

## CURRICULUM IN MECHANICAL ENGINEERING

The curriculum requires 128 hours for graduation.

Course Rubric	Course Name	Credit	TGPA <sup>1</sup>	2.25 GPA <sup>2</sup>
<b>Orientation and Professional Development</b>				
ENG 100	Engineering Orientation	0	<input type="checkbox"/>	<input type="checkbox"/>
ME 390	Seminar	0	<input type="checkbox"/>	<input type="checkbox"/>
<b>Foundational Mathematics and Science</b>				
CHEM 102	General Chemistry I	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
CHEM 103	General Chemistry Lab I	1	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MATH 221	Calculus I	4	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MATH 231	Calculus II	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MATH 241	Calculus III	4	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MATH 285	Intro Differential Equations	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
MATH 415	Applied Linear Algebra	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
PHYS 211	University Physics: Mechanics	4	<input type="checkbox"/>	<input checked="" type="checkbox"/>
PHYS 212	University Physics: Elec & Mag	4	<input type="checkbox"/>	<input checked="" type="checkbox"/>
<b>Mechanical Engineering Technical Core</b>				
CS 101	Intro Computing: Engrg & Sci	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ECE 205	Elec & Electronic Circuits	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ECE 206	Elec & Electronic Circuits Lab	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TAM 210	Introduction to Statics	2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TAM 212	Introductory Dynamics	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TAM 251	Introductory Solid Mechanics	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ME 170	Computer-Aided Design	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
ME 270	Design for Manufacturability	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ME 300	Thermodynamics	3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
ME 310	Fundamentals of Fluid Dynamics	4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ME 320	Heat Transfer	4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ME 330	Engineering Materials	4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ME 340	Dynamics of Mechanical Systems	3.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ME 360	Signal Processing	3.5	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ME 370	Mechanical Design I	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ME 371	Mechanical Design II	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
ME 470	Senior Design Project	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
<b>Electives and composition</b>				
RHET 105	Principles of Composition	4	<input type="checkbox"/>	<input type="checkbox"/>
Statistics Elective	IE 300, STAT 400 / MATH 463	3	<input type="checkbox"/>	<input type="checkbox"/>
Science Elective	CHEM 104/105, PHYS 213/214, MCB 150	4	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Technical electives	Chosen from departmentally approved list	6	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MechSE electives	TAM and ME courses from technical elective list	6	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Liberal education		18	<input type="checkbox"/>	<input type="checkbox"/>
Free electives		6	<input type="checkbox"/>	<input type="checkbox"/>

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