## 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>
</tr>
</tbody>
</table>

**Core Courses**

**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.