



# Industrial Manufacturing Technology (614)

## Welding and Fabrication (Certificate)

### **ABOUT OUR PROGRAM**

Welding and Fabrication certificate graduates have the knowledge and ability required to lay out, fabricate, and weld various metals. These skills are developed in the areas of Print Reading, Shielded Metal Arc Welding (SMAW), Metal Inert Gas (GMAW), and Tungsten Inert Gas Welding (TIG).

### **NATURE OF WORK AND EMPLOYMENT**

This work requires laying out jobs according to drawings or blueprints and determining the welding process best suited for the metals being fused.

### **PROGRAM CONTACTS**

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

- Scott Anderson, Dean of Business & Technology
- Thedford Jackson, Transfer Coordinator/Student Advisor

### **Required Courses**

* BUSN	141	Business Communications (or COMM 101 or ENGL 121)	3	
	DRAF	110	Print Reading and Inspection	2
* MATH	111	Technical Math	3	
	MTEC	164	Manufacturing Processes	3
	WELD	130	Introduction to Welding	3
* WELD	232	Intermediate Welding and Fabrication	3	
* WELD	233	Advanced Welding Processes	3	
		Technical Elective	3	

**Total Hours = 23**

\* Course has a prerequisite. See course descriptions.

Technical Electives:

Electives should be selected from courses with prefixes INFT, DRAF, ELET, MTEC, or WELD.

In compliance with U.S. Department of Education disclosure guidelines, gainful employment statistics for certificate programs can be found at [www.highland.edu/hcc\\_academics](http://www.highland.edu/hcc_academics).

