# B.S.M.E. Curriculum

Last Update: July 2022

All MMAE courses run in both the Fall and Spring semesters except for the following:

<table>
<thead>
<tr>
<th>Fall Only</th>
<th>Spring Only</th>
<th>Prerequisite</th>
<th>Corequisite</th>
</tr>
</thead>
<tbody>
<tr>
<td>MMAE 100, MMAE 302, MMAE 419</td>
<td>MMAE 319, MMAE 321, MMAE 323</td>
<td>MMAE 302, MMAE 485</td>
<td></td>
</tr>
<tr>
<td>MMAE 445, MMAE 485</td>
<td>MMAE 432, MMAE 433</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. Fall (15 credits)
   - MATH 151 (4-1-5)
   - HUM 2XX (3-0-3)
   - MMAE 100 (1-4-3)
   - CHEM 124 (3-3-4)

2. Spring (17 credits)
   - MATH 152 (4-1-5)
   - PHYS 123 (3-3-4)
   - H 3XX (3-0-3)
   - CS 104 (2-1-2)
   - MS 201 (3-0-3)

3. Fall (17 credits)
   - MATH 251 (4-0-4)
   - PHYS 221 (3-3-4)
   - MMAE 202 (3-0-3)
   - MMAE 232 (3-1-3)

4. Spring (16 credits)
   - MATH 252 (4-0-4)
   - MMAE 350 (3-0-3)
   - Free Elec. (3-0-3)
   - S XXX (3-0-3)

5. Fall (15 credits)
   - MMAE 305 (3-0-3)
   - MMAE 302 (3-0-3)
   - MMAE 313 (3-0-3)
   - MMAE 320 (3-0-3)

6. Spring (16 credits)
   - MMAE 319 (2-6-4)
   - MMAE 332 (3-0-3)
   - MMAE 321 (3-0-3)
   - MMAE 323 (3-0-3)

7. Fall (16 credits)
   - MMAE 419 (2-6-4)
   - MMAE 443 (3-0-3)
   - MMAE 485 (3-0-3)
   - Tech. Elec. (3-0-3)
   - H/S XXX (3-0-3)

8. Spring (15 credits)
   - Free Elec. (3-0-3)
   - Tech. Elec. (3-0-3)
   - MMAE 432 (1-3-3) or MMAE 433 (3-0-3)
   - Tech. Elec. (3-0-3)
   - IPRO - II (1-6-3)

**Total 127 credits**

- **MMAE 100 or sophomore standing are prerequisite for MMAE 232.**
- **MMAE 302 can be replaced by MMAE 304.**
- **MMAE 319 can be replaced by MMAE 315, provided student is taking or has taken MMAE 311.**
- **Note that “S” courses from at least two different fields are required.**
- **“H” designates humanities courses in the fields of HUM, HIST, LIT, PHIL, AAH.**
- **“S” designates social sciences courses in the fields of SSCI, SOC, PSYC, PS, ECON.**
- @ MMAE 445, 450, 451 are among the tech electives offered by the department in computational mechanics.

<table>
<thead>
<tr>
<th>STEM Module (35 ch)</th>
<th>MMAE Module (50 ch)</th>
<th>Human Sciences Module (21 ch)</th>
<th>Free Elec. (6 ch)</th>
<th>Tech. Elec. (9 ch) + IPRO (6 ch)</th>
</tr>
</thead>
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