

Welding

Industrial Welding

Certificate
Sioux City Campus

Program Overview and Opportunities:

This program is designed to offer three different skill levels of training. After one semester of training the student can enter the job market as a beginning welder. In this initial term, the student learns entry level skills, basic shielded arc (stick), oxyacetylene, and basic metal arc gas welding. These courses can be applied toward the fulfillment of the welding diploma.

According to the Bureau of Labor Statistics, employment of welders is expected to grow for all occupations through the year 2014. (Occupational Outlook Handbook. Bureau of Labor Statistics 2006-2007.)

Qualified Welding

Diploma
Sioux City Campus

Program Overview and Opportunities:

This Welding Diploma is designed to offer three different skill levels of training. After one semester of training the student can enter a job market as a beginning welder.

During the second term, the student will learn the required competencies to meet code requirements for plate welding, out-of-position SMAW welding, gas tungsten arc welding, blueprint reading, and fabrication skills. Upon completion of the first and second semesters, the student will receive a diploma in qualification welding.

Advanced Welding

Diploma
Sioux City Campus

A diploma in advanced welding is offered upon successful completion of the third semester of pipe welding.

Program Advisors

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Industrial Welding Curriculum

Course #	Title	Credits
WEL 186	GMAW*	4
WEL 161	Arc Welding I (SMAW)*	6
	(WEL 147 and WEL 148 may be substituted for WEL 161)	
WEL 120	Oxy Fuel Welding and Cutting*	2
MAT 772	Applied Math	3
	Program Total	15

* Denotes courses commonly articulated with area high schools.

* New students may begin this program anytime throughout the semester.

See course descriptions in the back of the catalog for more detailed information about course prerequisites and co-requisites.

The courses listed above are grouped in the order that they should be taken each semester. Please see a welding advisor to ensure correct course sequence.

Qualified Welding Curriculum

Course #	Title	Credits
WEL 186	GMAW*	4
WEL 161	Arc Welding I (SMAW)*	6
	(WEL 147 and WEL 148 may be substituted for WEL 161)	
WEL 120	Oxy Fuel Welding and Cutting*	2
MAT 772	Applied Math	3
WEL 111	Welding Blueprint Reading	3
WEL 191	Gas Tungsten Arc Welding*	3
WEL 164	Arc Welding II (SMAW) OR	
WEL 700	Robotic Welding	4
WEL 208	Intro to Fabrication	2
	English General Education Elective*	3
	Program Total	30

* Denotes courses commonly articulated with area high schools.

* New students may begin this program anytime throughout the semester.

Advanced Welding Curriculum

Course #	Title	Credits
WEL 186	GMAW*	4
WEL 161	Arc Welding I (SMAW)*	6
	(WEL 147 and WEL 148 may be substituted for WEL 161)	
WEL 120	Oxy Fuel Welding and Cutting*	2
MAT 772	Applied Math	3
WEL 111	Welding Blueprint Reading	3
WEL 191	Gas Tungsten Arc Welding*	3
WEL 164	Arc Welding II (SMAW) OR	
WEL 700	Robotic Welding	4
WEL 208	Intro to Fabrication	2
ENG	English General Education Elective*	3
WEL 312	Pipe Welding/GTAW and SMAW	7
	Program Total	37

* Denotes courses commonly articulated with area high schools.