

Welding

Program

Advanced Manufacturing

Degree Type

Associate in Applied Science (AAS)

The Associate in Applied Science in Advanced Manufacturing with a concentration in Welding is designed to prepare individuals for employment in the field of welding. The program is a competency based program that includes both theory and hands-on practical application based instruction. Instruction is provided in various processes and techniques of welding and cutting different types of materials. This includes, but may not be limited to, oxy-fuel cutting, carbon arc cutting, shield metal arc welding, gas tungsten arc welding, flux cored arc welding, gas metal arc welding, pipe welding, and plasma arc cutting. Students will also be trained in blueprint reading and interpreting weld symbols and joints. After completion of the program, the student will have covered skills designated by the AWS (American Welding Society) and will be prepared to take the AWS Entry Level Welder test. Students completing the Welding Technology program will also be required to participate in AWS Sense third party credentialing as part of the curriculum. This concentration area has a series of stackable short term certificates focused on specific skill sets an individual can earn as they progress toward an Associate degree or take in order to develop their skills in a particular area of demand.

First Term

Item #	Title	Credits
ADM 291	MSSC SAFETY	3
WDT 110	INDUSTRIAL BLUEPRINT READING	3
WDT 119	GAS METAL ARC/FLUX CORED ARC WELDING	3
WDT 124	GAS METAL ARC/FLUX CORED ARC WELDING LAB	3
	MTH 100 or MTH 110	3

Second Term

Item #	Title	Credits
ADM 292	MSSC QUALITY PRACTICES AND MEASUREMENT	3
WDT 108	SMAW FILLET/OFC	3
WDT 122	SMAW FILLET/OFC LAB	3
WDT 109	SMAW FILLET/PAC/CAC	3
WDT 123	SMAW FILLET/PAC/CAC LAB	3
ENG 101	ENGLISH COMPOSITION I	3

Third Term

Item #	Title	Credits
ADM 293	MSSC MANUFACTURING PROCESSES AND PRODUCTION	3
WDT 120	SHIELDED METAL ARC WELDING GROOVE	3
WDT 125	SHIELDED METAL ARC WELDING GROOVE LAB	3
WDT 228	GAS TUNGSTEN ARC WELDING	3
	Natural Science or Mathematics Elective	3

Fourth Term

Item #	Title	Credits
ADM 294	MSSC MAINTENANCE AWARENESS	3
WDT 115	GTAW CARBON PIPE	3
WDT 155	GTAW CARBON PIPE LAB	3
	Humanities and Fine Arts Elective	3

Fifth Term

Item #	Title	Credits
WDT 217	SMAW CARBON PIPE	3
WDT 257	SMAW CARBON PIPE LAB	3
WDT 218	Certification	3
	Social and Behavioral Sciences Elective	3
	Total Credits	72