## MINOR IN MECHANICAL ENGINEERING

### Curriculum Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<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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**Elective Courses**

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

**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.