

## CURRICULUM IN MECHANICAL ENGINEERING

The curriculum requires 128 hours for graduation．

| Course Rubric | Course Name | Credit | TGPA ${ }^{9}$ | $2.25 \mathrm{GPA}^{10}$ |
| :---: | :---: | :---: | :---: | :---: |
| Orientation and Professional Development |  |  |  |  |
| ENG 100 | Engineering Orientation | 0 | $\square$ | $\square$ |
| ME 290 | Seminar | 0 | $\square$ | $\square$ |
| Foundational Mathematics and Science |  |  |  |  |
| CHEM 102 | General Chemistry I | 3 | $\square$ | 区 |
| CHEM 103 | General Chemistry Lab I | 1 | $\square$ | 区 |
| MATH 221 | Calculus I | 4 | $\square$ | 区 |
| MATH 231 | Calculus II | 3 | $\square$ | ® |
| MATH 241 | Calculus III | 4 | $\square$ | 区 |
| MATH 257 | Linear Algebra w／Computational Applications | 3 | $\square$ | ® |
| MATH 285 | Intro Differential Equations | 3 | $\square$ | 区 |
| PHYS 211 | University Physics：Mechanics | 4 | 区 | 区 |
| PHYS 212 | University Physics：Elec \＆Mag | 4 | 区 | 区 |
| Mechanical Engineering Technical Core |  |  |  |  |
| CS 101 | Intro Computing：Engrg \＆Sci | 3 | $\square$ | $\boxtimes$ |
| ECE 205 | Elec \＆Electronic Circuits | 3 | $\boxtimes$ | 区 |
| ECE 206 | Elec \＆Electronic Circuits Lab | 1 | $\boxtimes$ | 区 |
| TAM 210 | Introduction to Statics | 2 | 区 | 区 |
| TAM 212 | Introductory Dynamics | 3 | 区 | 区 |
| TAM 251 | Introductory Solid Mechanics | 3 | 区 | 区 |
| ME $170{ }^{1}$ | Computer－Aided Design | 3 | $\square$ | 区 |
| ME 200 | Thermodynamics | 3 | $\boxtimes$ | 区 |
| ME 270 | Design for Manufacturability | 3 | 区 | $\square$ |
| ME 310 | Fundamentals of Fluid Dynamics | 4 | 区 | $\square$ |
| ME 320 | Heat Transfer | 4 | 区 | $\square$ |
| ME 330 | Engineering Materials | 4 | $\boxtimes$ | $\square$ |
| ME 340 | Dynamics of Mechanical Systems | 3.5 | 区 | $\square$ |
| ME 360 | Signal Processing | 3.5 | $\boxtimes$ | $\square$ |
| ME 370 | Mechanical Design I | 3 | 区 | $\square$ |
| ME 371 | Mechanical Design II | 3 | $\boxtimes$ | $\square$ |
| ME 470 | Senior Design Project | 3 | 区 | $\square$ |
| Electives and composition |  |  |  |  |
| RHET $105{ }^{1}$ | Principles of Composition | 4 | $\square$ | $\square$ |
| Statistics Elective ${ }^{5}$ | IE 300，STAT 400 ／MATH 463 | 3 | $\boxtimes$ | $\square$ |
| Science Elective ${ }^{3}$ | CHEM 104 \＆105， <br> MCB 150，PHYS 213 \＆ 214 | 4 | 区 | $\begin{aligned} & \boxtimes \\ & \boxtimes \\ & \hline \end{aligned}$ |
| Technical electives ${ }^{6}$ | Chosen from departmental list，often in TGPA | 6 | 区 | $\square$ |
| MechSE electives ${ }^{7}$ | TAM and ME courses from technical elective list | 6 | 区 | $\square$ |
| General education ${ }^{2}$ |  | 18 | $\square$ | $\square$ |
| Free electives |  | 6 | $\square$ | $\square$ |

9．To remain in good academic standing and to graduate from the Mechanical Engineering（ME）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．
10．To register for third－year or 300 －level ME courses，students are required to have a grade－point average（GPA）of 2.25 or above for courses marked with an＂X＂taken from the 2．25 GPA column．

