B.S. Mechanical Engineering 2014-2015 Academic Year

Marion Campus

Student Information
Name: ___________________________ OSU ID: ___________________________ OSU Admit Term: __________
Phone: ___________________________ Email (name.number@osu.edu): ___________________________

Suggested Curriculum
This should be used as a guide only. Semester offerings are subject to change.

<table>
<thead>
<tr>
<th>Year</th>
<th>Autumn</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>____ MATH 1151 (Calculus I)........................</td>
<td>____ MATH 1172 (Engineering Math A)................</td>
</tr>
<tr>
<td></td>
<td>____ PHYSICS 1250 (Mechanics, Thermal, Waves)</td>
<td>____ PHYSICS 1251 (E&amp;M, Optics, Modern Phys)</td>
</tr>
<tr>
<td></td>
<td>____ ENGR 1181 (Fundamentals of Engr 1)........</td>
<td>____ ENGR 1182 (Fundamentals of Engr 2)..........</td>
</tr>
<tr>
<td></td>
<td>____ EXPLORATION 1100.01 (Survey)..............</td>
<td>____ General Education..............................</td>
</tr>
<tr>
<td></td>
<td>____ General Education............................</td>
<td>____ General Education..............................</td>
</tr>
<tr>
<td></td>
<td>TOTAL 16 hr</td>
<td>TOTAL 15 hr</td>
</tr>
</tbody>
</table>

Students who transition to Columbus Campus after taking these classes during their first year can reasonably project they will graduate with a B.S. in Mechanical Engineering in a total of 4 years.

Math Note: Students starting in MATH 1150 will need to take MATH 1172 during the summer between their first and second years in order to reasonably project they will graduate with a B.S. in Mechanical Engineering in a total of 4 years.

General Education Note: Students should plan to take ENGLISH 1110.01 during their first year.

<table>
<thead>
<tr>
<th>Year</th>
<th>Autumn</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>____ MATH 2173 (Engineering Math B)................</td>
<td>____ MECHENG 2020 (Mechanics of Materials).......</td>
</tr>
<tr>
<td></td>
<td>____ CHEM 1250 (Gen Chem for Engineers)........</td>
<td>____ MECHENG 2030 (Dynamics).......................</td>
</tr>
<tr>
<td></td>
<td>____ MECHENG 2010 (Statics)......................</td>
<td>____ ECE 2300 (Circuits)...........................</td>
</tr>
<tr>
<td></td>
<td>____ ISE 2040 (Engineering Economics)...........</td>
<td>____ General Education..............................</td>
</tr>
<tr>
<td></td>
<td>____ STAT 3470 (Intro to Prob/Stats for Engineers)</td>
<td>____ General Education..............................</td>
</tr>
<tr>
<td></td>
<td>____ General Education............................</td>
<td>____ General Education..............................</td>
</tr>
<tr>
<td></td>
<td>TOTAL 17 hr</td>
<td>TOTAL 15 hr</td>
</tr>
</tbody>
</table>

Students who transition to Columbus Campus after taking these classes during their second year and are admitted to the major (details below) can reasonably project they will graduate with a B.S. in Mechanical Engineering in a total of 4.5 years.

All students must satisfy the credit hour minimum (32 credit hours) for math and basic sciences. Students with high math or science placements and transfer students should consult with the MAE academic advisors to ensure this minimum is met. Such students may be required to take extra coursework to meet graduation requirements.

Acceptance Criteria
Formal application to the major is required. Pre-requisite courses to the major are English 1110 and the EPHR courses listed below. In order to be eligible to apply to the major students must have a minimum 2.8 EPHR; however, this minimum does not guarantee acceptance to the major. Acceptance into the Mechanical Engineering major is based on a numerical ceiling per year and is competitive based on a student’s EPHR. Email maeadvisor@osu.edu for more information.

EPHR = CHEM 1250; ENGR 1181, 1182; MATH 1151, 1172, 2173; MECHENG 2010; PHYSICS 1250, 1251; or their equivalents.

More information about apply to the major including applications can be found online at https://advising.engineering.osu.edu/current-students/applying-your-major.
Program Options
Technical and Other electives
- Minimum of 12 credit hours total.
- Please contact an MAE academic advisor or visit mae.osu.edu for technical elective program details and lists.

Capstone Courses 2 and 3 (choose one):
4901.01, 4901.02: General Projects
4902.01, 4902.02: Student Design Competitions
4903.01, 4903.03: Industry Projects
4904.01; 4904.02: Humanitarian Projects
4905.01; 4905.02: Assistive Devices

General Education Requirement

Writing and Communication
English 1110.xx 3 hr
Second Writing Course 3 hr

Social Science
Only one course per Social Science group may count.

      3 hr
Social Science

      3 hr

Literature

      3 hr

Visual and Performing Arts

      3 hr

Historical Study

      3 hr

Second Historical Study or Cultures and Ideas

      3 hr

Social Diversity in the U.S. or Global Diversity
Some courses may overlap with another GE category. See course list.

      0 / 3 hr

Ethics
Some courses may overlap with another GE category. See course list.

      0 / 3 hr

Foreign Language
Pre-approved substitutions
A. Credit (including EM) for a foreign language sequence through 1103, or credit for a foreign language course with a prerequisite of 1103, can be substituted for one Gen Ed course requirement as a Cultures & Ideas.
B. Completion of a foreign language minor can be substituted for two Gen Ed courses: one course as a Social Science, (Individuals & Groups or Organizations & Polities subgroups only) and one course as either a Literature or a Cultures & Ideas.

Parameters: Students must choose either Substitution A OR Substitution B. Both substitutions cannot be applied simultaneously.

University Capstone (Cross-Disciplinary Seminar)
Pre-approved substitutions
Completion of a Social Science 3597 or 4597 can be substituted for a Social Science general education course in any group. Completion of an Arts & Humanities 3597 or 4597 can be substituted for a Visual/Performing Arts general education course. See the list of approved general education courses for additional details: www.engineering.osu.edu/major.