

Computer Numerical Control Technology

The Computer Numerical Control Technology provides instruction in the theory, operation and programming of CNC machine tools.

Students in this program learn the basics regarding the machinery handbook, process, and maintenance. Advanced operations courses are taken later into the program.

Skills and Competencies

Like other degrees, you will be exposed to a variety of academic coursework as a Computer Numerical Control Technology major. In the process, you will acquire new skills. Specifically, your communication, analytical, technical, and computer skills will be challenged and strengthened.

Coursework will include advanced Computer Aided Design (CAD), Material Science and Machine Tool courses. Students will have a basic knowledge of manual and computer controlled machining, fixturing and industrial safety. Additionally introductory courses into the Machinery Handbook and basic welding will also be covered.

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

MF133	Machinery Handbook (2 cr.)
MF134	Manufacturing Process (4 cr.)
MF233	Numerical Control (4 cr.)
MF235	Computer Numerical Control (3 cr.)
MF263	Advanced CNC Operations (4 cr.)

Other Required Courses

IT010	Exit Seminar (0 cr.)
MA100	Intermediate Algebra (4 cr.) (or higher)
MET213	Materials Science I (3 cr.)
DD100	Technical Drafting with Intro to CAD (4 cr.)
DD103	Geometric Dimensioning/Tolerancing (2 cr.)
DD202	Product Development and Design (4 cr.)
IT215	General Industrial Safety (2 cr.)
WD140	Introduction to Welding (4 cr.)

General Education Courses

EN111	College Composition I (4 cr.)
EN211	College Composition II (4 cr.)
	General Education Electives (7 cr.)

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

This degree teaches the skills necessary to pursue an entry-level career.

Relevant work experience will be beneficial when applying for positions.

Job Outlook

Employment is supposed to grow by 7 percent through the year 2030, about as fast as average. Growth will be due to the demand for an increase of the use of advanced equipment.

Potential Careers

NMU's Computer Numerical Control Technology Program prepares students for employment in

CNC Machine Operator

CNC Machine Programmer

CNC Technician

Additional Resources and Information

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
123 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

Internet Resource Links:
www.careers.org
www.bls.gov

For more information about our graduation rates, the median debt of students who completed the program, and other important information, please visit:
<http://www.nmu.edu/institutionalresearch/disclosure>

For Career Information with National Organizations:
www.cncci.com -CNC Concept, Inc.



**NORTHERN MICHIGAN
UNIVERSITY**

The Academic & Career Advisement Center
2022



What to do with
a major in...

Computer Numerical
Control Technology
Associate's Degree

