

WELDING TECHNOLOGY

The Welding Technology curriculum provides students with a sound understanding of the science, technology, and applications essential for successful employment in the welding and metalworking industry.

Instruction includes consumable and non-consumable electrode welding and cutting processes. Courses may include math, print reading, metallurgy, welding inspection, and destructive and non-destructive testing providing the student with industry-standard skills developed through classroom training and practical application.

Graduates of the Welding Technology curriculum may be employed as entry-level technicians in the welding and metalworking industries. Career opportunities also exist in construction, manufacturing, fabrication, sales, quality control, supervision, and welding-related self-employment.

Program Learning Outcomes:

- ◆ Demonstrate proper safety practices applicable to industrial work environment.
- ◆ Apply basic/strategic techniques to perform sufficient weld bead patterns using various industrial processes.
- ◆ Interpret industrial prints, welding symbols and process designs applicable to required procedures.
- ◆ Use various measuring/lay-out tools and jigs to prepare work for fabrication.

WELDING TECHNOLOGY

A.A.S. Degree (A50420)

Suggested Sequence of Courses

Prefix	Course Title	Class	Lab	Clinic	Work	Credit
FALL SEMESTER 1						
ACA 115	Success and Study Skills	0	2	0	0	1
BPR 111	Print Reading	1	2	0	0	2
CIS 110	Introduction to Computers	2	2	0	0	3
ISC 112	Industrial Safety	2	0	0	0	2
WLD 110	Cutting Processes	1	3	0	0	2
WLD 112	Basic Welding	1	3	0	0	2
WLD 121	GMAW (MIG) FCAW/Plate	2	6	0	0	4
	TOTALS	9	18	0	0	16
SPRING SEMESTER 1						
MEC 110	Intro to CAD/CAM	1	2	0	0	2
WLD 115	SMAW (Stick) Plate	2	9	0	0	5
WLD 131	GTAW (TIG) Plate	2	6	0	0	4
WLD 141	Symbols and Specifications	2	2	0	0	3
WLD 151	Fabrication I	2	6	0	0	4
	TOTALS	9	25	0	0	18
SUMMER SEMESTER						
ENG 110	Freshman Composition <i>or</i>					
ENG 111	Writing and Inquiry	3	0	0	0	3
	Humanities/Fine Arts Elective	3	0	0	0	3
	TOTALS	6	0	0	0	6
FALL SEMESTER 2						
BUS 137	Principles of Management	3	0	0	0	3
ELC 112	DC/AC Electricity	3	6	0	0	5
MAT 110	Math Measurement and Literacy	2	2	0	0	3
MEC 111	Machine Processes I	1	4	0	0	3
	TOTALS	9	12	0	0	14

Prefix	Course Title	Class	Lab	Clinic	Work	Credit
SPRING SEMESTER 2						
BUS 152	Human Relations	3	0	0	0	3
COM 231	Public Speaking <i>or</i>					
ENG 115	Oral Communication	3	0	0	0	3
WBL 111	Work Based Learning	0	0	0	10	1
	Behavioral/Social Sciences Elective	3	0	0	0	3
	TOTALS	9	0	0	10	10
PROGRAM TOTAL						64