**GENERAL EDUCATION REQUIREMENTS: 42 HOURS**

<table>
<thead>
<tr>
<th>Area</th>
<th>Hours</th>
<th>To be selected from:</th>
</tr>
</thead>
<tbody>
<tr>
<td>English Composition</td>
<td>6</td>
<td>ENGL 1113 or 1313, 1213 or 1413 (3323 may be substituted for 1213) (See Academic Regulation 3.5 in Catalog)</td>
</tr>
<tr>
<td>American History &amp; Government</td>
<td>6</td>
<td>HIST 1103 (or 1483 or 1493), POLS 1113</td>
</tr>
<tr>
<td>Analytical &amp; Quantitative Thought (A)</td>
<td>10</td>
<td>MATH 2144, 2153, 2163</td>
</tr>
<tr>
<td>Humanities (H)</td>
<td>6</td>
<td>Any courses designated (H)</td>
</tr>
<tr>
<td>Natural Sciences (N)</td>
<td>8</td>
<td>CHEM 1414 or 1515, PHYS 2014</td>
</tr>
<tr>
<td>Must include one Laboratory Science (L) course.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Social &amp; Behavioral Sciences (S)</td>
<td>6</td>
<td>Any course designated (S)</td>
</tr>
</tbody>
</table>

**DIVERSITY (D) & INTERNATIONAL DIMENSION (I)**

May be completed in any part of the degree plan.
At least one Diversity (D) course
At least one International Dimension (I) course

**COLLEGE/DEPARTMENTAL REQUIREMENTS: 30 HOURS**

<table>
<thead>
<tr>
<th></th>
<th>Hours</th>
<th>To be selected from:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Math and Basic Science</td>
<td>10</td>
<td>MATH 2233, PHYS 2114 and select from: ASTR 1013, 1023, BIOL 1114, CHEM 3053, GEOL 1114, 3413, PHYS 2213, 3313, 3713</td>
</tr>
<tr>
<td>Engineering</td>
<td>5</td>
<td>ENGR 1111, 1332, 1412</td>
</tr>
<tr>
<td>Engineering Science</td>
<td>15</td>
<td>ENSC 2113, 2123, 2143, 2213, 2613</td>
</tr>
</tbody>
</table>

**MAJOR REQUIREMENTS: 49 HOURS**

- Engineering Science: ENSC 3233, 3313
- Specific Professional School:
  - MAE 3013
  - MAE 3113
  - MAE 3223
  - MAE 3233
  - MAE 3323
  - MAE 3403
  - MAE 3723
  - IEM 3503

13 hours from the following 4 categories, selecting one course from each category so that all 4 categories are represented:

- Category I (Thermal Systems Realization)
  - MAE 4243, 4263, 4703, 4713
- Category II (Mechanical Systems Realization)
  - MAE 4353, 4363, 4513, 4623
- Category III (Laboratory)
  - MAE 4273, 4333, 4733
- Category IV (Capstone Design)
  - MAE 4344, 4354

6 hours to be selected from the following list, or from courses in the 4 categories listed above, but not used to satisfy the category requirement.

- MAE 3033, 3123, 3253, 3293, 4053, 4063, 4313,

**Admission to Professional School (required):**

Refer to the OSU Catalog corresponding to your matriculation date for detailed admissions requirements.

**Graduation Requirements:**

1. A minimum GPA of 2.50 is required in all MAE prefix Courses.
2. A minimum overall GPA of 2.50 is required in 4000-level MAE prefix courses.
3. A ‘C’ or better is required in each course that is a prerequisite for a major course taken.
4. The major engineering design experience, capstone course, is satisfied by MAE 4344 or MAE 4354.

**Additional State/OSU Requirements:** At least: 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 or 50% of the upper-division hours in the major field completed at OSU. Limit of: one-half of major course requirements as transfer work; one-fourth of hours earned by correspondence; 8 transfer correspondence hours.

Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made, so long as these changes do not result in semester credit hours being added or do not delay graduation. Degrees that follow this plan must be completed by the end of Summer 2023.

**Signature on file in the Office of the Registrar**

DEAN

DEPARTMENT HEAD

EN-15