## MINOR IN MECHANICAL ENGINEERING

### Curriculum Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
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<tbody>
<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>
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### Core Courses

**Elective Courses**

Select 9 credit hours from one of the following areas of specialization:

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<tr>
<td>MAE 303</td>
<td>Thermodynamics</td>
<td></td>
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<tr>
<td>MAE 420</td>
<td>Applied Thermodynamics</td>
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<tr>
<td>MAE 503</td>
<td>Internal Combustion Engines</td>
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<tr>
<td>MAE 506</td>
<td>Nuclear Engineering</td>
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<tr>
<td>MAE 510</td>
<td>Fundamentals of Solar Energy Utilization</td>
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**Energy Engineering:**

- MAE 303: Thermodynamics
- 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
- 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
- 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.