Degree
Bachelor of Science in Mechanical Engineering
Course Catalog

Admission Requirements

- **Academic Progression Standards**
  - Completion of Associate in Arts (AA) degree
  - Completion of all prerequisites with grade of C or higher
  - Cumulative Transfer GPA: 2.0 or higher
  - Earn grade of C or higher in all prerequisites in **two attempts or fewer**
    - Drop/withdrawal grades are considered attempts
  - Be Calculus I ready: Completion of MAC 1140 and MAC 1114 or MAC 1147 with grade of C or higher in each course

Special Notes

- We strongly encourage students to complete math and science courses **every term** to make satisfactory progress toward completing all prerequisites and AA degree prior to transfer.
- The additional lower division courses below are required for this program. We encourage students to take these courses (as electives) prior to completing the AA.

### PREREQUISITES

<table>
<thead>
<tr>
<th>MDC Course</th>
<th>FIU Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 2311 Calculus and Analytical Geometry 1</td>
<td>MAC 2311</td>
</tr>
<tr>
<td>MAC 2312 Calculus and Analytical Geometry 2</td>
<td>MAC 2312</td>
</tr>
<tr>
<td>MAC 2313 Calculus and Analytical Geometry 3</td>
<td>MAC 2313</td>
</tr>
<tr>
<td>MAP 2302 Introduction to Differential Equations</td>
<td>MAP 2302</td>
</tr>
<tr>
<td>CHM 1045 + CHM 1045L General Chemistry &amp; Qualitative Analysis 1 + Lab</td>
<td>CHM 1045 + Lab</td>
</tr>
<tr>
<td>PHY 2048 + PHY 2048L Physics with Calculus 1 + Lab</td>
<td>PHY 2048 + Lab</td>
</tr>
<tr>
<td>PHY 2049 + PHY 2049L Physics with Calculus 2 + Lab</td>
<td>PHY 2049 + Lab</td>
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### ADDITIONAL LOWER DIVISION COURSES

<table>
<thead>
<tr>
<th>MDC Course</th>
<th>FIU Course</th>
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<tbody>
<tr>
<td>EGN 1008C Introduction to Engineering</td>
<td>EGS 1006</td>
</tr>
<tr>
<td>COP 2270 “C” for Engineers*</td>
<td>EML 2032</td>
</tr>
<tr>
<td>EGN 2312 Engineering Mechanics – Statics (with Vectors)*</td>
<td>EGN 3311</td>
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*Course transfers as noted for Mechanical Engineering majors.*