## MINOR IN MECHANICAL ENGINEERING

### Curriculum Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Core Courses</strong></td>
<td></td>
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<tr>
<td>CAE 210</td>
<td>Mechanics of Solids I</td>
<td>3</td>
</tr>
<tr>
<td>MAE 111</td>
<td>Introduction to Engineering I</td>
<td>3</td>
</tr>
<tr>
<td><strong>Elective Courses</strong></td>
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<tr>
<td>Select 9 credit hours from one of the following areas of specialization:</td>
<td>9</td>
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</tbody>
</table>

#### Energy Engineering:
- MAE 303 Thermodynamics I
- MAE 420 Applied Thermodynamics
- MAE 503 Internal Combustion Engines
- MAE 506 Nuclear Engineering
- MAE 510 Fundamentals of Solar Energy Utilization

#### Environmental Engineering:
- MAE 303 Thermodynamics I
- MAE 309 Fluid Mechanics
- MAE 408 Heating, Ventilating, and Air Conditioning
- MAE 510 Fundamentals of Solar Energy Utilization
- MAE 521 Exhaust Emission Control

#### Materials Engineering:
- MAE 207 Mechanics of Solids II
- MAE 301 Engineering Materials Science
- MAE 302 Mechanical Behavior of Materials
- MAE 507 Advanced Mechanics of Solids

#### Thermal Engineering:
- MAE 303 Thermodynamics I
- MAE 310 Heat Transfer
- MAE 408 Heating, Ventilating, and Air Conditioning
- MAE 420 Applied Thermodynamics
- MAE 441 Design of Fluid and Thermal Systems
- MAE 503 Internal Combustion Engines
- MAE 508 Intermediate Heat Transfer
- MAE 510 Fundamentals of Solar Energy Utilization

**Total Credit Hours**

15

*At least 9 credit hours of Mechanical Engineering courses must be taken at the University of Miami; subject to approval of an academic advisor.*

**A minimum 2.0 grade point average in all MAE courses taken is required.*