

Mechanical Engineering Technology

Bachelor of Science Degree

Contact

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Admission Requirements

(In years as established by the college)

A high school diploma with the following specific courses:

- 4 English
- 1 Biology (recommended)
- 2 Algebra I & II
- 1 Geometry
- 1 Pre-Calculus
- 2 Lab Science (chemistry and physics)
- 2 History/Social Studies
- Academic electives (to equal at least 17 total credits)

To ensure current mathematical skills, students should take a mathematics course during their senior year of high school.

College of Engineering

Program Description

In engineering technology, knowledge of the applied mathematical and natural sciences gained through higher education, experience and practice is devoted to the application of engineering principles and the implementation of technological advances for the benefit of humanity. Engineering technology focuses primarily on analyzing, applying, implementing and improving existing technologies. It is aimed at preparing graduates for the practice of engineering closest to the product improvement, manufacturing and engineering operational functions. UMaine's program is one of the few New England public university programs accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology. The field of mechanical engineering technology includes mechanical design, manufacturing processes and energy utilization (power generation and heating or air-conditioning buildings), as well as the economics of these activities. Classes emphasize applied engineering and are supplemented by extensive lab experience.

Specialized Information

We have a comprehensive machine tool laboratory with conventional and CNC tools where students design and build several different projects. A number of mechanical engineering technology students have had the opportunity to participate in co-op learning experiences — MET intern, Pratt & Whitney; engineering technician, Cianbro Corp.; and engineering aide, General Electric Co., and Madison Paper Industry. All incoming students are required to have a laptop computer.

Associated Honor Societies and Student Organizations

Students are encouraged to join the American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE). UMaine has a chapter of Tau Alpha Pi, the national engineering technology honor society, and the Society for Women Engineers. Students are given the opportunity to travel to the Virgin Islands National Park to work on a virtual preservation project and to Chicago for the ASHRAE annual meeting.

NEBHE Program

Applicants to this program who reside in Massachusetts, New Hampshire, Rhode Island or Vermont are eligible for reduced tuition (in-state plus 50 percent) under the New England Regional Student Program, administered through the New England Board of Higher Education (nebhe.org).

Representative Courses

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|---------|---|---------|----------------------------|
| MET 100 | Introduction to Mechanical Engineering Technology | MET 270 | Manufacturing Technology |
| MET 121 | Technical Drawing | MET 312 | Machine Tool Processing II |
| MET 107 | Machine Tool Laboratory I | MET 317 | Dynamics |
| Met 126 | Machine Drawing | MET 325 | Fluid Flow Technology |
| MET 150 | Statistics | MET 355 | Engineering Materials |
| MET 213 | Introduction to CAM and CAE | MET 462 | Design I |
| MET 219 | Strength of Materials | MET 463 | Design II |
| MET 233 | Thermal Science | MET 464 | Senior Design Project I |
| MET 234 | Mechanical Technology Laboratory I | MET 465 | Senior Design Project II |
| MET 236 | Thermal Applications | MET 484 | Engineering Economics |

Career and Graduate Opportunities

Graduates work in a wide range of careers, including product development, design, testing, manufacturing, operation and maintenance, marketing, sales and administration. Recent graduates of the program have entered such occupations as: applications engineer, Ingersoll Rand Co.; design engineer, Harris Graphics; project engineer, Enterprise Engineering; supervisor for facilities, General Electric; test engineer, National Semiconductor; staff engineer, Central Maine Power Co.; project engineer, Fiber Materials Inc.; product quality assurance engineer, Sanders Associates Inc.; field engineer, Combustion Engineering; project engineer, Verso Paper; manufacturing engineer, Pratt & Whitney; and design engineer, Lanco Assembly Systems.

UMaine Graduate Programs

Master of Science in Mechanical Engineering (Thesis)
Master of Science in Mechanical Engineering (Non-Thesis)
Doctor of Philosophy in Mechanical Engineering

About UMaine

The University of Maine, founded in Orono in 1865, is the state's premier public university. It is among the most comprehensive higher education institutions in the Northeast and attracts students from across the U.S. and more than 60 countries. It currently enrolls 12,000 total undergraduate and graduate students who can directly participate in groundbreaking research working with world-class scholars. Students are offered 88 bachelor's degree programs, 64 master's degree programs, 25 doctoral programs and one of the oldest and most prestigious honors programs in the U.S. The university promotes environmental stewardship on its campus, with substantial efforts aimed at conserving energy, recycling and adhering to green building standards in new construction. For more information about UMaine, go online (umaine.edu). Equal opportunity information also is available online (umaine.edu/eo).

How do I apply?

Visit go.umaine.edu for an application as well as information about academics and life at UMaine.



Academic Programs 2011–12

The latest versions of the UMaine fact sheets are online (factsheets.umaine.edu). This fact sheet is intended for informational purposes only and is subject to change.

