

WELDING TECHNOLOGY

This program of study emphasizes the skills needed for employment in the welding industry, including the manufacturing, fabrication, maintenance, and construction sectors.

- **Technical Certificate Option** - The Technical Certificate in Welding Technology is a two semester program that contains technical and advanced technical courses.
- **Associate of Applied Science Degree Option** - The Associate of Applied Science degree, with a major in Welding Technology, is a four semester program that contains technical, advanced technical and general education courses.

Admission Criteria: Math placement test for Technical Math and preadmission advising.

Technical Education Courses

Fall Semester			Spring Semester			
Course Title	Credits		Course Title	Credits		
ENV 102	Safety Orientation (OSHA-10)	1	WEL 115	Gas Metal Arc Welding	3	
MAT 101	Technical Math	3	WEL 116	Gas Tungsten Arc Welding	3	
WEL 105	Welding Theory	3	WEL 120	Fabrication and Production	3	
WEL 106	Cutting Processes	3	WEL 215	Gas Metal Arc Welding II	3	
WEL 111	Shielded Metal Arc Welding	3	WEL 216	Gas Tungsten Arc Welding II	3	
WEL 112	Shielded Metal Arc Welding II	3	WEL 223	Core Wire Welding	3	
WEL 150	Welding Blueprint Reading	3				
Semester Total		19	Semester Total		18	
					Total Technical Certificate Credits	37

General Education Courses.....Credits

- COM 102 Interpersonal Communication or COM 105 Public Speaking 3
- CSA 105 Introduction to Computer Applications and Concepts 3
- ENG 100 Technical Writing or ENG 101 English Composition I 3
- HUM 101 Ethics in the Workplace or PSY 101 General Psychology 3
- MAT 101 Technical Math or MAT 150 College Algebra 3

TOTAL GENERAL EDUCATION CREDITS.....15

TOTAL RELATED ELECTIVE CREDITS.....9

TOTAL AAS PROGRAM CREDITS.....60

PROGRAM OUTCOMES

- Demonstrate an understanding of the methods and problems of production and exchange.
- Identify quality welding design and workmanship.
- Demonstrate competency in the ability to select, care for, and use industrial products wisely.
- Demonstrate competency in basic welding fundamentals.
- Identify materials and processes commonly used in welding.
- Develop work habits and interpersonal skills necessary to be a productive employee.
- Demonstrate ability to use welding tools and machines.

GENERAL EDUCATION PROGRAM OUTCOMES

- Compose coherent written communication.
- Deliver coherent oral communication.
- Show proficiency in locating, analyzing, documenting, and ethically using information sources.
- Perform and interpret calculations.
- Develop logical problem solving skills and/or critical thinking skills.
- Identify appropriate strategies for gathering, analyzing, and displaying data to draw conclusions from scientific data.
- Collaborate effectively, which cultivates a respect for human diversity.
- Demonstrate technology literacy appropriate to area of study.

