

# Industrial Technologies

If you already have an associate degree in a technical area then the Industrial Technologies degree may be the perfect path for you to get your baccalaureate degree while counting all the credits you earned for your associate degree.

You'll pick up a broader technological background and basic management skills that will prepare you for advancement no matter what your associate degree is in.

## Skills and Competencies

You can expect to acquire a solid background in many skill areas as an Industrial Technologies major. The liberal arts program within this degree will expose you to a lot of writing, researching and critical thinking—skills that are necessary critical in today's job market.

In fact, if you pursue an Industrial Technologies-related career, strong communication and coordination skills are absolutely necessary. Leadership skills will also benefit you in this career. Of course, your academic course work will also develop your critical thinking, problem solving, and decision making abilities. You will utilize these skills in a variety of ways in your career.

## Course Work

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

### Core

- DD100** Technical Drafting with Intro to CAD (4 cr.)
- ET110** Introduction to Electricity (4 cr.)
- IT180** Introduction to Fluid Power (3 cr.)
- IT215** General Industrial Safety (2 cr.)
- IT300** Industrial Supervision (3 cr.)
- IT340** Enterprise Resource Planning (3 cr.)
- IT420** Quality Control (3 cr.)
- MET211** Mechanics-Statistics (4 cr.)
- MET213** Materials Science I (3 cr.)
- MET134** Manufacturing Process (4 cr.)

### Other required courses

- CH105** Chemical Principles (4 cr.) or **PH201** College Physics (5 cr.)
- MA109** Intro. to Probability and Statistics (4 cr.)
- MA115** Precalculus (4 cr.)
- TE351** Humanity and Technology (4 cr.)
- ITO10** Exit Seminar (0 cr.)

### Technical or Contracted Minor (20 cr.)

Detailed course descriptions can be found at [www.nmu.edu/bulletin](http://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

Good communication skills, coordination and paying attention to detail are beneficial.

The ability to manage tasks and supervise people in a business without being biased will prove essential. Internships, coops and volunteer positions are excellent way to obtain experience in these areas.

## Job Outlook

Employment opportunities and salary for graduates with Industrial Technologies degrees varies with the technical concentration in the minor. Generally pay and demand follow that of the technical area but with increased potential due to the increased skills and advanced degree.

## Potential Careers

NMU's Industrial Technologies Program prepares students for employment in the following careers:

Automation Specialist

Department of Defense

Manufacturing Supervisor

Manufacturing Technologist

NASA

Quality Control Coordinator

Sales Representative

## Additional Resources and Information

For Career Planning and Opportunities:  
Academic & Career Advisement Center  
3302.1 C.B. Hedgcock  
906-227-2971  
[www.nmu.edu/acac](http://www.nmu.edu/acac)

Engineering Technology Department  
123 Jacobetti Complex  
906-227-2141  
[www.nmu.edu/engineering](http://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](http://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](http://www.nmu.edu/cse)

Society of Automotive Engineers Baja Racing

Internet Resource Links:  
[www.careers.org](http://www.careers.org)  
[www.bls.gov](http://www.bls.gov)

For Career Information with National Organizations:  
[www.atmae.org](http://www.atmae.org) -The Association of Technology, Management, and Applied Engineering



**NORTHERN MICHIGAN  
UNIVERSITY**

MARQUETTE, MICHIGAN

The Academic & Career Advisement Center  
2020



What to do with  
a major in...

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