MECHANICAL ENGINEERING

COLLEGE OF ARTS & SCIENCES

ABOUT THE MAJOR

- **Mechanical engineering, where ideas come to life,** is an in-demand major blending science and engineering to design, build, and transform the systems that power our world.
- **Our young, ABET-accredited program is on the rise.** With cutting-edge equipment, modern labs and lab teams of 2 to 4 students, and small class sizes, students gain personalized mentorship and immersive, hands-on experience.
- **Rooted in Jesuit education,** we connect engineering with business, health, and society to drive innovation and deliver bold solutions that shape the future.

CONTACT US

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admissions.scranton.edu/mechanicaleng

The Mechanical Engineering Program is accredited by the Engineering Accreditation Commission of ABET.

ABET | Engineering Accreditation Commission

OUTCOMES & OPPORTUNITIES

- **Gain Internships:** Supported by the Center for Career Development, students secure internships and grow networks, which eventually leads to job offers.
- **Launch Careers:** Enter fields like manufacturing, aerospace, energy, biotech, and robotics as engineers, managers, and innovators.
- **Earn Credentials:** Curriculum prepares students for the national FE exam, the first step toward a PE license, where the graduates will lead projects and advance into management roles.
- **Advance Education:** Pursue master's or doctoral programs or expand beyond engineering with an MBA or law degree (patent and technology law) to unlock high-impact careers in research, innovation, leadership, entrepreneurship, and academia.



THE UNIVERSITY *of* SCRANTON

MECHANICAL ENGINEERING

136 Credits

LEARN MORE!

1st Year: FALL

COURSE#	COURSE TITLE	CREDITS
CHEM 112	Gen. & Analytical Chemistry	3
MATH 114	Calculus I	4
WRTG 107	Composition	3
ENGR 253L	Computer Aided Design I	1.5
ENGR 150	Foundations of Physics and Engineering	3
PHIL 120	Introduction to Philosophy	3
First Year Seminar		0
	Total Credits:	**17.5**

1st Year: SPRING

COURSE#	COURSE TITLE	CREDITS
PHYS 140/140L	Elements of Physics I	4
MATH 221	Calculus II	4
ENGR 254L	Computer Aided Design II	1.5
ME 240	Introduction to Mechanical Engineering	3
T/RS 121	Theology I: Introduction to the Bible	3
First Year Seminar		0
	Total Credits:	**15.5**

2nd Year: FALL

COURSE#	COURSE TITLE	CREDITS
ENGR 250	Statistics	3
EE 250/250L	Computational Tools for Physics and Engineering	4
PHYS 141/141L	Elements of Physics II	4
MATH 222	Calculus III	4
ECO 153	Principles of Microeconomics	3
	Total Credits:	**18**

2nd Year: SPRING

COURSE#	COURSE TITLE	CREDITS
ENGR 251	Dynamics	3
ME ELECT	Mechanical Engineering Elective	3
ME 260/260L	Mechanics of Materials	4
EE 241/241L	Circuit Analysis	4
MATH 341	Differential Equations	4
	Total Credits:	**18**

3rd Year: FALL

COURSE#	COURSE TITLE	CREDITS
ME 270	Engineering Materials	3
ENGR 352	Thermodynamics	3
HUMN ELECT	Humanities Elective	3
ME 360/360L	Measurement and Instrumentation	3
ENGR 350	Applied and Engineering Mathematics	3
T/RS 122 Theology II:	Introduction to Christian Theology	3
	Total Credits:	**18**

3rd Year: SPRING

COURSE#	COURSE TITLE	CREDITS
ME 370	Manufacturing Processes	3
ME 353/353L	Fluid Mechanics	4
ME 372	Machine Design	3
ME 470/470L	Mechanical Vibrations	4
PHIL 210	Ethics	3
	Total Credits:	**17**

4th Year: FALL

COURSE#	COURSE TITLE	CREDITS
ME 460	Senior Design I	3
EE 450/450L	Control Systems	4
ME 440/440L	Heat Transfer	4
HUMN ELECT	Humanities Elective	3
ME ELECT	Mechanical Engineering Elective	3
	Total Credits:	**17**

4th Year: SPRING

COURSE#	COURSE TITLE	CREDITS
ME 461	Senior Design II	3
HUMN ELECT	Humanities Electives	6
PHIL ELECT	Philosophy Elective or **T/RS** Theology Elective	3
S/BH ELECT	Social/Behavioral Elective	3
	Total Credits:	**15**

This is a sample curriculum. Please refer to the Undergraduate Catalog at **scranton.edu/catalog**.

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