



CROWDER COLLEGE

www.crowder.edu

PIPE | PLATE | FABRICATION WELDING CERTIFICATE

This new premier welding program takes a student from beginning to highly employable in less than one year. Students will learn the most current welding information from highly qualified instructors. All instructors are AWS certified with many years of experience in industry. The program will have planned industry field trips, welding competitions at the state and local level, and Career Fairs. **A student will be able to complete this program in two semesters, be employable upon passing certifications and will pay a fraction of what private institutions will charge. This is an 8 month program using the American Welding Society (AWS) standards.**

The welding courses will provide students an introduction to the basic operation of Shielded Metal Arc Welding (SMAW), Gas Metal Arc Welding (GMAW), Gas Tungsten Arc Welding (GTAW), Flux Core Welding (FCW), Oxy-Fuel Cutting (OFC) and blueprint reading, and Plasma Arc Cutting. This program will provide the theory and skills necessary to make certified welds according to the AWS, American Society of Mechanical Engineers (ASME), or American Petroleum Institute (API) codes. Students will be trained in various advanced welding applications for pipe welding, which include SMAW, GTAW, and GMAW. The program will also teach the students technical understanding of machine control and cutting welding operations. Students will amass over 600 lab hours.

POTENTIAL CAREER PATHS

Pipe Welders
Structural Welders
Production Welders
Custom Welding Shops
Shipyards

CONTACT INFORMATION

Melissa Smith | Director Joplin ATTC
417.455.5627
MelissaSmith@Crowder.edu

Curtis Daniels | CTE Division Chair
417.455.5448
CurtisDaniels@Crowder.edu

| Welding Instructor
[@Crowder.edu](https://www.crowder.edu)

LOCATIONS

CROWDER COLLEGE CAMPUS
601 Laclede Ave, Neosho MO
JOPLIN ATTC
420 S. Grand Ave, Joplin, MO



HOW TO BECOME A CROWDER COLLEGE ROUGH RIDER

- Complete your Application for Admissions online: crowder.edu, click “Apply Now”
- Submit ACT or placement test scores. If you do not have ACT scores or would like to try to improve your score you may schedule placement testing at any of our locations.
- Have transcripts sent to Crowder. Include high school, HiSET/GED, and any previous college transcripts sent to: Crowder College Records Office.
- Make sure payment arrangements are in place by the first Friday of the semester: cash, payment plan, or financial aid. Ensure financial aid is complete. A+ and CAMP students must complete FAFSA
- Contact an adviser at a location convenient to you to enroll.

TWO SEMESTER CERTIFICATE - JOPLIN ATTC ONLY PIPE, PLATE, AND FABRICATION WELDING

SEMESTER 1 (21 CREDIT HOURS TAKEN MTWRF)

WELD 151 - Theory I	2
WELD 117 Blue Print	2
WELD 152 - Theory II	2
WELD 135 - Metallurgy	2
WELD 153 - Lab I	5
WELD 154 - Lab II	5
DRFT 101 - Intro to Engineer/Drawing	3

SEMESTER 2 (25 CREDIT HOURS TAKEN MTWRF)

WELD 201 - Theory III	2
WELD 202 - Theory IV	2
WELD 124 - Fabrication I	2
WELD 140 - Fabrication II	2
WELD 211 - Lab III	7
WELD 213 - Lab IV (Fabrication)	4
WELD 216 - Lab IV (Pipe/Plate)	4
CNS 105/106 - Tech Career Development	2

TOTAL PROGRAM HOURS 46

For current catalog, visit www.Crowder.edu/Course-Catalogs. This Suggested Plan of Study is based on course offerings at the Neosho campus and online. Adjustments in scheduling may need to be made based on other campus course offerings. This is just one possible plan. The length of time to complete the program may vary for each student. In addition, based on placement results, individuals may need to take additional courses for academic remediation.