

Mechanical Engineering

Catalog Year 2024-2025

Note: This is a recommended sequence and shifts are likely to occur due to prerequisite completion and course availability.

Semester One	Semester Two
CHEM 1127Q: General Chemistry I (4 credits)	PHYS 1501Q: Physics for Engineers I (4 credits)
MATH 1131Q: Calculus I (4 credits)	MATH 1132Q: Calculus II (4 credits)
CSE 1010: Intro to Computing for Engineers (3 credits)	ENGR 1166: Foundations of Engineering (3 credits)
ENGL 1007: Writing and Composition (4 credits)	ME 1100: Professional Communication (3 credits)
Gen Ed (3 credits)	Gen Ed (3 credits)
18 credits	17 credits

Semester Three	Semester Four
PHYS 1502Q: Physics for Engineers II (4 credits)	ME 2250: Fluid Dynamics I (3 credits)
ME 2232: Engineering Thermodynamics (4 credits)	MATH 2410Q: Elem. Differential Equations (3 credits)
MATH 2110Q: Multivariable Calculus (4 credits)	ME 2120: Applied Mechanics II (3 credits)
CE 2110: Applied Mechanics I (3 credits)	ME 2140: CAD & Manufacturing (3 credits)
ME 2015: Intro to Computing for Mech. Eng. (1 credit)	MSE 2101: Materials Science & Engineering (3 credits)
16 credits	15 credits

Semester Five	Semester Six
ME 3970: Junior Design (3 credits)	ME 3227: Design of Machine Elements (3 credits)
ENGR 3400: Engineering Data Analysis (3 credits)	ME 3130: Advanced Engineering Math (3 credits)
ME 3242: Heat Transfer (3 credits)	ME 3262: Applied Meas. & Data Analysis (3 credits)
CE 3110: Mechanics of Materials (3 credits)	ME 3220: Mechanical Vibrations (3 credits)
ECE 2000: Electrical & Computer Eng. Prin. (3 credits)	ME Elective (3 credits)
ME 2016: Intro to Comp. Fluid Dynamics (1 credit)	ME 2017: Intro to Finite Element Analysis (1 credit)
16 credits	16 credits

Semester Seven	Semester Eight
ME 4975: Senior Design I (3 credits)	ME 4976: Senior Design II (3 credits)
ME 4974W: Ethics for Engineers (1 credit)	ME Elective (3 credits)
ME 3254: Linear Systems Theory (3 credits)	ME Elective (3 credits)
ME Elective (3 credits)	Gen Ed (3 credits)
Gen Ed (3 credits)	Gen Ed/Free Elective (3 credits)
Gen Ed (3 credits)	
16 credits	15+ credits

*as needed to reach total degree credits

See reverse for important general education and major specific information.

Total Credits: 129