

Mechanical Engineering Technology Major

For degree requirements please review the **Mechanical Engineering Technology page** (<http://www.uwgb.edu/engineeringtech/about/mech-technology/overview.asp>)

Overview

Mechanical engineering technology is the application of engineering principles and technological developments to new and existing manufacturing systems. Mechanical engineering technologists work with engineers in designing, testing, and manufacturing mechanical equipment or systems. There are many employment opportunities in mechanical design, manufacturing and industrial engineering technology, industrial management, computer aided design, applied research and sales and service.

The BS degree in Mechanical Engineering Technology at UW-Green Bay is a professional program that prepares students for careers in applied mechanical engineering using critical problem solving skills needed in regional and national industries, manufacturing, and engineering services firms. The focus of the program is the application of engineering principles to the solution of practical problems. Students will develop skills in hands on application labs and courses that explore the fundamentals of mechanics, mathematics, physics, materials technology, and computer aided design. Teamwork, technical writing, and project management are also emphasized throughout the curriculum. The goal of the major is to develop well rounded engineering technologists that can adapt and succeed in a highly competitive workplace.

Students will benefit from relationships with local technical colleges, UW two year campuses, and local industry to complete a BS in engineering technology in the Fox Valley and Green Bay area. Students may start earning their degree at UW-Green Bay, one of the UW System two year colleges, or local technical colleges to give maximum flexibility in degree completion. In addition, the Northeast Wisconsin Educational Resource Alliance, NEW ERA, has established advisory boards linking leaders in regional industry and participating institutions to the major. Through these relationships students will have many opportunities for internships, co-op experiences, and employment after graduation.

Intern2work

Intern2work is a regional internship program, developed by NEW ERA, to connect northeast Wisconsin employers to college students seeking internship experiences. Employers post internships at the website <http://intern2work.com/invited>. Students complete a profile of their skills, area of interest, and their resume to apply for internships across a wide range of regional employers including global companies, small businesses, and community organizations. Employers can then search student profiles for potential matches and directly set up interviews.

Career Outlook

Mechanical engineering technology graduates have strong employment potential and opportunities are forecasted to keep pace with the demand for technical products. The U.S. Bureau of Labor Statistics states that jobs in this field will grow at a rate of 16 percent, or 35,000 additional jobs, through 2016.

Popular Career Options

- Mechanical Engineering Technologist
- Manufacturing Engineer Technologist
- Technical Engineer
- Design Analyst
- Mechanical Equipment Designer
- Process Designer
- Equipment Testing
- Field Service Representative

Continuing education

With work experience, graduates with a BS in mechanical engineering technology often move to supervisory positions. They also may obtain certification at several levels through the National Institute for Certification in Engineering Technologies, NICET. Graduates may also pursue graduate studies in mechanical engineering.

Program learning outcomes

1. Program graduates will secure and maintain employment in appropriate EET positions industry-wide and perform all functions assigned to an electrical engineering technologist.
2. Graduates will apply their knowledge of mathematics, science, engineering technology, and computing to identify, analyze, and solve problems pertaining to design, development, and implementation of electronic systems.
3. Graduates will exhibit a desire for life-long learning through higher education, technical training, teaching, membership in professional societies, and other developmental activities and will achieve positions of increased responsibility through these activities.

4. Graduates will demonstrate high levels of oral and written communication skills, critical thinking, responsibility and ethical behavior, teamwork and appreciation for diversity, and leadership in their careers.