



SOUTHERN UNION
STATE COMMUNITY COLLEGE
Technical Division

Associate in Applied Science in Advanced Manufacturing Concentration Area: Welding Technology

Semester	Course Prefix	Course Description	AAS	Long Certificate	Complete
1 st Semester	ADM 291	MSSC Safety	3	3	
	WDT 110	Industrial Blueprint Reading	3	3	
	WDT 119	Gas Metal Arc/Flux Cored Arc Welding	3	3	
	WDT 124	Gas Metal Arc/Flux Cored Arc Welding Lab	3	3	
	MTH 100	Intermediate College Algebra or Higher	3	3	
2 nd Semester	ADM 292	MSSC Quality Practices and Measurement	3	3	
	WDT 108	SMAW Fillet/OFC	3	3	
	WDT 122	SMAW Fillet/OFC Lab	3	3	
	WDT 109	SMAW/Fillet/PAC/CAC	3	3	
	WDT 123	SMAW/Fillet/PAC/CAC lab	3	3	
	ENG 101	English Composition I	3	3	
3 rd Semester	ADM 293	MSSC Manufacturing Processes and Production	3	3	
	WDT 120	Shielded Metal Arc Groove	3	3	
	WDT 125	Shielded Metal Arc Groove Lab	3	3	
	WDT 228	GTAW Fillet	3	3	
		* Natural Science or Mathematics Elective	3		
4 th Semester	ADM 294	MSSC Maintenance Awareness	3	3	
	WDT 115	GTAW Carbon Pipe	3	3	
	WDT 155	GTAW Carbon Pipe lab	3	3	
		* Humanities and Fine Arts Elective	3		
5 th Semester	WDT 217	SMAW Carbon Pipe	3		
	WDT 257	SMAW Carbon Pipe Lab	3		
	WDT 218	Certification	3		
		* Social and Behavioral Sciences Elective	3		
Total Hours:			72	54	

*Denotes a required academic elective to be chosen by the student.



SOUTHERN UNION
STATE COMMUNITY COLLEGE
Technical Division

Short Certificates Available in this Program of Study

Basic Gas Metal Arc Welding Short Certificate	
Course Prefix	Course Description
WDT 110	Industrial Blueprint Reading
WDT 119	Gas Metal Arc/Flux Cored Arc Welding
WDT 124	Gas Metal Arc/Flux Cored Arc Welding Lab
Total Hours: 9	

Basic Shielded Metal Arc Welding Short Certificate	
Course Prefix	Course Description
WDT 108	SMAW Fillet/OFC
WDT 122	SMAW Fillet/OFC Lab
WDT 109	SMAW/Fillet/PAC/CAC
WDT 123	SMAW/Fillet/PAC/CAC lab
Total Hours: 12	

Gas-Tungsten Arc Welding Short Certificate	
Course Prefix	Course Description
WDT 120	Shielded Metal Arc Groove
WDT 125	Shielded Metal Arc Groove Lab
WDT 228	GTAW Fillet
Total Hours: 9	

Carbon Arc Pipe Welding Short Certificate	
Course Prefix	Course Description
WDT 115	GTAW Carbon Pipe
WDT 155	GTAW Carbon Pipe lab
WDT 217	SMAW Carbon Pipe
WDT 257	SMAW Carbon Pipe Lab
WDT 218	Certification
Total Hours: 15	

Manufacturing Production Technician Short Certificate	
Course Prefix	Course Description
ADM 291	MSSC Safety
ADM 292	MSSC Quality Practices and Measurement
ADM 293	MSSC Manufacturing Processes and Production
ADM 294	MSSC Maintenance Awareness
Total Hours: 12	