

## Instructional Programs

### Welding Technology

Associate in Applied

Science 60 Credit Hours

#### Purpose

The Welding Technology Program prepares graduates to enter the field of welding. The program educates the graduate in the selection of the correct equipment; selection of filler metals; pre, intermediate, and post-heat treatment of welded metals; and proper weld techniques. The program stresses industry-wide safety procedures and trains the student to read weld symbols and detail drawings.

The Welding Technology Program provides students with a solid foundation which will enable them to achieve American Welding Society Certification in such areas as: Shielded Metal Arc Welding, Gas Metal Arc Welding, Gas Tungsten Arc Welding, and Flux-Core Arc Welding. Skills sets in pipe welding, welding in mining, and plant maintenance are available.

The full Welding Technology Program is available on the Williamson Campus. The Boone/Lincoln, Logan, and Wyoming/McDowell campuses offer the general education/program support courses only.

First Semester	Title	Credit Hours
EN 101 or EN 101A	~English Composition I	3
OR 105 (E)	Orientation to Technical Programs	1
WL 100	Oxyacetylene Welding (OAW)	4
WL 102 (E)	Fundamentals of Welding	4
WL 103 (E)	Blueprint Reading and Metallurgy	3
		<b>15</b>
Second Semester	Title	Credit Hours
MT 105 or MT 105A	Practical Math for Industrial Occupations	3
SP 103	~Speech Fundamentals	3
WL 104 (E)	Shielded Metal Arc Welding (SMAW)	3
WL 202	Gas Tungsten Arc Welding (GTAW)	3
WL 210	Commercial and Industrial Welding Practices	3
		<b>15</b>
Third Semester	Title	Credit Hours
CS 102 (E)	Computer Literacy	3
	<sup>1</sup> Management Elective	3
	<sup>2</sup> Social Science Elective	3
WL 201	Gas Metal Arc Welding (GMAW)	3
WL 203	Flux-Core Arc Welding (FCAW)	3
		<b>15</b>
Fourth Semester	Title	Credit Hours
WL 298	Welding Capstone	3
	<sup>3</sup> Specialization Courses	12
		<b>15</b>

~ Designates courses on the statewide Core Coursework Transfer Agreement.

<sup>1</sup>Choose from MG 262, MG 264, MG 266, or MG 272.

<sup>2</sup>Choose from any Psychology or Sociology course.

<sup>3</sup>Specialization Courses (minimum of 12 credit hours): Students must complete a series of restricted electives. Courses offered to fulfill the electives will be structured around current business and industry demands. Courses are limited to Advanced Welding, CAD/CAM for Welding, courses not already required by the program and other related courses as approved by the Dean, School of Career and Technical Studies.

This degree program provides students the opportunity to receive credit for their high school EDGE courses (<http://careertech.k12.wv.us/edge/edgeCollege.html>) as designated by the (E) within the program sequence.

Dean: 304.896.7365

Administrative Secretary: 304.896.7385