

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
9 Units	2 Classes	

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
8 Units	2 Classes	

CONTINUING STUDENTS THIRD SEMESTER (FALL)

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

Notes : [L] = Lab only course



Welding Technology

For more information on Certificates, please refer to the current General Catalog: 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
9 Units	2 Classes	

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
9 Units	2 Classes	



Welding Technology

For more information on Certificates, please refer to the current General Catalog: 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 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 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
9 Units	2 Classes	

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
10 Units	3 Classes	

CONTINUING STUDENTS THIRD SEMESTER (FALL)

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

CONTINUING STUDENTS FOURTH SEMESTER (SPRING)

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

Notes: [L] = Lab only course



Welding Technology

For more information on Certificates, please refer to the current General Catalog: 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 their 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 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
9 Units	2 Classes	

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
8 Units	2 Classes	

CONTINUING STUDENTS THIRD SEMESTER (FALL)

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



Welding Technology

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

FOUR CERTIFICATES OF ACHIEVEMENT ARE AVAILABLE

- **ARC WELDING**
- **GAS TUNGSTEN ARC WELDING**
- **PIPE WELDING**
- **WELDING FABRICATION AND LAYOUT**

ASSOCIATE OF ARTS/SCIENCE DEGREES ARE ALSO AVAILABLE

ARC WELDING CERTIFICATE (19 UNITS)

ASSOCIATE OF ARTS DEGREE IS AVAILABLE

- 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)

ASSOCIATE OF ARTS DEGREE IS AVAILABLE

- 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

PIPE WELDING CERTIFICATE (23 UNITS)

ASSOCIATE OF SCIENCE DEGREE IS AVAILABLE

- 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

WELDING FABRICATION AND LAYOUT CERTIFICATE (19 UNITS)

ASSOCIATE OF SCIENCE DEGREE IS AVAILABLE

- 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

New Students and or 1st Semester Students may only take the following classes

New Students can choose to take any one of these classes by itself or more ambitious students may choose to take two, three, or all four classes simultaneously during their 1st semester

- WELD 160 (1 unit) - Safety and the Welding Environment
- WELD 100 (2.5 units) - Welding Fundamentals
- WELD 120 (5 units) - Beginning Arc Welding
- WELD 130 (5 units) - Gas Tungsten Arc Welding Fundamentals

2nd Semester Students and or Continuing Students may take any of the following classes and/or any classes listed above

- WELD 149 (4 units) - Welding Shop Math
- WELD 153 (2 units) - Pipe Layout
Prerequisite: WELD 120
- WELD 159 (4 units) - Blueprint Reading for the Welding Trades
- WELD 170 (2 units) - Structural Fabrication
Prerequisite: WELD 100 or 120 or 130
- WELD 200 (4 units) - Intermediate Arc Welding
Prerequisite: WELD 120
- WELD 240L (2 units) - Intermediate Gas Tungsten Arc Welding Laboratory
Prerequisite: WELD 130

3rd Semester and or Continuing Advanced Students may take the following classes and or any classes listed above

- WELD 210L (2 units) - Advanced Arc Welding Laboratory
Prerequisite: WELD 200
- WELD 212L (2 units) - Shielded Metal Arc Welding (SMAW) Certification Laboratory
Prerequisite: WELD 210L
- WELD 214L (2 units) - Flux Cored Arc Welding (FCAW) Certification Laboratory
Prerequisite: WELD 210L
- WELD 281L (1 unit) - Shielded Metal Arc Welding (SMAW) Specialty Laboratory
Prerequisite: WELD 120
- WELD 282L (1 unit) - Semiautomatic Welding Process Specialty Laboratory
Prerequisite: WELD 120
- WELD 283L (1 unit) - Gas Tungsten Arc Welding (GTAW) Specialty Laboratory
Prerequisite: WELD 130
- WELD 220 (2 units) - Certification and Licensing for Welders
Prerequisite: WELD 200
- WELD 250L (2 units) - Advanced Gas Tungsten Arc Welding Laboratory
Prerequisite: WELD 240L
- WELD 260L (2 units) - Gas Tungsten Arc Welding (GTAW) Aerospace Certification Laboratory
Prerequisite: WELD 250L
- WELD 252L (2 units) - Pipe Welding Level 1
Prerequisite: WELD 210L
- WELD 254L (2 units) - Pipe Welding Level 2
Prerequisite: WELD 252L
- WELD 256L (2 units) - Pipe Welding Level 3
Prerequisite: WELD 254L
- WELD 258L (2 units) - Pipe Welding Level 4
Prerequisite: WELD 256L

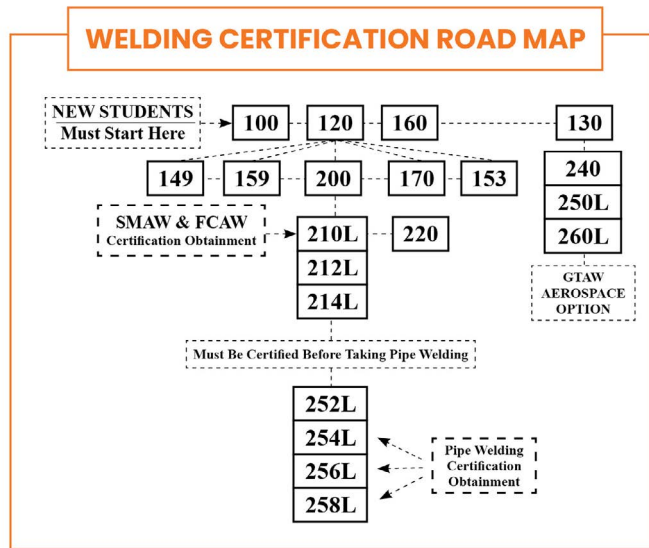
For detailed course descriptions, please refer to the current General Catalog: www.cerritos.edu/catalog

Interested in enrolling at Cerritos College?

Please refer to the step-by-step enrollment process: www.cerritos.edu/futurestudents

Want to apply to get your certificate?

1. Make sure you meet the requirements for the certificate.
 - a. Determine which form to fill out and download the form at: <https://www.cerritos.edu/admissions-and-records/online-forms/>
 - i. Petition for Certificate: Petition to graduate with a Certificate of Achievement
 - ii. Petition for Degree: Petition to graduate with an Associate in Arts
2. Fill out the appropriate form and meet with a counselor.
 - a. Make an appointment by calling (562) 860-2451, ext. 2231 or use Online Counseling at: www.cerritos.edu/counseling/online-orientation.htm



Welding Technology

11110 Alondra Blvd., Norwalk, CA 90650
www.cerritos.edu/welding