

POWERING
OPPORTUNITY



Online Part-Time
MASTER OF SCIENCE IN ENGINEERING
Concentration in General or Energy Engineering



COLLEGE OF ENGINEERING
THE UNIVERSITY OF TOLEDO



ONLINE, PART-TIME MASTER OF SCIENCE DEGREE IN ENGINEERING

Our master of science degree in engineering is an online, part-time, advanced degree specifically designed for current and future managers and engineers like you. Our cross-disciplinary approach combines study in business management and engineering, providing an alternative to a traditional business management or a technical master of science degree. You can take courses completely online or as a combination of online and on-campus offerings.

CONCENTRATION IN GENERAL ENGINEERING

Our customizable, flexible degree program will help you stay current with the latest technology and business practices to support development in your current, full-time position. Elective engineering courses are primarily from systems engineering, an area of interest to most engineers responsible for productivity enhancements. Courses in mechatronics and electrical power also are available to enhance these elective offerings.

For additional information, go to utoledo.edu/engineering/graduate-studies/ptmse-general.html.

CONCENTRATION IN ENERGY ENGINEERING

The energy field is subject to ever-increasing challenges, vital to all aspects of society and necessary for assuring a sustainable quality of life for our nation and the world. As a graduate of our master of science in engineering with a concentration in energy engineering program, you'll develop expertise in many complementary areas, such as public policy, energy management, energy economics and finance, and energy consulting. This highly customizable option is not just for engineering graduates with technical portfolios. With flexibility and options for course work in law, business and finance, the concentration in energy engineering is ideal if you're a professional at a company that generates and distributes energy, as well as anyone seeking to manage energy portfolios in a variety of businesses and industries.

For additional information, go to utoledo.edu/engineering/graduate-studies/energyengineering.html.



DEGREE REQUIREMENTS (30 HOURS)

ENGINEERING CORE

Consists of 2 or 3 courses that prepare you to use engineering analysis methods to solve practical problems in industry.

BUSINESS CORE

Consists of 2 or 3 courses designed to acquaint engineers, scientists and technologists with financial, managerial and legal/social issues that can help engineers succeed in today's marketplace.

ELECTIVE CORE

Consists of 2-to-6 elective courses from your area of concentration. Elective courses may be taken on campus or online via distance learning. Choose graduate offerings from the following departments: **bioengineering (BIOE), civil and environmental engineering (CIVE), electrical engineering and computer science (EECS) or mechanical, industrial and manufacturing engineering (MIME).**

WORK-RELATED PROJECT

The optional, 6-credit-hour, work-related project may be accomplished in coordination with your employer and a faculty member, and utilizes skills learned in the program.





BENEFITS

Our part-time master of science in engineering degree prepares you for greater responsibilities and leadership roles in your current or desired position. We help you stay current with the latest engineering and business-management practices while remaining a productive employee. The ability to customize the degree to your needs gives you the power to tailor the degree to your learning interests. You'll enjoy a flexible schedule with web-based classes that allow course work to be completed anywhere, anytime.

Your master's degree can boost your earning potential and lead to better opportunities, such as:

- Senior systems engineer
- Processing engineering manager
- Senior electrical engineer
- Design engineer
- Product engineer
- Senior chemical engineer
- Director of engineering operations
- Chief engineer

ADMISSION REQUIREMENTS

You must have a bachelor of science degree in engineering science or engineering technology and be employed in an engineering-related industry while enrolled in the program.

If you have not earned one of the above degrees, the following courses are prerequisite:

- Calculus (2 semesters)
- Physics (2 semesters)
- Chemistry and/or Engineering Materials (1 semester)
- Three courses (1 semester each) from the following: statics, dynamics, electronics, circuits, fluid mechanics, thermodynamics
- You also must be employed in an engineering-related industry while pursuing your master's degree.

CURRENT UNDERGRADUATE STUDENTS

Currently enrolled University of Toledo undergraduates may apply for the early admission B.S./M.S. program and take up to 9 credit hours of graduate course work that can be applied toward the M.S. degree while completing the B.S. degree. Consult with your academic advisor to determine your eligibility for the B.S./M.S. program.



APPLICATION PROCESS

Each admission is made on an individual basis and takes into account your previous educational record and professional experience.

The application packet consists of:

- Completed and signed application form
- Transcripts from each institution attended, showing degree earned (exception: UToledo graduates). Domestic students whose undergraduate GPA is below 2.7 must provide GRE scores. Information on the GRE is available at gre.org.
- Three letters of professional recommendation. Forms are available at utoledo.edu/graduate/files/GraduateRecommendForm_fillable.pdf.
- Professional resume
- U.S. citizens or U.S. permanent-resident cardholders: \$45, nonrefundable application fee
- All others: \$75, nonrefundable application fee

Apply online at utoledo.edu/graduate/apply.

For additional information about our programs, visit utoledo.edu/engineering/graduate-studies.



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