

STACKABLE CREDENTIAL: WELDING TECHNOLOGY

Students who elect to follow this academic plan may complete the following certificates while completing the requirements for the Engineering Technology, Associate in Applied Science:

- Skilled Trades Industrial Occupations Technology, Certificate of Specialization
- Welding Technology, Certificate of Specialization
- Welding Technology, Certificate of Proficiency

Students are encouraged to consult with an academic advisor to confirm course selection and ensure alignment with program requirements and graduation goals.

For additional information about the Welding Technology, Certificate of Specialization, please refer to the **Welding Technology, Certificate of Specialization catalog page** (<https://catalog.stlcc.edu/programs/welding-technology-cs/>).

For additional information about the Welding Technology, Certificate of Proficiency, please refer to the **Welding Technology, Certificate of Proficiency catalog page** (<https://catalog.stlcc.edu/programs/welding-technology-cp/>).

Code	Title	Hours	Prerequisites	Milestones/Notes
First Year				
Fall				
GE 131	Engineering Technology Orientation	1	Reading Proficiency	Exploratory Course
MTH 140	Intermediate Algebra	3	Satisfactory placement and Reading Proficiency	
WEL 100	Welding Theory	2	Reading Proficiency	Gateway Course, Critical Course
WEL 150	Welding I - Oxy-Acetylene Welding	3	Reading Proficiency	Critical Course, First 5 weeks
WEL 152	Welding II - Oxy-Acetylene Cutting, Brazing, and Soldering	2	WEL 150 with a minimum grade of "C" and Reading Proficiency	Second 5 weeks
WEL 154	Arc Welding I - Flat and Tee Joints	3	WEL 152 with a minimum grade of "C" and Reading Proficiency	Third 5 weeks
GE 141	OSHA 10	1	Reading Proficiency	Apply for graduation for Skilled Trades Industrial Occupations Technology, Certificate of Specialization.
	Credit Hours	15		
Spring				
Select one of the following:		3		
ENG 101	College Composition I (MOTR ENGL 100)		Placement score or ENG 030 or ENG 070 or EML 072 with a minimum grade of "C", or recommendation of department, and Reading Proficiency, or concurrent enrollment in RDG 079	
ENG 102	College Composition II (MOTR ENGL 200)		ENG 101 with a minimum grade of "C" and Reading Proficiency	
WEL 156	Arc Welding II - Horizontal, Vertical, and Overhead	6	WEL 154 with a minimum grade of "C" and Reading Proficiency	First 8 weeks
WEL 160	GMAW and FCAW Welding	2	WEL 156 with a minimum grade of "C" and Reading Proficiency	Weeks 9-12
WEL 162	GTAW Welding	2	WEL 152 with a minimum grade of "C" and Reading Proficiency	Weeks 13-14
WEL 163	Large Diameter Welding	2	WEL 156 with a minimum grade of "C" and Reading Proficiency	Weeks 15-16
	Credit Hours	15		

Summer				
XXX xxx	Social & Behavioral Sciences: Civics Requirement (https://catalog.stlcc.edu/general-education/)	3		
	Credit Hours	3		
Second Year				
Fall				
GE 140	Industrial Occupations Fundamentals	3	Reading Proficiency	Apply for graduation for Welding Technology, Certificate of Specialization.
EE 134	Electric Circuits	6	MTH 140 (or MTH 140S) with a minimum grade of "C" or equivalent placement test scores or department approval and Reading Proficiency	Critical Course
GE 101	Technical Computer Applications	3	Reading Proficiency	
GE 135	Blueprint Reading for Engineering Technicians	2	Reading Proficiency	
	Credit Hours	14		
Spring				
ME 249	Materials and Metallurgy	3	Reading Proficiency	Apply for graduation for Welding Technology, Certificate of Proficiency.
Select one of the following:		3		
BIO 109	Human Biology (MOTR LIFS 100)		Reading Proficiency or concurrent enrollment in RDG 079	
PSI 101	Physical Science (MOTR PHYS 110)		MTH 108 or MTH 140S with a minimum grade of "C", or placement into MTH 140 or higher, and Reading Proficiency	
GE 240	Product Design and Fabrication	4	ME 151 or EE 134 or EGR 100 or ME 111 with minimum grades of "C" or department approval, and Reading Proficiency	
Select one of the following:		3		
COM 101	Oral Communication I (MOTR COMM 100)		Concurrent enrollment in ENG 070 or EML 072 or EML 073 or Reading Proficiency	
COM 107	Public Speaking (MOTR COMM 110)		Reading Proficiency	
COM 201	Interpersonal Communication (MOTR COMM 120)		Reading Proficiency	
	Credit Hours	13		
	Total Credit Hours	60		