### B.S. in Mechanical Engineering with an Aerospace Engineering Option

#### Curriculum of Mechanical Engineering with an Aerospace Engineering Option, 2023-2024

<table>
<thead>
<tr>
<th>Freshman: 1st Semester (16 credits)</th>
<th>Freshman: 2nd Semester (19 credits)</th>
<th>Sophomore: 1st Semester (15 credits)</th>
<th>Sophomore: 2nd Semester (16 credits)</th>
<th>Junior: 1st Semester (16 credits)</th>
<th>Junior: 2nd Semester (16 credits)</th>
<th>Senior: 1st Semester (16 credits)</th>
<th>Senior: 2nd Semester (15 credits)</th>
</tr>
</thead>
<tbody>
<tr>
<td>H/SS 1 (3)</td>
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<td>Aerospace Elective Space: H/SS 3</td>
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</tbody>
</table>

**Color code:**
- Design Courses
- Mechanical, Materials, Processes
- Electrical, Measurements, Controls
- Thermal/Fluid Sciences
- Engineering Orientation, Computations
- Humanities/Social Sciences, Writing
- Mathematics
- Basic Science

**F = fall semester, S = spring semester**

Pre = Pre-requisite
Co = Co-requisite
Pre/Co = Pre-requisite or Co-requisite
H/SS = Humanities / Social Sciences - all MAE students must take one humanities course and two social science courses from University General Education requirement:
PHIL 2135, and two additional humanities or social science or non-technical courses from SEAS/MAE Department’s pre-approved list of electives.

**Technical Elective:** Shall be selected from among the MA 3000, 4000, or 6000 level courses, except that the following are excluded: MAE 3171, 4172, 6298, 6999. All technical electives must be approved by the undergraduate advisor. Technical courses from other departments (3000, 4000, or 6000 level) may be permitted, on a case-by-case basis, if approved by both the undergraduate advisor and department chair.

**ASME or AIAA membership recommended**

**FE Exam recommended in the senior year**

**Aerospace Elective:**
Either Space: In the 5th semester take MAE 3145 and in the 8th semester take MAE 6249 -or- Aero: In the 7th semester take MAE 4163 and in the 8th semester take MAE 6247. (Switch AERO ELECT 5th semester with H/SS 7th semester.)