

**EIGHT CERTIFICATES OF ACHIEVEMENT AND  
EIGHT ASSOCIATE OF SCIENCE DEGREES ARE AVAILABLE**

- **AEROSPACE WELDING**
- **ARC WELDING**
- **COMBINATION WELDER**
- **GAS TUNGSTEN ARC WELDING**
- **PIPE WELDING**
- **PROCESS PIPE WELDING**
- **STRUCTURAL STEEL  
FABRICATOR**
- **WELDING FABRICATION AND  
LAYOUT**



**ARC WELDING CERTIFICATE (19 UNITS)**

- WELD 149 Welding Shop Math (4 units) .....completed
- WELD 159 Blueprint Reading for the Welding Trades (4 units).....completed
- WELD 120 Beginning Arc Welding (5 units) .....completed
- WELD 200 Intermediate Arc Welding (4 units).....completed
- WELD 210L Advanced Arc Welding Laboratory (2 units) .....completed

**GAS TUNGSTEN ARC WELDING CERTIFICATE (18 UNITS)**

- WELD 149 Welding Shop Math (4 units) .....completed
- WELD 159 Blueprint Reading for the Welding Trades (4 units).....completed
- WELD 120 Beginning Arc Welding (5 units) .....completed
- WELD 130 Gas Tungsten Arc Welding Fundamentals (5 units).....completed

**STRUCTURAL STEEL CERTIFICATE (15 UNITS)**

- WELD 149 Welding Shop Math (4 units) .....completed
- WELD 159 Blueprint Reading for the Welding Trades (4 units).....completed
- WELD 120 Beginning Arc Welding (4 units) .....completed
- WELD 170 Structural Fabrication (2 units) .....completed
- WELD 172L Advanced Structural Fabrication Laboratory (1 unit) .....completed

**WELDING FABRICATION AND LAYOUT CERTIFICATE (19 UNITS)**

- WELD 120 Beginning Arc Welding (5 units) .....completed
- WELD 149 Welding Shop Math (4 units) .....completed
- WELD 159 Blueprint Reading for the Welding Trades (4 units).....completed
- WELD 170 Structural Fabrication (2 units) .....completed
- WELD 200 Intermediate Arc Welding (4 units).....completed





### PIPE WELDING CERTIFICATE (23 UNITS)

- WELD 120 Beginning Arc Welding (5 units) ..... completed
- WELD 149 Welding Shop Math (4 units) ..... completed
- WELD 153 Pipe Layout (2 units) ..... completed
- WELD 159 Blueprint Reading for the Welding Trades (4 units) ..... completed
- WELD 200 Intermediate Arc Welding (4 units) ..... completed
- WELD 210L Advanced Arc Welding Laboratory (2 units) ..... completed
- WELD 252L Pipe Welding Level 1 (2 units) ..... completed

### AEROSPACE WELDING CERTIFICATE (18 UNITS)

- WELD 149 Welding Shop Math (4 units) ..... completed
- WELD 159 Blueprint Reading for the Welding Trades (4 units) ..... completed
- WELD 130 Gas Tungsten Arc Welding Fundamentals (4 units) ..... completed
- WELD 240L Intermediate Gas Tungsten Arc Welding Laboratory (2 units) ..... completed
- WELD 250L Advanced Gas Tungsten Arc Welding Lab (2 units) ..... completed
- WELD 260L Gas Tungsten Arc Welding Aerospace Certification Lab (2 units) ..... completed

### COMBINATION WELDER CERTIFICATE (22 UNITS)

- WELD 149 Welding Shop Math (4 units) ..... completed
- WELD 159 Blueprint Reading for the Welding Trades (4 units) ..... completed
- WELD 120 Beginning Arc Welding (5 units) ..... completed
- WELD 130 Gas Tungsten Arc Welding Fundamentals (5 units) ..... completed
- WELD 200 Intermediate Arc Welding (4 units) ..... completed

