**Name:**

**Plan:**

**SubPlan/Option:**

**Min. Units Required:**

**127 units**

### Mechanical Engineering, B.S.

#### Major Required Core  
95 units

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>ME2010 - Dynamics of Machinery (3)</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>ME4251 - Advanced Machine Design and Analysis (2)</strong></td>
<td></td>
</tr>
<tr>
<td>ME4251L</td>
<td>Advanced Machine Design and Analysis Laboratory (1)</td>
<td></td>
</tr>
<tr>
<td>ME4300</td>
<td>Engineering Computational Methods (3)</td>
<td></td>
</tr>
<tr>
<td>ME4441</td>
<td>Air Pollution Formation and Control (3)</td>
<td></td>
</tr>
<tr>
<td>ME4901</td>
<td>Introduction to Micro-Electromechanical Systems (3)</td>
<td></td>
</tr>
<tr>
<td>ME4990</td>
<td>Special Topics for Upper Division Students (1-3)</td>
<td></td>
</tr>
<tr>
<td>ME4990A</td>
<td>Special Topics for Upper Division Students Activity (1-3)</td>
<td></td>
</tr>
<tr>
<td>ME4990L</td>
<td>Special Topics for Upper Division Students Laboratory (1-3)</td>
<td></td>
</tr>
</tbody>
</table>

### General Education Requirements  
48 Units

Students should consult the Academic Programs website  
https://www.cpp.edu/~academic-programs/general-education-course-listings.shtml  
for current information regarding this requirement. Unless specific courses are required, please refer to the list of approved courses under General Education Requirements, Areas A through E.

#### Area A. English Language Communication and Critical Thinking (9 units)

1. Oral Communication
2. Written Communication
3. Critical Thinking (Satisfied by completion of undergraduate Engineering degree)

#### Area B. Scientific Inquiry and Quantitative Reasoning (12 units)

1. Physical Sciences
2. Life Sciences
3. Laboratory Activity
4. Mathematics/Quantitative Reasoning
5. Science and Technology Synthesis

#### Area C. Arts and Humanities (12 units)

1. U.S. History and American Ideals
2. U.S. Constitution and California Government
4. Social Science Synthesis

#### Area D. Social Sciences (12 units)

1. U.S. History and American Ideals
2. U.S. Constitution and California Government
4. Social Science Synthesis

#### Interdisciplinary General Education  
21 Units

An alternate pattern for partial fulfillment of GE Areas A, C, and D available for students is the Interdisciplinary General Education (IGE) program. Students should see an advisor for specific GE coursework required by their major. Please refer to the University Catalog General Education Program section for complete information.

**How IGE fulfills General Education Requirements:**

<table>
<thead>
<tr>
<th>Year</th>
<th>Completion of IGE Courses</th>
<th>Satisfies GE Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>IGE 1100, IGE 1200</td>
<td>A2 and C2b</td>
</tr>
<tr>
<td>Sophomore</td>
<td>IGE 2100, IGE 2200</td>
<td>C1 and C2a</td>
</tr>
<tr>
<td>Junior</td>
<td>IGE 2300, IGE 2400</td>
<td>D1 and D3</td>
</tr>
<tr>
<td>Senior</td>
<td>IGE 3100</td>
<td>C3 or D4</td>
</tr>
</tbody>
</table>

### American Institutions  
6 Units

Courses that satisfy this requirement may also satisfy GE Area D1 and D2.

### American Cultural Perspectives Requirement  
3 Units

Refer to the University Catalog General Education Program section for a list of courses that satisfy this requirement. Course may also satisfy major, minor, GE, or unrestricted elective requirements.

### Graduation Writing Test

All persons who receive undergraduate degrees from Cal Poly Pomona must pass the Graduation Writing Test (GWT). The test must be taken by the semester following completion of 60 units for undergraduates.