

Mechanical Engineering Degree Plan (2025/26 catalog)

University of San Diego

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		Total Semester Units	
16.5		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		Total Semester Units	
16		17	
Third Year			
Fall		Spring	
MENG 311: Engineering Materials Science	3	MENG 350 or ISYE 350: Manufacturing Processes	3
MENG 300: Applied Thermodynamics	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	MENG Elective I	3
MENG 375: Dynamics	3	ENGL 304: Advanced Writing	3
ISYE 330: Engr Probability & Statistics	3		
Math/Science elective	3		
Total Semester Units		Total Semester Units	
17		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 III	3
PHIL 342: Engineering Ethics	3	Core Curriculum	6
MENG Elective II	3		
Total Semester Units		Total Semester Units	
16		15	
Final Semester			
Fall			
MENG Elective IV	3		
Core Curriculum and Free Elective(s)	12.5		
Total Semester Units		Total MENG Degree Units	
15.5		147	