### PROCESS PIPE WELDING CERTIFICATE: (20 UNITS)

- WELD 149 Welding Shop Math (4 units) ..... completed
- WELD 159 Blueprint Reading for the Welding Trades (4 units) ..... completed
- WELD 153 Pipe Layout (2 units) ..... completed
- WELD 200 Intermediate Arc Welding (4 units) ..... completed
- WELD 210L Advanced Arc Welding Laboratory (2 units) ..... completed
- WELD 252L Pipe Welding Level 1 (2 units) ..... completed
- WELD 254L Pipe Welding Level 2 (2 units) ..... completed

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Dear Welding student,

This handout has been designed to clarify the path to success. Students wanting to earn this Certificate of Achievement may start in either the Fall or Spring semester. Students will enter the path in the first semester by taking Welding Shop Math (Weld 149) and Beginning Arc Welding (Weld 120). Weld 149 provides students with the technical math skills required to be successful in the industry. Weld 120 is the first step for students wanting to become certified structural steel welders.

In the second semester, students will stay the path by taking Blueprint Reading for Welders (Weld 159) and Intermediate Arc Welding (Weld 200). Weld 159 teaches students how to read blueprints used in the industry. Weld 200 provides students with the skills required to obtain certification in the SMAW and FCAW welding processes and is the second of three steps required to become a certified structural steel welder. In the third semester, students will complete the path by taking Advanced Arc Welding (Weld 210L). Weld 210L is a laboratory only class and is the third and last step required for students to obtain multiple structural steel welding certifications.



#### ASSOCIATE OF ARTS DEGREE IS ALSO AVAILABLE

#### NEW STUDENTS FIRST SEMESTER (FALL)

Course	Course Name	Semester Offered
WELD 149 (4 units)	Welding Shop Math	Fall and Spring
WELD 120 (5 units)	Beginning Arc Welding	Fall, Spring, and Summer
<b>9 Units</b>	<b>2 Classes</b>	

#### CONTINUING STUDENTS SECOND SEMESTER (SPRING)

Course	Course Name	Semester Offered
WELD 159 (4 units)	Blueprint Reading for the Welding Trades	Fall and Spring
WELD 200 (4 units)	Intermediate Arc Welding	Fall and Spring
<b>8 Units</b>	<b>2 Classes</b>	

#### CONTINUING STUDENTS THIRD SEMESTER (FALL)

Course	Course Name	Semester Offered
WELD 210L (2 units)	Advanced Arc Welding Laboratory	Fall and Spring
<b>2 Units</b>	<b>1 Class</b>	

Notes : [L] = Lab only course



## Welding Technology

For more information on Certificates, please refer to the current General Catalog: [www.cerritos.edu/catalog](http://www.cerritos.edu/catalog)

Dear Welding student,

This handout has been designed to clarify the path to success. Students wanting to earn this Certificate of Achievement may start in either the Fall or Spring semester. Students will enter the path in the first semester by taking Welding Shop Math Weld 149 and Gas Tungsten Arc Welding Fundamentals (Weld 130). Weld 149 provides students with the technical math skills required to be successful in the industry. (Weld 130) is the first step for students wanting to enter the Aerospace Industry as a certified welder.

In the second semester, students will complete the path by taking Blueprint Reading for Welders (Weld 159) and Beginning Arc Welding (Weld 120). Weld 159 teaches students how to read blueprints used in the industry. Weld 120 is the first step for students wanting to become certified structural steel welders..



