

Mechanical Engineering Degree Plan (2026/27 catalog)

First Year			
Fall		Spring	
ENGR 101: Introduction to Engineering	3	ENGR 102 or ENGR 103	3
MATH 150: Calculus I	4	PHYS 270/270L: Mechanics & Lab	4
COMP 110: Computational Problem Solving	3.5	MATH 151: Calculus II	4
Core Curriculum	3	CHEM 151/151L: General Chemistry I & Lab	4
Core Curriculum	3	Core Curriculum	3
Total Semester Units	16.5	Total Semester Units	18
Second Year			
Fall		Spring	
ENGR 102 or ENGR 103	3	ELEC 201/201L: Electrical Circuits	4
PHYS 271/271L: Elec. and Magnet. & Lab	4	MATH 250: Calculus III	4
MATH 310: Diff. Eq. & Linear Algebra	3	MENG 210: Statics	3
ECON 101/102 or ISYE 220: Economics	3	MENG 260: Intro to Thermal Science	3
Core Curriculum	3	COMM 103: Public Speaking	3
Total Semester Units	16	Total Semester Units	17
Third Year			
Fall		Spring	
MENG 300: Applied Thermodynamics	3	MENG 350: Manufacturing Processes	3
MENG 311: Engineering Materials Science	3	MENG 360: Fluid Mechanics	3
MENG 351: Machine Shop Practices	1	MENG 370/370L: Mechanics of Materials & Lab	4
MENG 352: CAD Practices	1	Math/Science elective	3
MENG 375: Dynamics	3	Core Curriculum	3
ISYE 330: Engr Probability & Statistics	3		
ENGL 304: Advanced Writing	3		
Total Semester Units	17	Total Semester Units	16
Fourth Year			
Fall		Spring	
MENG 400/400L: Heat Transfer & Lab	4	MENG 492: Senior Design Project II	3
MENG 430: Design of Machine Elements	3	MENG Simulation-Based Course	3
MENG 491: Senior Design Project I	3	MENG Elective II	3
PHIL 342: Engineering Ethics	3	MENG Elective III	3
MENG Elective I	3	Core Curriculum	3
Total Semester Units	16	Total Semester Units	15
Final Semester			
Fall			
MENG Elective IV	3		
Core Curriculum and Free Elective(s)	12.5		
Total Semester Units	15.5		
			Total MENG Degree Units 147