

WELDING

ASSOCIATE DEGREE & CERTIFICATE PROGRAMS

2023-2024 CATALOG

DESCRIPTION

The Cuesta College Welding Technology program has a strong history of preparing students for work in industry. Students are afforded the opportunity to obtain Certificates of Specialization, Certificates of Achievement and/or an Associative Science Degree in welding technology. The welding curriculum is well rounded with courses ranging from Basic Welding through Certification, as well as courses in Metallurgy, Blueprint Reading and Welding Power. The shop facility includes twenty multi-process welding stations with current power supply technology. There are a total of six part-time instructors and one full-time instructor. Two instructors are CWI's. Welder qualifications are offered in structural steel and pipe welding to AWS D1.1, ASME Sec IX and API 1104.

ASSOCIATE DEGREE AND CERTIFICATE PROGRAMS

An Associate Degree, depending on the focus of study, is designed to prepare students for transfer into upper division course work in a bachelor's degree program, or, to prepare students to enter the workforce in a particular vocational field. To qualify for an Associate's Degree, a student must: (1) complete each intraspecific course required for the degree with at least a "C" grade or better, (2) complete all Cuesta College general education, graduation and residency requirements, and (3) achieve an overall grade point average of 2.0 for all courses attempted (major, general education, elective).

A Certificate Program is designed for students who desire specific training to meet an immediate occupational or personal goal, or for promotion or lateral transfer within their existing field of employment. To qualify for a Certificate of Achievement or a Certificate of Specialization, a student must 1) complete all courses required for the Certificate with an overall grade point average of 2.0.

A noncredit **Certificate of Completion** means a document confirming that a student has completed a noncredit educational program of noncredit courses that prepares students to progress in a career path or to take degree-applicable credit courses.

DEGREES, CERTIFICATES & AWARDS

- Associate in Science (A.S.)
- Certificate of Achievement (C.A.)
- Certificate of Specialization (C.S.)
- Certificate of Completion (C.C.)

CAREER OPPORTUNITIES

- Assembly Worker
- Auto Body Worker
- Machine Tool Operator
- Sheet Metal Worker
- Structural and Iron Work Welder
- Tool and Die Maker
- Welder

CONTACT

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ASSOCIATE DEGREE PROGRAM

Welding Technology — Associate in Science

The associate of applied science degree in Welding Technology is designed to prepare the individual for a career as a welding technician in the fabrication, construction, and manufacturing industries.

Required Courses (19 credits)

ENGR 226 Engineering Drawing	4
WELD 270A . . . Basic Welding	3
WELD 270B . . . Advanced Welding	3
WELD 270C . . . Welding: GMAW & GTAW	3
WELD 277 Metal Fabrication	3
WELD 280A . . . Structural Steel Welding Certification	3
or WELD 280B Pipe Welding Certification	(3)

Plus 5-6 credits of technical electives from the following:

(Must choose two of the following courses)

WELD 275 Blueprint Reading And Industry Practices	3
WELD 276 Welding Power	3
WELD 273 Metallurgy	3
CTCH 200 Workplace Safety OSHA10	0.5
Total Credits:	25-25.5

[Click Here For Program Student Learning Outcomes](#)

CERTIFICATE PROGRAMS

Welding Technology — Certificate of Achievement

The Welding Technology Certificate of Achievement program is designed for students who are looking for early placement in industry. Specifically, this program focuses on two areas of industry certification; Structural Steel and Pipe Welding. Additionally, students get experience in Print Reading and Project Fabrication. Students completing this course of study are well prepared for a variety of fabrication opportunities locally, statewide as well as nationally.

Required Courses (18-19 credits)

ENGR 226 Engineering Drawing	4
or WELD 275 . . . Blueprint Reading And Industry Practices	(3)
WELD 270A . . . Basic Welding	3
WELD 270B . . . Advanced Welding	3
WELD 277 Metal Fabrication	3
WELD 280A . . . Structural Steel Welding Certification	3
WELD 280B . . . Pipe Welding Certification	3
Total Credits:	18 - 19

[Click Here For Program Student Learning Outcomes](#)

TRANSFER PREPARATION

Courses that fulfill major requirements for an associate degree may differ from those needed to prepare to transfer. Students who plan to transfer to a four-year college or university should schedule an appointment with a Cuesta College counselor to develop a student education plan (SEP) before beginning their program.

TRANSFER RESOURCES:

CSU and UC Articulation Agreements and Majors Search Engine:

www.ASSIST.org

CSU System Information:

www2.calstate.edu

FINANCIAL AID

Paying for the cost of a college education requires a partnership among parents, students and the college. As the cost of higher education continues to rise we want you to know that Cuesta College offers a full array of financial aid programs—grants, work study, scholarships, federal loan programs, and fee waivers. These programs are available to both full-and part-time students who are seeking a degree or certificate. For those who qualify, financial aid is available to help with tuition, fees, books and supplies, food, housing, transportation, and childcare. Please log onto our website for additional information:

www.cuesta.edu/student/student-services/financial-aid

Welding Technology Pipe — Certificate of Specialization

Required Course (3 credits)

WELD 280B . . . Pipe Welding Certification 3

Total Credits: 3

[Click Here For Program Student Learning Outcomes](#)

Welding Technology Structural — Certificate of Specialization

Required Course (3 credits)

WELD 280A . . . Structural Steel Welding Certification. 3

Total Credits: 3

[Click Here For Program Student Learning Outcomes](#)

Noncredit Structural Steel Certification — Certificate of Completion

Students enrolled in these courses have the opportunity to develop entry level skills and knowledge required in the ironworker industry and obtain welder qualifications to the AWS D1.1/1.1M Structural Steel Welding code.

Required Courses (0.0 credits)

WELD 770A . . . Basic Welding 108

WELD 770B . . . Advanced Welding 108

WELD 780A . . . Structural Steel Welding Certification. 108

Total Hours: 324

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