

**Program Option: Welding Technology  
Certificate and AAS Degree Option - C238  
Careers in Welding and Welding Engineering Technology**



Course	Title	Prerequisites	Awd	Semester Hours		
				Lec	Lab	Total
<b>Diploma Awarded: Certificate (CER) - after completion of the following classes.</b>				<b>Total Hours =</b>		<b>28</b>
AUT 116	Introduction to Robotics		CER	2	2	3
AUT 130	Fundamentals Industrial Hydraulics & Pneumatics		CER	2	2	3
AUT 186	Principles of Welding & Metal Cutting Techniques		CER	1	4	3
MET 190	Mechanical Tools I		CER	2	4	4
WDT 109	SMAW Fillet/ PAC/ CAC Welding	AUT 186	CER	2	2	3
WDT 115	GTAW Carbon Pipe Welding	AUT 186	CER	1	4	3
WDT 119	Gas Metal Arc/Flux Cored Arc Welding	AUT 186	CER	2	2	3
WDT 219	Welding Inspection and Testing Theory	AUT 186	CER	3		3
WKO-110	NCCER Core Curriculum		CER	2	2	3
<b>Diploma Awarded: Advanced Certificate (ACER) - add the following classes to those listed above.</b>				<b>Total Hours =</b>		<b>40</b>
AHUM EL	Humanities & Fine Arts Elective (recommend PHL 206)		ACER	3		3
CIS 146	Microcomputer Applications		ACER	3		3
ENG 101	English Composition I	Placement	ACER	3		3
MTH 100	Intermediate College Algebra	Placement	ACER	3		3
<b>Diploma Awarded: Associate in Applied Science (AAS) - add the following classes to those listed above.</b>				<b>Total Hours =</b>		<b>65</b>
ASOC EL	Soc. & Behavr. Sci. Elective (recommend PSY 200 or SOC 200)		AAS	3		3
AUT 213	Robotics Project (Fanuc Welding Cell)	AUT 116 & AUT 186	AAS	1	4	3
PHY 115	Technical Physics	MTH 100	AAS	3	2	4
SPH 107	Fundamentals of Public Speaking		AAS	3		3
WDT 166	Flux Core Arc Welding (FCAW)	WDT 119	AAS	2	2	3
WDT 221	Pipefitting and Fabrication- Welding	WDT-115	AAS	1	4	3
WDT 229	Boiler Tube- Welding	WDT 119	AAS	1	4	3
WDT 258	Certification Lab - Welding	WDT 219	AAS		6	3

**Credentials**

Welding is a high-tech industry that can take you places all over the world. From ladders to aircraft carriers, from NASCAR to national defense, and from the laboratory to sales and repair, the varied welding industry impacts virtually every industry. Technology is creating more uses for welding in the workplace.

Various welding credentials from the National Center for Construction Education & Research (NCCER) will be awarded upon successful completion of the various welding classes shown here. NCCER's curriculum correlates to the American Welding Society (AWS) SENSE (Schools Excelling through national Skills Education) standards and guidelines for Entry Welders