

## 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 | $\square$ | 区 |
| 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 | 区 | $\square$ |
| MATH 441 | Differential Equations | 3 | 区 | $\square$ |
| MATH 442 | Intro Partial Differential Equations | 3 | 区 | $\square$ |
| PHYS 211 | University Physics：Mechanics | 4 | $\square$ | ® |
| PHYS 212 | University Physics：Elec \＆Mag | 4 | $\square$ | ® |
| PHYS 213 | University Physics：Thermal Physics | 2 | $\square$ | 『 |
| PHYS 214 | University Physics：Quantum Physics | 2 | $\square$ | ® |
| Engineering Mechanics Technical Core |  |  |  |  |
| CS 101 | Intro Computing：Engrg \＆Sci | 3 | $\square$ | 区 |
| ECE 205 | Elec \＆Electronic Circuits | 3 | $\square$ | ® |
| ME 170 | Computer－Aided Design | 3 | $\square$ | ® |
| ME 200 | Thermodynamics | 3 | 区 | 区 |
| ME 470 | Senior Design Project | 3 | 区 | $\square$ |
| TAM 211 | Statics | 3 | ® | ® |
| TAM 212 | Introductory Dynamics | 3 | ® | 区 |
| TAM 251 | Introductory Solid Mechanics | 3 | 区 | 区 |
| TAM 252 | Solid Mechanics Design | 1 | 区 | 区 |
| TAM 270 | Design for Manufacturability | 3 | 区 | $\square$ |
| 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 build upon advisor＇s approval | 12 | $\boxtimes$ | $\square$ |
| General education ${ }^{2}$ | 18 | $\square$ | $\square$ |  |
| Free electives | 6 | $\square$ | $\square$ |  |

6．To remain in good academic standing and to graduate from the EM curriculum，a student must have a GPA of at least 2.00 in the courses marked with an＂$X$＂
7．To register for third－year Engineering Mechanics（EM）courses，students are required to have a grade－point average of 2.25 or above in the courses marked with an＂ X ＂

