What To Do With A Major In....

Northern Michigan University

Mechanical Engineering Technology

Potential Careers

NMU’s Mechanical Engineering Technology Program prepares students for employment in the following careers:

Occupations

Design Engineer
Dimensional Control Engineer
Manufacturing Engineer
Mechanical Engineer
Process Engineer
Product Designer
Project Engineer

Additional Resources and Info

For Career Planning and Opportunities:
Academic & Career Advisement Center
3302.1 C.B. Hedgcock
906-227-2971
103 Jacobetti Complex
906-227-2283
www.nmu.edu/acac

Engineering Technology Department
101 Jacobetti Complex
906-227-2141
www.nmu.edu/engineering

For Job Search, Resume and Career Information:
Career Services
3302.3 C.B. Hedgcock
906-227-2800
www.nmu.edu/careers

For Information about NMU Student Organizations Associated with this Major Contact:
Center for Student Enrichment
1206 University Center
906-227-2439
www.nmu.edu/cse

Society of Automotive Engineers Baja Racing Club

Internet Resource Links:
www.careers.org
www.careerresource.net

For Career Information with National Organizations:
www.asme.org The American Society of Mechanical Engineers

Current as of Fall 2015
Provided by:

The Academic & Career Advisement Center
It is necessary to have good communication skills, be organized and pay attention to detail. Some positions will require supervisory or management skills. You must be able to keep up with rapid advances in technological applications.

Mechanical Engineering Technology will grow more slowly than average, only expanding at a 6% rate. Salaries can range from $30,000 to $60,000 depending on location and exact duties.

Skills and Competencies

Mechanical Engineering Technologists perform a variety of important functions in industry and it is important for them to remain up-to-date in a number of areas. You must not only learn the current technology, you must become a self-directed learner to be able to keep up with the advancing technology. You will need a strong background in the basics and area specific advanced knowledge to be improve current processes and to be able to adapt to emerging technology.

Being able to work on teams to identify, analyze and solve technical problems in essential, as are effective communication skills. As an engineering professional, you need to be conscious of societal and global issues that affect your decisions.

Course Work

This degree includes the following courses as part of the program requirements, and specific major requirements along with liberal studies and graduation requirements.

Core
MET 211 Mechanics-Statics (4 cr.)
MET 213 Materials Science I (3 cr.)
MET 216 Materials Science II (3 cr.)
MET 310 Mechanics-Dynamics (3 cr.)
MET 311 Strength of Materials (4 cr.)
MET 320 Mechanical Design (4 cr.)
MET 410 Applied Thermodynamics (4 cr.)
MET 420 Fluid Mechanics (3 cr.)
MET 431 Senior Project I (1 cr.)
MET 432 Senior Project II (1 cr.)

Other required courses
CH 105 Chemical Principles (4 cr.)
DD 100 Technical Drafting and Introduction to CAD (4 cr.)
DD 202 Product Development and Design (4 cr.)
DD 203 Industrial Drawing and Design (4 cr.)
ET 110 Introduction to Electricity (4 cr.)
ET 360 Process Control Systems (3 cr.)
ET 410 Testing and Data Acquisition Techniques (3 cr.)
IT 214 Industrial Observation (1 cr.)
MA 104 College Algebra w/ App in Science and Tech (4 cr.)
MA 171 Introduction to Probability and Technologies (4 cr.)
MA 271 Calculus with Applications (4 cr.)
MF 134 Manufacturing Process (4 cr.)
PH 201 College Physics I (5 cr.)
PH 202 College Physics II (5 cr.)
TE 351 Humanity and Technology (4 cr.)

Choose one concentration:
Alternative Energies
Computer Numerical Control Technology
Manufacturing Engineering Technology
Mechatronics
Mechanical Engineering Design

Detailed course descriptions can be found at www.nmu.edu/bulletin.

Career Development

You should begin the resume-building process as soon as you can. The Academic and Career Advisement Center can assist you with career planning, while Career Services will help you fine tune your resume and look for jobs related to your field. In the meantime, the more hands-on experience you have, the better the chances are that you will find a job. Becoming involved in a professional related internship is a way to develop your professional skills and gain experience. Your academic course work is important as well, so be sure to maintain a high grade point average.

Additional Considerations

It is necessary to have good communication skills, be organized and pay attention to detail. Some positions will require supervisory or management skills. You must be able to keep up with rapid advances in technological applications.

Job Outlook

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