X |
| ETM 260 | Comp. Aided Design & Integrated Manuf. | 3 | X |
| ETM 356 | Materials Analysis | 3 | X |
| ETM 467 | Applied Finite Element Analysis | 3 | X |
| MATH 222 | Calculus III | 4 | X |
| MATH 226 | Linear Algebra and Probability for Engineers | 4 | X |
| MATH 355 | Introduction to Differential Equations | 4 | X |
| ENGR 392 | 400 hrs Field Practicum | 1 | X |

### Total Number of Credits

127