

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	Prefix	Course Title	Class	Lab	Clinic	Work	Credit
FALL SEMESTER 1							SPRING SEMESTER 2						
ACA 115	Success and Study Skills	0	2	0	0	1	BUS 152	Human Relations	3	0	0	0	3
BPR 111	Print Reading	1	2	0	0	2	COM 231	Public Speaking <i>or</i>					
CIS 110	Introduction to Computers	2	2	0	0	3	ENG 115	Oral Communication	3	0	0	0	3
ISC 112	Industrial Safety	2	0	0	0	2	WLD 151	Fabrication I	2	6	0	0	4
WLD 110	Cutting Processes	1	3	0	0	2		Behavioral/Social Sciences Elective	3	0	0	0	3
WLD 112	Basic Welding	1	3	0	0	2	TOTALS		11	6	0	0	13
WLD 141	Symbols and Specifications	2	2	0	0	3	PROGRAM TOTAL						65
TOTALS		9	14	0	0	15							
SPRING SEMESTER 1													
DFT 151	CAD I	2	3	0	0	3							
WLD 115	SMAW (Stick) Plate	2	9	0	0	5							
WLD 121	GMAW (MIG) FCAW/Plate	2	6	0	0	4							
WLD 131	GTAW (TIG) Plate	2	6	0	0	4							
TOTALS		8	24	0	0	16							
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													
ELC 111	Intro to Electricity	2	2	0	0	3							
MAT 110	Math Measurement and Literacy	2	2	0	0	3							
WLD 132	GTAW (TIG) Plate/Pipe	1	6	0	0	3							
WLD 212	Inert Gas Welding	1	3	0	0	2							
WLD 265	Automated Welding/Cutting	2	6	0	0	4							
TOTALS		8	19	0	0	15							