

WELDING, GAS AND ELECTRIC

Pathway: Construction, Maintenance & Utilities
Chair: William (Bill) Elarton, Room SQ/B-122
(213) 763-3700, cdm@lattc.edu



Award Title	Academic Plan	Award Type	GE Units	Required Course Units	Major Elective Units	Major Units
Welding, Gas and Electric*	T002916C	A.S.	21*	44	4	48
Welding, Gas and Electric	T021861D	C		44	4	48

At least 60 degree applicable units are required to earn an Associate degree.

*This Associate Degree is eligible for a reduction of General Education requirements from 21 to 18 units; please consult with a counselor for more details

PROGRAM OVERVIEW

The Associate in Science degree and Certificate of Achievement in Welding Gas and Electric is a full-time program designed for individuals seeking entry level positions in the field. Students enrolling in this program should be able to commit to full-time student status, which is approximately 21 hours per week. This time commitment is necessary to allow for hands-on training with the lab applications used during the course of instruction.

LATTC's welding program is a Certified Welding Test Center. Individuals seeking certification as a welder can take the required certification exams on site.

By fulfilling the program requirements, students will have the necessary skills for all positions that are related to welding on plate. This program prepares the student for fabrication work, construction work, job shops and other entry-to-mid level related jobs.

PROGRAM LEARNING OUTCOMES (PLOs)

Upon completion of the **Degree/Certificate** program, students are able to:

1. Name and select the appropriate hand and power tools in order to set up a portable oxyacetylene welding outfit and a 1" Vee Groove test Plate.
2. Use welding equipment and jigs to set up and weld a Vee Groove in a vertical position using AWS Standards and safety procedures.
3. Apply the proper procedures for calculation and measurements by sketching oblique, isometric and pictorial views to designated sizes.

USEFUL LATTC LINKS:

College Catalog: <http://college.lattc.edu/catalog/>
Financial Aid Office: <http://college.lattc.edu/financialaid/>
Counseling Department: <http://college.lattc.edu/counseling/>
General Education Information: <http://college.lattc.edu/catalog>
Construction, Design, and Manufacturing Pathway: <http://pathways.lattc.edu/catalog-programs/cmu/>

You can register in these classes by logging on to the Student Information System at <http://college.lattc.edu/student/new-students/register-now/>

For additional information consult a LATTC college counselor.

WELDING, GAS AND ELECTRIC

Associate in Science Degree

Major Units: 48

Requirements for the Associate in Science degree in Welding, Gas and Electric may be met by completing 44 units of Required Courses and 4 units of Major Electives with a "C" or better along with General Education units. Information on the General Education unit requirements may be found in the catalog under Graduation Requirements

REQUIRED COURSES

SEMESTER I		UNITS
WELDG/E 111	Acetylene Welding, Cutting and Brazing	5
WELDG/E 112	Welding Related Technical Instructions I	3
WELDG/E 113	Applied Mathematics I	3
ELECTIVE		1

SEMESTER II		UNITS
WELDG/E 121	Electric Welding I	5
WELDG/E 124	Blueprint Reading I	3
WELDG/E 125	Applied Mathematics II	3
ELECTIVE		1

SEMESTER III		UNITS
WELDG/E 131	Electric Welding II	5
WELDG/E 132	Blueprint Reading II	3
WELDG/E 133	Welding Related Technical Instruction III	3
ELECTIVE		1

SEMESTER IV		UNITS
WELDG/E 141	Electric Welding III	5
WELDG/E 142	Inert Gas Welding (TIG and MIG)	3
WELDG/E 143	Welding Related Technical Instruction IV	3
ELECTIVE		1

MAJOR ELECTIVES

Select at least 4 units from the courses below		UNITS
WELDG/E 020	Welding Laboratory - Gas & Electric	1
WELDG/E 030	Welding Laboratory - Electric I	1
WELDG/E 040	Welding Laboratory - Electric II	1
WELDG/E 050	Welding Laboratory - Electric III	1
WELDG/E 100	Metal Sculpture I	3
WELDG/E 101	Flux Cored Arc Welding	3
WELDG/E 200	Metal Sculpture II	3
WELDG/E 210	Metal Sculpting Laboratory	2

WELDING, GAS AND ELECTRIC

Certificate of Achievement

Major Units: 48

A Certificate of Achievement in Welding, Gas and Electric may be earned by completing 44 units of Required Courses and 4 units of Major Electives listed under the Associates degree in Welding, Gas and Electric with a "C" or better in each course.