

Welding Technology, A.A.S.

Program Code

AAS-ADMA-WELD

CIP

15.0613

Type

A.A.S.

The Associate in Applied Science degree in Advanced Manufacturing with a concentration in Welding will prepare graduates for employment as an entry-level welder.

GENERAL EDUCATION CORE REQUIREMENTS

Item #	Title	Credits
ENG 101	English Composition I	3
MTH 103	Introduction to Technical Mathematics	3
	Humanities/Fine Arts Elective (Excluding Speech and Foreign Language)	3
	Social & Behavioral Science Electives	3
	Natural Science or MTH Elective	3-4

ADVANCED MANUFACTURING CORE COURSE REQUIREMENTS

Item #	Title	Credits
ADM 101	Precision Measurement	3
ADM 104	Introduction to Thermal/Electrical Principles	3
ADM 105	Fluid Systems	3
ADM 106	Quality Control Concepts	3
	ADM 107 OR ADM 108	3
ADM 111	Manufacturing Safety Practices	3

WELDING CORE CLASSES

Item #	Title	Credits
WDT 100	Introduction to Applied Technologies	3
WDT 109	SMAW Fillet/PAC/CAC	3
WDT 110	Industrial Blueprint Reading	3
WDT 119	Gas Metal Arc/Flux Cored Arc Welding	3
WDT 228	Gas Tungsten Arc Welding	3

WELDING ELECTIVES: Choose 18 credit hours

Item #	Title	Credits
ARS 151	Welding Principles, Theory and Symbols	3
ARS 153	Gas Tungsten Arc and Plasma Arc Welding	3
ARS 251	Specialized Welding Processes	3
ARS 253	Welding Certification Preparation	3
WDT 120	Shielded Metal Arc Welding Groove	3
WDT 123	SMAW Fillet/PAC/CAC Lab	3
WDT 124	Gas Metal Arc/Flux Cored Arc Welding Lab	3
WDT 131	Carbon Steel Fabrication Methods	3
WDT 141	Aluminum Fabrication Methods	3
WDT 155	GTAW Carbon Pipe Lab	3
WDT 157	Consumable Welding Processes	3
WDT 160	Robotics Lab I	3
WDT 166	Flux Core Arc Welding	3
WDT 182	Special Topics	3
WDT 217	SMAW Carbon Pipe	3
WDT 218	Certification	3
WDT 219	Welding Inspection & Testing	3
WDT 257	SMAW Carbon Pipe Lab	3
WDT 259	GTAW Groove Lab	3
	Total Credits	66-67