



Program Map Welding Technology - Structural Welding

Certificate: Level 1 (C1)



DESIGN, MANUFACTURING, CONSTRUCTION & APPLIED TECHNOLOGY

Program Description: This is an example course sequence for students interested in Welding Technology - Structural Welding. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Certificate in Welding Technology - Structural Welding.

This certificate provides training and shop experience in welding and fabricating plate. It prepares the student for immediate, entry-level employment with minimum training. All courses may be applied toward the Associate of Applied Science in Welding Technology with a specialization in Code Welding. This certificate prepares the student to pursue the Pipe Welding Certificate.

Contact:
Troy DeFrates
tdefrate@austincc.edu
512-223-6634

Department Website:
sites.austincc.edu/welding/

Use this Program Map to choose courses with your college advisor and track your progress towards milestones and completion of program.

Pre-Degree Requirements

Program Specific	Reading and Writing Placement <i>Placements based on TSI</i>	Mathematics Placement <i>Placements based on TSI</i>
	Not required.	Not required.

SEMESTER-BY-SEMESTER PROGRAM PLAN FOR FULL-TIME STUDENTS

Plans can be modified to fit the needs of part-time students by adding more semesters

Semester 1	CR	Advising Notes
WLDG 1428 - Introduction to Shielded Metal Arc Welding (SMAW)	4	
WLDG 1430 - Introduction to Gas Metal Arc Welding (GMAW) and Flux Cored Arc Welding (FCAW)	4	
WLDG 1434 - Introduction to Gas Tungsten Arc (GTAW) Welding	4	
	12	Program Semester Hours / Meet with your advisor
Semester 2		
WLDG 1413 - Introduction to Blueprint Reading for Welders	4	
WLDG 1457 - Intermediate Shielded Metal Arc Welding (SMAW)	4	Prerequisite: WLDG 1428.
WLDG 2471 - Structural Connections	4	Capstone course. Student should take WLDG 1413 and WLDG 1457 before or at the same time as WLDG 2471. ACHIEVEMENT: Completion of Level 1 Certificate
	12	Program Semester Hours
Total Program Hours		24

Please always check online at austincc.edu/catalog or meet with your academic or program advisor to ensure that you are viewing the latest and most accurate information.

Career & Transfer Resources

ACC's Career & Transfer websites provide detailed, guided information on career exploration and transfer.

www.austincc.edu/career

www.austincc.edu/transfer

For further information regarding this specific program, please see the Career & Transfer Resources supplement provided in the next section of this Program Map.

Program Map

Welding Technology - Structural Welding

Certificate: Level 1 (C1)

Career & Transfer Resources Updated 8/18/17

Career Information

Common Job Titles

Structural Metal Fabricators and Fitters, Tack Welder, Weld Technician, Welder-Fabricator, Welders, Cutters, and Welder Fitters

Regional Labor Market Information

Welders, Cutters, and Welder Fitters: New workers generally start around \$27,419. Normal pay for Welders, Cutters, and Welder Fitters is \$37,113 per year, while highly experienced workers can earn as much as \$62,128. Over the last year, 33 companies have posted 230 jobs for Welders, Cutters, and Welder Fitters in this region. There are currently 1,970 Welders, Cutters, and Welder Fitters that are employed in Austin-Round Rock, TX.

Source: <https://austincc.emsicc.com/careers/welder-cutter-and-welder-fitter>

Structural Metal Fabricators and Fitters: New workers generally start around \$28,664. Normal pay for Structural Metal Fabricators and Fitters is \$35,939 per year, while highly experienced workers can earn as much as \$49,631 in this region. There are currently 281 Structural Metal Fabricators and Fitters that are employed in Austin-Round Rock, TX.

Source: <https://austincc.emsicc.com/careers/structural-metal-fabricator-and-fitter>

Career and labor market research tools (see Quick Reference Guide at <http://www.austincc.edu/career>):

EMSI: <https://austincc.emsicc.com/>, Bureau of Labor Statistics: <http://www.bls.gov/ooh/>, O*NET: <https://www.onetonline.org/>

Career Resources: ACC's career services website provides information on career exploration and employment at <http://www.austincc.edu/career>. Students are encouraged to consult with their area of study advisor for additional career assistance. The above information is provided as a guide and reference tool for occupations related to this program. This is not a guarantee of job placement in any of these occupations after successful completion of an ACC program. The common job titles listed are representative titles and are provided for career research. These are not the only occupations possible in this area of study.

Transfer Information

The Level 1 Certificate in Structural Welding prepares students to directly enter the workforce. . All courses in this plan may be applied toward the Associate of Applied Science in Welding Technology with a specialization in Code Welding. A Bachelor of Applied Arts and Sciences (BAAS) is a degree option for students in AAS programs who want to transfer and complete a 4-year degree.

Transfer Guides: *The universities listed here do not constitute an ACC endorsement. Transfer course evaluations and determination of what courses will count toward a bachelor's degree are made by the receiving transfer institution.*

The University of Texas at Tyler: <http://www.uttyler.edu/academics/undergraduate-majors/industrial-technology-degree.php>

Tarleton State University: <http://www.tarleton.edu/degrees/bachelors/baas-manufacturing-industrial-management/index.html>

Texas State University: <http://www.owls.txstate.edu/undergraduate-degrees/applied-arts-sciences.html>

Concordia University Texas: <http://www.concordia.edu/academics/college-of-business-and-communication/baas-in-business.html>

Texas A&M University Central Texas: <https://www.tamuct.edu/degrees/undergraduate/business-management.html>

Texas Tech University: https://www.depts.ttu.edu/universitystudies/prospective_students/baas.php

Additional Transfer Resources: ACC's transfer website provides information on additional colleges & universities:

<http://www.austincc.edu/transferguides>. Students are encouraged to consult with a faculty advisor, area of study advisor, and/or their chosen transfer institution to ensure courses taken at ACC will apply toward their bachelor's degree program.