

WELDING TECHNOLOGY A.A.S.

Zach Reddig, Director

The mission of the Welding Technology Program is to provide the regional workforce with credentialed, skilled, and competent welders and to be responsive to emerging workforce needs. The Welding Technology Program prepares students to operate and troubleshoot a variety of welding power sources and related equipment. The program prepares students to solve problems using computational skills and other problem-solving techniques essential to welding and steel fabrication. It also encourages the development of the teamwork and interpersonal skills required on the job.

Welding students develop skills in six different welding processes: oxyacetylene (OAW), shielded metal arc (SMAW), gas metal arc (GMAW), flux core arc, (FCAW), submerged arc (SAW), and gas tungsten arc welding (GTAW). Students also develop additional skills, such as blueprint reading and layout, metallurgy, and gain an understanding of how heating and cooling cycles affect the properties of metals. Students also study the design of jigs and fixtures and how to incorporate these into an automated welding system.

Courses such as Computer Aided Design and Drafting (CADD), OSHA Rules and Compliance, and Related Metals Processes provide for a solid background in the metals industry. Fabrication basics and Metal Design and Construction utilize all of the gained knowledge in an instructor-approved/student-designed project.

Welding technology students have the opportunity to become certified to American Welding Society Standards and receive documentation stating qualifications.

Students are awarded the Certificate of Applied Science upon successful completion of the first year of the Welding Technology program. Students are awarded the Associate of Applied Science degree upon successfully completing the two-year program.

The program often has a waiting list. For more detailed information, visit our web site or contact Zach Reddig, Program Director, at 406-243-7644 or by email.

Associate of Applied Science - Welding Technology

Missoula College

Degree Specific Credits: 65

Required Cumulative GPA: 2.0

Catalog Year: 2017-2018

First Year Welding Program	35
Second Year Welding Program	30
Total Hours	65

First Year Welding Program

Rule: All Courses Required for the AAS in Welding

CAPP 120	Introduction to Computers	3
COMX 102	Interprsnl Skills in Workplace	1
M 111	Technical Mathematics	3
MCH 114	Related Metals Processes II	3
WLDG 117	Blueprint Rdng & Weldng Symls	3
WLDG 145	Fabrication Basics	4
WLDG 150	Welding Layout Techniques	2
WLDG 180	Shielded Metal Arc Welding	4
WLDG 184	OSHA Rules & Regulations Wldng	1
WLDG 187	Flux Core Arc Welding	4
WLDG 205	Applied Metallurgy	4
WRIT 121	Intro to Technical Writing	3
Total Hours		35

Minimum Required Grade: C-

Second Year Welding Program

Rule: All Courses Required for the AAS in Welding

BMGT 242	Front Line Supervision	3
DDSN 114	Introduction to CAD	3
MCH 214	Advanced Related Metals Proc	3
WLDG 210	Pipe Welding - Integrated Lab	4
WLDG 215	GTAW (integrated lab)	4
WLDG 245	Metal Fab Design/Construction	4
WLDG 275	Gas Metal Arc Welding	4
WLDG 280	Weld Testing Certification	2
WLDG 285	Automation in Welding	3
Total Hours		30

Minimum Required Grade: C-