#### ASSOCIATE OF ARTS DEGREE IS ALSO AVAILABLE

#### NEW STUDENTS FIRST SEMESTER (FALL)

Course	Course Name	Semester Offered
WELD 149 (4 units)	Welding Shop Math	Fall and Spring
WELD 130 (5 units)	Gas Tungsten Arc Welding Fundamentals	Fall and Spring
<b>9 Units</b>	<b>2 Classes</b>	

#### CONTINUING STUDENTS SECOND SEMESTER (SPRING)

Course	Course Name	Semester Offered
WELD 159 (4 units)	Blueprint Reading for the Welding Trades	Fall and Spring
WELD 120 (5 units)	Beginning Arc Welding	Fall, Spring and Summer
<b>9 Units</b>	<b>2 Classes</b>	



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In the second semester, students will stay the path by taking Blueprint Reading for Welders (Weld 159) and Intermediate Arc Welding (Weld 200). Weld 159 teaches students how to read blueprints used in the industry. Weld 200 provides students with the skills required to obtain certification in the SMAW and FCAW welding processes and is the second of three steps required to become a certified structural steel welder. In the third semester, students will take Pipe Layout (Weld 153) and Advanced Arc Welding (Weld 210L). Weld 153 teaches students how to custom fabricate pipe into real world applications like those found in power plants and oil refineries. Weld 210L is a laboratory only class and is the third and last step where students obtain multiple structural steel welding certifications. In the fourth semester, students will complete the path by taking Pipe Welding Level 1 (Weld 252L). Students will learn the technical aspects of pipe welding data and will develop the hands-on skills leading to Pipe Welding Certifications.



## ASSOCIATE OF SCIENCE DEGREE IS ALSO AVAILABLE NEW STUDENTS FIRST SEMESTER (FALL)

Course	Course Name	Semester Offered
WELD 149 (4 units)	Welding Shop Math	Fall and Spring
WELD 120 (5 units)	Beginning Arc Welding	Fall, Spring, and Summer
<b>9 Units</b>	<b>2 Classes</b>	

## CONTINUING STUDENTS SECOND SEMESTER (SPRING)

Course	Course Name	Semester Offered
WELD 159 (4 units)	Blueprint Reading for the Welding Trades	Fall and Spring
WELD 200 (4 units)	Intermediate Arc Welding	Fall and Spring
WELD 153 (2 Units)	Pipe Layout	Spring
<b>10 Units</b>	<b>3 Classes</b>	

## CONTINUING STUDENTS THIRD SEMESTER (FALL)

Course	Course Name	Semester Offered
WELD 210L (2 units)	Advanced Arc Welding Laboratory	Fall and Spring
<b>2 Units</b>	<b>1 Class</b>	

## CONTINUING STUDENTS FOURTH SEMESTER (SPRING)

Course	Course Name	Semester Offered
WELD 252L (2 units)	Pipe Welding Level 1	Fall and Spring
<b>2 Units</b>	<b>1 Class</b>	

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In the second semester, students will stay the path by taking Blueprint Reading for Welders (Weld 159) and Intermediate Arc Welding (Weld 200). Weld 159 teaches students how to read blueprints used in the industry. Weld 200 provides students with the skills required to obtain certification in the SMAW and FCAW welding processes and is the second of three steps required to become a certified structural steel welder. In the third semester, students will complete the path by taking Structural Fabrication (Weld 170). Weld 170 teaches students the proper use of industrial metal fabrication equipment used in the industry to build and fabricate everything from racecars to high rise buildings.



### ASSOCIATE OF SCIENCE DEGREE IS ALSO AVAILABLE

#### NEW STUDENTS FIRST SEMESTER (FALL)

Course	Course Name	Semester Offered
WELD 149 (4 units)	Welding Shop Math	Fall and Spring
WELD 120 (5 units)	Beginning Arc Welding	Fall, Spring, and Summer
<b>9 Units</b>	<b>2 Classes</b>	

#### CONTINUING STUDENTS SECOND SEMESTER (SPRING)

Course	Course Name	Semester Offered
WELD 159 (4 units)	Blueprint Reading for the Welding Trades	Fall and Spring
WELD 200 (4 units)	Intermediate Arc Welding	Fall and Spring
<b>8 Units</b>	<b>2 Classes</b>	

#### CONTINUING STUDENTS THIRD SEMESTER (FALL)

Course	Course Name	Semester Offered
WELD 170 (2 units)	Structural Fabrication	Fall
<b>2 Units</b>	<b>1 Class</b>	



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