



Catalog Year Fall 2015

### **East Central College**

1964 Prairie Dell Road  
Union, Missouri 63084  
636-584-6500  
www.eastcentral.edu

### **Admissions Office**

ECC Campus  
636-584-6563  
admissions@eastcentral.edu

### **Program Contact**

Student Services Call Center  
636-584-6563  
admissions@eastcentral.edu

### **Program Location**

Four Rivers Career Center  
1978 Image Drive  
Washington, Missouri 63090  
636-239-0598

### **Program Faculty**

Chester Livell  
636-239-0598  
Chester.Livell@  
washington.k12.mo.us

East Central College is  
accredited by the Higher  
Learning Commission of the  
North Central Association of  
Colleges and Schools  
30 N. LaSalle St., Suite 2400  
Chicago, Illinois 60602-2504  
800-621-7440

# EAST CENTRAL COLLEGE WELDING

## CERTIFICATE OF ACHIEVEMENT - CERTIFICATE OF SPECIALIZATION

### 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 AND 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 must be sent to the registration office)
- ✓ Application for admission
- ✓ A placement test as specified by the college (please note: some coursework requires minimum placement results)

### ADDITIONAL PROGRAM INFORMATION

#### STANDARD OCCUPATIONAL CLASSIFICATION (SOC)

51-4122.00, 51-4121.06

#### JOB PLACEMENT RATE

Achievement: 100 percent

#### TUITION AND REQUIRED FEES

Achievement: \$3,325 (In-District);  
\$4,550 (Out-of-District)  
Specialization: \$1,995 (In-District);  
\$2,730 (Out-of-District)

#### BOOKS AND SUPPLIES

\$289.40

#### OTHER FEES AND EXPENSES

Achievement: \$140; Specialization \$80

■ **ROLLA**  
573-466-4100

■ **SULLIVAN**  
573-468-8287

■ **UNION**  
636-584-6588

■ **WASHINGTON**  
636-239-0598

WWW.EASTCENTRAL.EDU

## CERTIFICATION

### CERTIFICATE OF ACHIEVEMENT COURSEWORK

COURSE	HOURS
WL 1011 Welding I Lecture and WL 1014 Welding I Lab	5
WL 1021 Welding II Lecture and WL 1024 Welding II Lab	5
WL 1031 Welding III Lecture and WL 1034 Welding III Lab	5
WL 1041 Welding IV Lecture and WL 1044 Welding IV Lab	5
WL 2011 Welding V Lecture and WL 2014 Welding V Lab	5
WL 1053 Welding VI (Blueprint Reading)	3
WL 2021 Welding VII Lecture and WL 2024 Welding VII Lab	5
WL 2031 Welding VIII	1
BU 2881 Business & Industry Capstone	1

**Total Credit Hours 35**

TO CONVERT A CERTIFICATE OF ACHIEVEMENT INTO AN AAS DEGREE, STUDENTS ALSO NEED TO TAKE THE FOLLOWING:

COURSE	HOURS
FS 1000 Campus Orientation/ FS 1001 Foundation Seminar	1
MA 1013 Print Reading & Design	3
EN 1223 English Comp I or EN 1233 Honors English Comp I	3
EN 1333 English Comp II, EN 1343 Honors English Comp II or EN 1403 Technical Writing	3
Humanities Requirement	3
MT 1083 Applied Algebra & Trigonometry or MT 1303 Intermediate Algebra	3
HI 1000/ PS 1000 Constitutions Study Module	0
History or Political Science Requirement	3
Science Requirement	3
PE Requirement	1
Program Elective	3
Program Elective	3

**Total Credit Hours 29**

### CERTIFICATE OF SPECIALIZATION COURSEWORK

COURSE	HOURS
WL 1011 Welding I Lecture and WL 1014 Welding I Lab	5
WL 1021 Welding II Lecture and WL 1024 Welding II Lab	5
WL 1031 Welding III Lecture and WL 1034 Welding III Lab	5
WL 1041 Welding IV Lecture and WL 1044 Welding IV Lab	5
BU 2881 Business & Industry Capstone	1

**Total Credit Hours 21**

TO CONVERT A CERTIFICATE OF SPECIALIZATION INTO AN AAS DEGREE, STUDENTS ALSO NEED TO TAKE THE FOLLOWING:

COURSE	HOURS
FS 1000 Campus Orientation/ FS 1001 Foundation Seminar	1
MA 1013 Print Reading & Design	3
EN 1223 English Comp I or EN 1233 Honors English Comp I	3
EN 1333 English Comp II, EN 1343 Honors English Comp II or EN 1403 Technical Writing	3
Humanities Requirement	3
WL 2011 Welding V <sup>A</sup> Lecture and WL 2014 Welding V Lab <sup>A</sup>	5
WL 1053 Welding VI <sup>A</sup> (Blueprint Reading)	3
MT 1083 Applied Algebra & Trigonometry or MT 1303 Intermediate Algebra	3
HI 1000/ PS 1000 Constitutions Study Module	0
History or Political Science Requirement	3
Science Requirement	3
WL 2021 Welding VII Lecture <sup>A</sup> and WL 2024 Welding VII Lab <sup>A</sup>	5
WL 2031 Welding VIII <sup>A</sup>	1
PE Requirement	1
Program Elective	3
Program Elective	3

**Total Credit Hours 43**