



# INDUSTRIAL MANUFACTURING TECHNOLOGY (628)

Basic Welding (Certificate)

## ABOUT OUR PROGRAM

This program develops entry-level job skills that students require in welding and metal fabrication. These skills will be developed in the areas of Print Reading, Materials, Layout, Shielded Metal Arc Welding (SMAW), and Metal Inert Gas (GMAW).

## NATURE OF WORK AND EMPLOYMENT

The Basic Welding program provides the academic and technical skills as well as occupational basics for the person wishing to enter the field as a novice worker. Graduates will use permanent fusion (welding) techniques to fabricate metal products. This work requires laying out jobs according to drawings or blueprints and determining the welding method best suited for the metals being fused.

## PROGRAM CONTACTS

Call Highland at 815-235-6121 for the following program contacts:

Mr. Scott Anderson, Dean of Business & Technology  
 Mr. Eric Dietmeier, Industrial Technology Faculty  
 Mr. Steve Gellings, Industrial Technology Faculty  
 Mr. Dana Zimmerman, Coordinator of Career Services/  
 Student Advisor

## Required Courses

* BUSN	125	Mathematics of Business	
	-or-		3
* MATH	111	Technical Mathematics	
* BUSN	141	Business Communications	3
		(or COMM 101 or ENGL 121)	
DRAF	110	Print Reading & Inspection	2
MTEC	101	Intro to Geometric Dimension & Tolerancing	1
OCED	250	Career Seminar	1

Welding  
 1st course in Sequence A or B  
 (see sequences below) 3

Welding  
 2nd course in Sequence A or B  
 (see sequences below) 3

### Sequence A

WELD	130	Introduction to Welding	
		and	
* WELD	232	Intermediate Welding & Fabrication	

### Sequence B

WELD	135	Shielded Arc & Oxy-Acetylene Welding	
		and	
* WELD	233	Advanced Welding & Fabrication	

**Total Hours = 16**

\* Course has a prerequisite. See course descriptions.