 Spring


Name $\qquad$ UIN $\qquad$ $\square$ Western course $\square$ Non-Western course $\square$ U.S. Minority courseLOTE
FOffered in fall semester only.
${ }^{\text {s }}$ Offered in spring semester only.
${ }^{1}$ Rhet 105 is taken the first or second semester of the first year, according to student's UIN. Rhet 105 is taken in the fall by students with even UINs and in the spring by students with odd UINs. ME 170 is taken the other semester (in the fall by students with odd UINs and in the spring by students with even UINs).
${ }^{2}$ A total of six courses must be taken for grades to fulfill general education requirements. At least two of these must be must be Humanities and the Arts courses and at least two must be Social and Behavioral Science courses. Additionally, of these six courses, at least one must be a Western, at least one must be a Non-Western, and at least one must be a U.S. Minority cultures course. Students must also complete the Language Other Than English requirement (LOTE). 1st and 2nd level language courses can count as free electives and be taken CR/NC, but 3rd level of languages courses must be taken for a grade. See College of Engineering and University web sites for more information and course lists.
${ }^{3}$ ME 470 requires credit or concurrent registration in all required TAM core courses by number (e.g. TAM 470, TAM 412, etc.). Concurrent registration is limited to 2 courses; however, may limit projects you meet the prerequisites for. ME 470 is taken in the spring by students with odd UINs and in the fall by students with even UINs.
${ }^{4}$ Secondary Field Elective-12 hr of coherent course work in mechanics or closely related field. See departmental list online at the MechSE departmental website or propose an alternate set of courses for approval from the MechSE Undergraduate Programs Office.
${ }^{5}$ [Optional] Three hours of secondary field elective credit can be obtained if ME 199 DES or SAE (1 hr ) is taken for three consecutive semesters starting no later than the third semester for incoming first-year students or second semester for incoming transfer students. A final report must be submitted to the Undergraduate Programs office at completion per guidelines set by the course instructor. There is a 6 hour maximum for secondary field elective credit obtained from independent study and/or SAE type credits.

## CURRICULUM IN ENGINEERING MECHANICS

The curriculum requires 128 hours for graduation．

| Course Rubric | Course Name | Credit | TGPA ${ }^{6}$ | $2.25 \mathrm{GPA}^{7}$ |
| :---: | :---: | :---: | :---: | :---: |
| Orientation and Professional Development |  |  |  |  |
| ENG 100 | Engineering Orientation | 0 | $\square$ | $\square$ |
| ME 290 | Seminar |  | $\square$ | $\square$ |
| TAM 195 | Mechanics in the Modern World | 1 | $\square$ | ® |
| Foundational Mathematics and Science |  |  |  |  |
| CHEM 102 | General Chemistry I | 3 | $\square$ | ® |
| CHEM 103 | General Chemistry Lab I | 1 | $\square$ | 区 |
| CHEM 104 | General Chemistry II | 3 | $\square$ | 区 |
| CHEM 105 | General Chemistry Lab II | 1 | $\square$ | 区 |
| MATH 221 | Calculus I | 4 | $\square$ | 区 |
| MATH 231 | Calculus II | 3 | $\square$ | ® |
| MATH 241 | Calculus III | 4 | $\square$ | ® |
| MATH 257 | Linear Algebra w／Computational Applications | 3 | $\square$ | 区 |
| MATH 441 | Differential Equations | 3 | 区 | $\square$ |
| MATH 442 | Intro Partial Differential Equations | 3 | 区 | $\square$ |
| PHYS 211 | University Physics：Mechanics | 4 | 区 | 区 |
| PHYS 212 | University Physics：Elec \＆Mag | 4 | 区 | 区 |
| PHYS 213 | University Physics：Thermal Physics | 2 | 『 | 『 |
| PHYS 214 | University Physics：Quantum Physics | 2 | 区 | 区 |
| Engineering Mechanics Technical Core |  |  |  |  |
| CS 101 | Intro Computing：Engrg \＆Sci | 3 | $\square$ | 区 |
| ECE 205 | Elec \＆Electronic Circuits | 3 | 区 | 区 |
| ME 170 | Computer－Aided Design | 3 | $\square$ | ® |
| ME 200 | Thermodynamics | 3 | 区 | 区 |
| ME 470 | Senior Design Project | 3 | ® | $\square$ |
| TAM 211 | Statics | 3 | 区 | ® |
| TAM 212 | Introductory Dynamics | 3 | 区 | 区 |
| TAM 251 | Introductory Solid Mechanics | 3 | 区 | 区 |
| TAM 252 | Solid Mechanics Design | 1 | ® | 区 |
| TAM 270 | Design for Manufacturability | 3 | 区 | 区 |
| TAM 324 | Behavior of Materials | 4 | ® | $\square$ |
| TAM 335 | Introductory Fluid Mechanics | 4 | 区 | $\square$ |
| TAM 412 | Intermediate Dynamics | 4 | 区 | $\square$ |
| TAM 445 | Continuum Mechanics | 4 | ® | $\square$ |
| TAM 470 | Computational Mechanics | 3 | 区 | $\square$ |

## Electives and composition

| RHET $105^{1}$ | Principles of Composition | 4 | $\square$ | $\square$ |
| :--- | :--- | :---: | :---: | :---: |
| Secondary <br> field <br> electives | Chosen from departmentally approved list or <br> custom built with advisor approval，courses often <br> in the TGPA calculation（see MechSE TGPA list） | 12 | $\boxtimes$ | $\square$ |
| General education |  |  |  |  |

6．To remain in good academic standing and to graduate from the Engineering Mechanics（EM）curriculum，a student must have a technical grade－point average（TGPA）of at least 2．00．Courses that contribute to TGPA are the courses marked with an＂X＂in the TGPA column．
7．To register for third－year or 300 －level Engineering Mechanics（TAM）courses，students are required to have a grade－point average （GPA）of 2.25 or above in courses marked with an＂ X ＂taken from the 2.25 GPA column．

