

Mechanical Engineering
Catalog Year 2025-2026

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) (TOI6)	PHYS 1501Q: Physics for Engineers I (4 credits) (TOI6)
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)
ENGR 1195: AI4All (2 credits)	ME 1100: Technical Communication (3 credits)
ENGR 1000: Orientation to Engineering (1 credit)	ENGL 1007: Writing and Composition (4 credits)
TOI Course (3 credits)	
17 credits	18 credits

Semester Three	Semester Four
PHYS 1502Q: Physics for Engineers II (4 credits)(TOI 6)	ME 2140: CAD & Manufacturing (3 credits)
MATH 2110Q: Multivariable Calculus (4 credits)	MATH 2410Q: Elem. Differential Equations (3 credits)
ME 2232: Thermodynamics Principles (4 credits)	ME 2120: Applied Mechanics II (3 credits)
CE 2110: Applied Mechanics I (3 credits)	CE 3110: Mechanics of Materials (3 credits)
ME 2015: Intro to Computing for Mech. Eng. (1 credit)	ME 2250: Fluid Dynamics I (3 credits)
	ME 2016: Intro to Comp. Fluid Dynamics (1 credit)
16 credits	16 credits

Semester Five	Semester Six
ME 3970: Junior Design (3 credits)	ME 3262: Applied Meas. & Data Analysis (3 credits)
ENGR 3400: Engineering Data Analysis (3 credits)	ME 3254: Linear Systems Theory (3 credits)
ME 3130: Advanced Engineering Math (3 credits)	ME 3242: Heat Transfer (3 credits)
ME 3220: Mechanical Vibrations (3 credits)	MSE 2101: Materials Science & Engineering (3 credits)
ME 2017: Intro to Finite Element Analysis (1 credit)	ME 3227: Design of Machine Elements (3 credits)
TOI Course (3 credits)	
16 credits	15 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)
ECE 2000: Electrical & Computer Eng. Prin. (3 credits)	ME Elective (3 credits)
ME Elective (3 credits)	TOI Course (3 credits)
ME Elective (3 credits)	TOI Course (3 credits)
TOI Course (3 credits)	
16 credits	15 credits

*as needed to reach total degree credits

See reverse for important common curriculum and major specific information.

Total Credits: 129