

# Welding

## Associate of Applied Science (AAS)

North Central Michigan College and the Industrial Arts Institute, Inc. (IAI) are proud to announce a new associate degree program at North Central in welding. The general education and a portion of the technical skills coursework is completed through North Central with the remaining technical skills coursework being completed through an agreement with IAI.

Employment of welders, cutters, solderers and brazers is projected to grow 4 percent from 2014 to 2024, and reflects the need for welders in manufacturing because of the importance and versatility of welding as a manufacturing process. The basic skills of welding are similar across industries, so welders can easily shift from one industry to another, depending on where they are needed most. The nation's aging infrastructure will require the expertise of welders, cutters, solderers, and brazers to help rebuild bridges, highways, and buildings. The construction of new power generation facilities and, specifically, pipelines transporting natural gas and oil will also result in new jobs.

### OTHER OCCUPATIONAL PROGRAMS OFFERED:

#### Certificate of Development

Computer Numerical Controls (CNC)  
Machinist Technology  
Office Support Specialist  
Microsoft Office Specialist

#### Certificate

Computer-Aided Design  
Computer Information Systems  
Computer Networking Administrator  
Computer Support Specialist  
General Office Professional

#### Associate of Applied Science

Computer Information Systems  
Computer Networking  
Computer Support Specialist  
Geographic Information Systems  
Office Administrative Services  
Welding



### JOBS AVAILABLE IN:

- Automotive industry
- Oil and gas industry
- Underwater Welding
- Bridges and infrastructure
- Construction industry
- Shipbuilding industry
- Manufacturing industry



## \$37,780 - \$41,000\*

Michigan median salary

\*Bureau of Labor Statistics, Michigan, May, 2015.



Petoskey, Gaylord and Cheboygan  
www.ncmich.edu • 888-298-6605



Tammi Ward,  
Operations & Student Services Manager  
at 989-733-4369

Trades **matters!**

# North Central Michigan College

## Welding (AAS)

---

Associate of Applied Science • Program Code: 249 • Credit Hours: 60 • Contact Hours: 60

This program is designed to prepare individuals for various careers in welding. The general education and a part of technical skills coursework is completed through North Central with remaining technical skills coursework being completed through our partnership with Industrial Arts Institute, Inc (IAI).

To register for the welding courses students **must** contact the Industrial Arts Institute (IAI) at 989-733-4369 and make an appointment for a pre-admission interview.

### North Central Michigan College: 36 Credit Hours

---

#### General Education Requirements: 12 Credit Hours

---

- [COM 170 - Interpersonal Communication \(3 credit hours\)](#)
  - [ENG 111 - English Composition I \(3 credit hours\)](#)
  - [ENG 112 - English Composition II \(3 credit hours\)](#)
  - [PLS 141 - Introduction To American Government \(3 credit hours\)](#)
- or
- [PSY 161 - Introduction To Psychology \(3 credit hours\)](#) or
  - [SOC 171 - Introduction to Sociology \(3 credit hours\)](#)

#### Program Requirements: 24 Credit Hours

---

- [ARTS 101 - Three-Dimensional Design \(3 credit hours\)](#)
- [ARTS 102 - Basic Drawing and Composition \(3 credit hours\)](#)
- [B 104 - Business Math \(3 credit hours\)](#)
- [MFG 100 - Machine Shop Technology Foundation Level \(3 credit hours\)](#)
- [MFG 101 - Machine Shop Technology Level 1 \(3 credit hours\)](#)
- [MFG 102 - Machine Shop Technology Level 2 \(3 credit hours\)](#)
- [TDT 130 - CAD I \(3 credit hours\)](#)
- [TDT 132 - CAD III \(Advanced AutoCAD\) \(3 credit hours\)](#)

#### Industrial Arts Institute, Inc. (IAI): 24 Credit Hours

Basic Welding, Introduction to Blue Print Reading, Fabricating/Machining and Welding requirements must be completed through IAI Student Services Department.

To register for the welding courses students must contact the Industrial Arts Institute (IAI) at 989-733-4369 and make an appointment for a pre-admission interview.

## Suggested Sequence for Full-Time North Central Students:

---

### Semester I (Fall)

---

- [ARTS 102 - Basic Drawing and Composition \(3 credit hours\)](#)
- [B 104 - Business Math \(3 credit hours\)](#)
- [COM 170 - Interpersonal Communication \(3 credit hours\)](#)
- [MFG 100 - Machine Shop Technology Foundation Level \(3 credit hours\)](#)
- IAI - Basic Welding (3 credit hours) (To register for the welding courses students must contact the Industrial Arts Institute (IAI) at 989-733-4369 and make an appointment for a pre-admission interview.)

### Semester II (Winter)

---

- IAI - Introduction to Blue Print Reading (3 credit hours)
- IAI - Fabricating/Machining (3 credit hours)
- IAI - Welding (15 credit hours)

### Semester III (Fall)

---

- [ARTS 101 - Three-Dimensional Design \(3 credit hours\)](#)
- [ENG 111 - English Composition I \(3 credit hours\)](#)
- [MFG 101 - Machine Shop Technology Level 1 \(3 credit hours\)](#)
  
- [TDT 130 - CAD I \(3 credit hours\)](#)

### Semester IV (Winter)

---

- [ENG 112 - English Composition II \(3 credit hours\)](#)
  - [MFG 102 - Machine Shop Technology Level 2 \(3 credit hours\)](#)
  
  - [PLS 141 - Introduction To American Government \(3 credit hours\)](#) or
  - [PSY 161 - Introduction To Psychology \(3 credit hours\)](#) or
  - [SOC 171 - Introduction to Sociology \(3 credit hours\)](#)
  
  - [TDT 132 - CAD III \(Advanced AutoCAD\) \(3 credit hours\)](#)
-