

Associate of Applied Science in Mechanical Engineering Technology

The CAD/CAM graduate will earn an Associate of Applied Science degree in Mechanical Engineering Technology. Students completing the associate degree are qualified to play a support role to the engineering professionals in industry preparing blueprints, layouts, bills of materials, manufacturing and product support documentations. The CAD/CAM major will also prepare the student to interpret designs and to design components and tooling used in manufacturing and to operate production machines and program CNC machines, using G codes and state-of-the-art CAM software.

Career Outlook

Job seekers who have a two-year degree should have the best prospects for employment. With the shortage of skilled metalworkers in the United States today, the job opportunities are favorable for the CAD/CAM Technician.



STEM and Industrial Technology Division



Ryan Hamilton
Dean

Questions:

NSCC Admissions Office
(419) 267-1320
admissions@NorthwestState.edu

www.NorthwestState.edu

2019-2020

Education Pays

Average Annual Earnings
Based on Education



Based on data from the Bureau of Labor Statistics

NSCC is accredited by:
The Higher Learning Commission
(312) 263-0456
www.ncahigherlearningcommission.org

PROGRAM SEQUENCE

| First Semester | | Credits |
|-----------------------|--|----------------|
| +CAD112 | CAD II | 4 |
| ENG111 | Composition I | 3 |
| +IND140 | Principles of Machining | 3 |
| MET100 | Introduction to Engineering Technology | 2 |
| +MET107 | Engineering Graphics | 3 |
| | | <hr/> |
| | | 15 |

| Second Semester | | Credits |
|------------------------|--------------------|----------------|
| +CAD213 | CAD III | 4 |
| ENG112 | Composition II | 3 |
| +IND241 | Tooling & Fixtures | 3 |
| +MET222 | Programming CNC | 3 |
| MTH109 | College Algebra | 3 |
| | | <hr/> |
| | | 16 |

| Third Semester | | Credits |
|-----------------------|------------------------------------|----------------|
| +MET223 | CAM I | 4 |
| MTH112 | Trigonometry | 3 |
| +QCT100 | Quality Concepts | 3 |
| ENG210 | Technical Communications | 3 |
| | Social/Behavioral Science Elective | 3 |
| | | <hr/> |
| | | 16 |

| Fourth Semester | | Credits |
|------------------------|-----------------------------|----------------|
| +MET260 | CAM II | 3 |
| +MET262 | CAD/CAM Project | 4 |
| PHY251 | Physics: Mechanics & Heat | 4 |
| +CET115 | Project Management, or | |
| +MET121 | Manufacturing Processes, or | |
| +MET134 | Engineering Materials | 3 |
| | Humanities Elective | 3 |
| | | <hr/> |
| | | 17 |

Total Program Credit Hours **64**

+ Students must attain a minimum grade of “C” in all courses with a ‘+’ to progress in the program and to graduate.