

University of Indianapolis – Shaheen College of Arts & Sciences / R.B. Annis School of Engineering
2025-2026 Curriculum Guide for Mechanical Engineering (MENG)
 Bachelor of Science

Mechanical Engineering (MENG) is an engineering discipline that focuses on the application of engineering principles to the design and development of mechanical systems.

Freshman Year

• CHEM	150	General Chemistry I (3)
• CHEM	151	General Chemistry Laboratory I (1)
• CSCI	155	Introduction to Programming (3)
• MATH	190	Calculus and Analytic Geometry I (4)
• MATH	191	Calculus and Analytic Geometry II (4)
• PHYS	153	General Physics I, Calculus Based (4)
• ENGR	185	Orientation to Engineering (1)
• ENGR	196	Introduction to Engineering (Design Lab I) (3)
• ENGR	198	Engineering Design Lab II (1)
• MENG	120	Engineering Graphics (1)

Sophomore Year

• MATH	270	Calculus and Analytic Geometry III (4)
• MATH	280	Linear Algebra (3)
• MATH	330	Differential Equations (3)
• PHYS	163	General Physics II, Calculus Based (4)
• PHYS	230	Laboratory Instrumentation I (3)
• ENGR	210	Engineering Economics (3)
• PHYS	360	Dynamics (3)
• ENGR	296	Engineering Design Lab III (1)
• ENGR	298	Engineering Design Lab IV (1)
• MENG	210	Statics (3)
• MENG	220	Thermodynamics I (3)

Junior Year

• MENG	300	Mechanics of Solids (3)
• MENG	310	Thermodynamics II (3)
• MENG	320	Materials Processing (3)
• MENG	330	Design of Machine Components (3)
• MENG	350	Heat Transfer (3)
• MENG	360	Fluid Mechanics (3)
• ENGR	396	Engineering Design Lab V (1)
• ENGR	398	Engineering Design Lab VI (1)

Senior Year

• MENG	340	Mechanical Modeling and Simulation (3)
• MENG	410	Machine Dynamics and Mechanisms (3)
• MENG	420	Control Systems (3)
• MENG	430	Manufacturing Processes and Systems (2)
• MENG	440	Mechatronics (3)
• ENGR	496	Engineering Design Lab VII (1)
• ENGR	498	Engineering Design Lab VIII (2) (capstone)

NOTES:

- A grade of C- (1.7 on a 4.0 scale) or higher is required in all courses in the Bachelor of Science Degree in Mechanical Engineering at the University of Indianapolis.
- A minimum of 120 hours is required to earn a Bachelor of Science Degree from the University of Indianapolis.
- A typical MENG major can satisfy degree requirements with 130 credits.
- An average grade of C or higher is required in all required Engineering, Mathematics, Science and Computer Science courses for the Mechanical Engineering Program.
- A student may complete more than one major as long as each major has at least 24 discrete hours. Please see the Academic Catalog for additional details.

REMEMBER: If you have any questions about the Mechanical Engineering major requirements, contact a faculty advisor from the R. B. Annis School of Engineering (Kenneth Reid, 788-3657; Annis Hall, Room 105) or your academic advisor Courses and requirements sometimes change so keep in contact with your advisor.