B.S.M.E. Curriculum
Last Update: April 2022

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

### Fall Only
- MMAE 100, MMAE 302, MMAE 419
- MMAE 445, MMAE 485

### Spring Only
- MMAE 319, MMAE 321, MMAE 323
- MMAE 432, MMAE 433

**Prerequisite**

**Corequisite**

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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** (15 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 Elect. (3-0-3)
   - S XXX (3-0-3)
   - H 3XX (3-0-3)

5. **Fall** (17 credits)
   - MMAE 305 (3-0-3)
   - MMAE 302 (3-0-3)
   - MMAE 313 (3-0-3)
   - MMAE 320 (3-0-3)

6. **Spring** (15 credits)
   - MMAE 319 (2-6-4)
   - MMAE 332 (3-0-3)
   - MMAE 321 (3-0-3)
   - MMAE 323 (3-0-3)
   - IPRO - I (1-6-3)

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 Elect. (3-0-3)
   - Tech. Elec. (3-0-3)
   - Tech. Elec. (3-0-3)
   - IPRO - II (1-6-3)

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**Total** 127 credits

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* MMAE 100 or sophomore standing are prerequisite for MMAE 232.
+ 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.

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**STEM Module** (35 ch)
**MMAE Module** (50 ch)
**Human Sciences Module** (21 ch)
**Free Elect.** (6 ch)
**Tech. Elec.** (9 ch) + IPRO (6 ch)