Associate of Applied Science in Welding

Program Code: XXX • Credit Hours: 60 • Contact Hours: 60
Associate Dean: Pete Olson
In cooperation with Industrial Arts Institute, Inc.

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).

North Central Michigan College 36 Credit Hours

General Education Requirements: 12 Credit Hours
COM 170 Interpersonal Communication 3
ENG 111 English Composition I 3
ENG 112 English Composition II 3
PLS 141 Introduction to American Government OR
PSY 161 Introduction to Psychology OR
SOC 171 Introduction to Sociology 3

Program Requirements: 24 Credit Hours
ARTS 101 Three-Dimensional Design 3
ARTS 102 Basic Drawing and Composition 3
B 104 Business Math 3
CAM 100 Introduction of CAM Programing 1
CAM 110 CAM Operations/Work Holding 1
CAM 120 CAM Spindle Speed, Feed Rates, Cutter Compensation 1
CNC 102 Introduction of CNC Lathe Operations 1
CNC 103 Introduction to CNC Milling Operations 1
CNC 112 CNC Lathe Operation and Holding Setup 1
CNC 113 CNC Mill Operation and Holding Setup 1
CNC 122 CNC Lathe Spindle Speed & Feed Rates 1
CNC 123 CNC Mill Spindle Speed & Feed Rates 1
TDT 130 CAD I 3
TDT 132 CAD II 3

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.

Continued
### Suggested Sequence for Full-Time Students:

#### Semester I (Fall)
- **ARTS 102** Basic Drawing and Composition 3
- **B 104** Business Math 3
- **CAM 100** Introduction of CAM Programming 1
- **CNC 102** Introduction of CNC Lathe Operation 1
- **CNC 103** Introduction to CNC Milling Operation 1
- **COM 170** Interpersonal Communication 3
- **IAI** Basic Welding 3

#### Semester II (Winter)
- **IAI** Introduction to Blue Print Reading 3
- **IAI** Fabricating/Machining 3
- **IAI** Welding 15

#### Semester III (Fall)
- **CAM 110** CAM Operations/Work Holding 1
- **CNC 112** CNC Lathe Operation and Holding Setup 1
- **CNC 113** CNC Mill Operation and Holding Setup 1
- **ENG 111** English Composition I 3
- **PLS 141** Introduction to American Government OR
- **PSY 161** Introduction to Psychology OR
- **SOC 171** Introduction to Sociology 3
- **TDT 130** CAD I 3

#### Semester IV (Winter)
- **ARTS 101** Three-Dimensional Design 3
- **CAM 120** CAM Spindle Speed, Feed Rates, Cutter Compensation 1
- **CNC 122** CNC Lathe Spindle Speed & Feed Rates 1
- **CNC 123** CNC Mill Spindle Speed & Feed Rates 1
- **ENG 112** English Composition II 3
- **TDT 132** CAD II 3