

East Central College

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Four Rivers Career Center

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East Central College is accredited by the Higher Learning Commission and a participant in the Academic Quality Improvement Program (AQIP)

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THE CAREER

Welding is the most common way of permanently joining metal parts. In this process, heat is applied to metal pieces, melting and fusing them to form a permanent bond.

Because of its strength, welding is used in shipbuilding, automobile manufacturing and repair, aerospace applications and thousands of other manufacturing activities. Welding is also used to join beams when constructing buildings, bridges and other structures, and to join pipes in pipelines, power plants and refineries.

PROFESSIONAL TRAITS

Those pursuing a career in this field should:

- Have good eyesight, hand-eye coordination, and manual dexterity
- Be able to concentrate on detailed work for long periods of time
- Have the ability to bend, stoop and work in awkward positions

EMPLOYMENT & SALARY INFORMATION

The welding profession is experiencing about average growth, per the U.S. Bureau of Labor Statistics. By 2022, the number of positions is expected to increase by six percent.

Median annual earnings for welders were \$36,300 in May 2012. Their salaries ranged from less than \$24,720 (lowest 10 percent) to over \$56,130 (top 10 percent). The difference in earnings reflects the wide span of skill levels in this profession.

These industries employed the highest number of welders in 2012:

- Manufacturing
- Construction
- Wholesale Trade
- Repair and Maintenance

THE PROGRAM

East Central College's welding program offers innovative instruction and individualized guidance for both the beginner and professional welder. It is held at the ECC Washington site in partnership with Four Rivers Career Center.

An enhanced learning environment is generated by mixing classroom instruction with the latest technical welding processes in the lab. This program prepares students to enter the workforce as welding technicians. Those currently in high school can choose to articulate coursework to the AAS degree program and continue with the general education block of coursework at ECC.

Assuming appropriate placement scores, full-time students can expect to complete the certificate of achievement in 24 months and certificate of specialization in 12 months.

ADMISSIONS REQUIREMENTS

Students must have completed:

- ✓ High school diploma or the equivalent (documentation sent to the registration office)
- ✓ Application for admission
- ✓ A placement test as specified by the college (some courses require minimum placement results)

TRANSFER OPTIONS

The AAS degree is designed for students seeking employment immediately upon graduation. However, many of the credits, particularly the general education electives received with this degree, may qualify as transfer credit at four-year schools.

These decisions are made solely by the bachelor degree-granting institution, not East Central. Students seeking to transfer are advised to contact the institution of their choice before beginning a program or reviewing other degrees and coursework offered through ECC.

PROGRAM OF STUDY

AAS Program: 62-63 credit hours

This program of study is for a full-time student; part-time study is also available. Please contact an academic advisor for full course options. All academic schedules are subject to change. For the most current schedule, or to view the Certificate of Achievement (CA) or Certificate of Specialization (CS), visit www.eastcentral.edu.

YEAR 1

FALL SEMESTER

COURSE	HOURS
FS 1000 Campus Orientation/ FS 1001 Foundation Seminar	1
EN 1223 English Comp I or EN 1233 Honors English Comp I	3
WL 1011 Welding I Lecture/ WL 1014 Welding I Lab CA,CS	5
WL 1021 Welding II Lecture/ WL 1024 Welding II Lab CA,CS	5
MA 1013 Print Reading and Design	3
Total Hours	17

SPRING SEMESTER

COURSE	HOURS
WL 1031 Welding III Lecture/ WL 1034 Welding III Lab CA,CS	5
WL 1041 Welding IV Lecture/ WL 1044 Welding IV Lab CA,CS	5
EN 1403 Technical Writing	3
Ethics and Social Responsibility Elective	3
Total Hours	16

YEAR 2

FALL SEMESTER

COURSE	HOURS
WL 2011 Welding V Lecture/ WL 2014 Welding V Lab CA	5
WL 1053 Welding VI (Blueprint Reading) CA	3
MT 1083 Applied Algebra and Trigonometry or MT 1303 Intermediate Algebra	3
HI 1000/ PS 1000 Constitutions Study Module	0
History or Political Science Requirement	3
Science Requirement	3
Total Hours	17

SPRING SEMESTER

COURSE	HOURS
WL 2021 Welding VII Lecture/ WL 2024 Welding VII Lab CA	5
WL 2031 Welding VIII CA	1
BU 2881 Business and Industry Capstone CA,CS	1
Program Elective	3
Program Elective	2-3
Total Hours	12-13