

# Welding

## Career Technologies



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### ABOUT THIS FIELD

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



### WHAT YOU'LL STUDY

Course work includes consumable and non-consumable electrode welding and cutting processes. Courses in math, blueprint reading, metallurgy, welding inspection, and destructive and non-destructive testing provides the student with industry-standard skills developed through classroom training and practical application.



### WHAT YOU CAN DO


Employment opportunities include entry-level technicians in welding and metalworking industries. Career opportunities also exist in construction, manufacturing, fabrication, sales, quality control, supervision and welding-related self-employment.

#### PROGRAM START DATES:

Fall or Spring Semester

#### FOR MORE INFORMATION CONTACT:

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### CLASSES YOU'LL NEED TO TAKE

#### ASSOCIATE IN APPLIED SCIENCE (AAS) - A50420

Total Semester Hour Credits: 65

##### FALL SEMESTER 1

Prefix	Number	Title	Class	Lab	Clinical	Credit
ACA	111	College Student Success	1	0	0	1
DFT	151	CAD I	2	3	0	3
WLD	110	Cutting Processes	1	3	0	2
WLD	121	GMAW (MIG) FCAW/Plate	2	6	0	4
WLD	141	Symbols & Specifications	2	2	0	3
		Totals	8	14	0	13

##### SPRING SEMESTER 1

CIS	110	Introduction to Computers	2	2	0	3
WLD	115	SMAW (Stick) Plate	2	9	0	5
WLD	131	GTAW (TIG) Plate	2	6	0	4
<b>Choose one of the following:</b>						
MAT	110	Math Measurement & Literacy	2	2	0	3
MAT	143	Quantitative Literacy	2	2	0	3
		Totals	8	19	0	15

##### SUMMER SEMESTER

HUM	115	Critical Thinking	3	0	0	3
WLD	261	Certification Practices	1	3	0	2
<b>Choose one of the following:</b>						
PSY	118	Interpersonal Psychology	3	0	0	3
PSY	150	General Psychology	3	0	0	3
		Totals	7	3	0	8

##### FALL SEMESTER 2

COM	231	Public Speaking	3	0	0	3
ISC	112	Industrial Safety	2	0	0	2
WLD	116	SMAW (Stick) Plate/Pipe	1	9	0	4
WLD	132	GTAW (TIG) Plate/Pipe	1	6	0	3
WLD	151	Fabrication I	2	6	0	4
		Totals	9	21	0	16

##### SPRING SEMESTER 2

WLD	215	SMAW (Stick) Pipe	1	9	0	4
WLD	231	GTAW (TIG) Pipe	1	6	0	3
WLD	251	Fabrication II	1	6	0	3
<b>Choose one of the following:</b>						
ENG	110	Freshman Composition	3	0	0	3
ENG	111	Writing and Inquiry	3	0	0	3
		Totals	6	21	0	13

### DIPLOMA/CERTIFICATE OPTIONS

#### DIPLOMA - D50420

Total Semester Hour Credits: 38

##### FALL SEMESTER 1

Prefix	#	Title	Class	Lab	Clinical	Credit
ACA	111	College Student Success	1	0	0	1
WLD	110	Cutting Processes	1	3	0	2
WLD	121	GMAW (MIG) FCAW/Plate	2	6	0	4
WLD	141	Symbols & Specifications	2	2	0	3
<b>Choose one of the following:</b>						
ENG	110	Freshman Composition	3	0	0	3
ENG	111	Writing and Inquiry	3	0	0	3
		Totals	9	11	0	13

##### SPRING SEMESTER 1

WLD	115	SMAW (Stick) Plate	2	9	0	5
WLD	131	GTAW (TIG) Plate	2	6	0	4
<b>Choose one of the following:</b>						
MAT	110	Math Measurement & Literacy	2	2	0	3
MAT	143	Quantitative Literacy	2	2	0	3
		Totals	6	17	0	12

##### SUMMER SEMESTER

WLD	261	Certification Practices	1	3	0	2
		Totals	1	3	0	2

##### FALL SEMESTER 2

WLD	116	SMAW (Stick) Plate/Pipe	1	9	0	4
WLD	132	GTAW (TIG) Plate/Pipe	1	6	0	3
WLD	151	Fabrication I	2	6	0	4
		Totals	4	21	0	11

#### CERTIFICATE - C50420 & C50420CP\*

Total Semester Hour Credits: 18

##### FALL SEMESTER 1

Prefix	#	Title	Class	Lab	Clinical	Credit
WLD	110	Cutting Processes	1	3	0	2
WLD	115	SMAW (Stick) Plate	2	9	0	5
WLD	121	GMAW (MIG) FCAW/Plate	2	6	0	4
WLD	131	GTAW (TIG) Plate	2	6	0	4
WLD	141	Symbols & Specifications	2	2	0	3
		Totals	9	26	0	18

\* This degree is offered to high school students through the Career & College Promise initiative. For more info visit [www.southwesterncc.edu/ccp](http://www.southwesterncc.edu/ccp)