

# 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**

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### 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**

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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 Programing	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 <b>OR</b>	
PSY	161	Introduction to Psychology <b>OR</b>	
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