



**East Central College**  
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**Four Rivers Career Center/ ECC Washington**  
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**Division**  
Career and Technical Programs  
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Four Rivers Career Center programs/courses are approved by the Missouri Department of Elementary and Secondary Education and meet the criteria of North Central Accreditation. The career education guidelines of the Missouri School Improvement Program have also been met by all programs offered at FRCC.

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

# WELDING

## ASSOCIATE OF APPLIED SCIENCE DEGREE & CERTIFICATE

### OFFERED THROUGH EAST CENTRAL COLLEGE

#### THE PROGRAM

The Welding program is a two-year program that trains students in various types of welds in all positions, including plate and pipe. Blueprint reading, layout and fit-up are integral parts of the curriculum. The program provides a mix of classroom instruction along with hands-on lab work.

Students are taught personal development, work attitude and leadership skills as a part of the program and their membership in SkillsUSA, the national career and technical student organization.

#### PROFESSIONAL TRAITS

- Good eyesight, hand-eye coordination, and manual dexterity.
- Able to concentrate on detailed work for long periods of time.
- Able to bend, stoop, and work in awkward positions.



#### START WORKING ON YOUR COLLEGE CAREER WHILE IN HIGH SCHOOL

##### HOW IT WORKS

- ✓ Students can earn both high school and college credit. Students must earn a B or better to receive college credit.
- ✓ Save money on tuition: Enrollment is available at a discounted rate for high school students. Students must enroll with ECC during the enrollment period each semester.
- ✓ Enter the job market sooner with a skill set required by employers
- ✓ Earn industry credentials valued by employers
- ✓ Earn recognition by participating in local, state and national competitions

#### 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 also is used to join beams when constructing buildings, bridges, and other structures and to join pipes in pipelines, power plants, and refineries.

#### FOUR RIVERS SENDING SCHOOLS

UNION  
ST. CLAIR

WRIGHT CITY  
WASHINGTON

HERMANN  
SAINT FRANCIS BORGIA

PACIFIC  
SULLIVAN

NEW HAVEN  
WARRENTON

### PROGRAM OF STUDY

A- Course that is also part of the Certificate of Achievement program at East Central College

#### YEAR 1

##### FALL SEMESTER AT FRCC

COURSE	HOURS
WL 1011 Welding I Lec-Intro <sup>A</sup>	1
WL 1014 Welding I Lab-Intro <sup>A</sup>	4
WL 1021 Welding II Lec- All Positions SMAW <sup>A</sup>	1
WL 1024 Welding II Lab-All Positions SMAW <sup>A</sup>	4
<b>Total Hours</b>	<b>10</b>

##### SPRING SEMESTER AT FRCC

COURSE	HOURS
WL 1031 Welding III Lec-Advanced SMAW <sup>A</sup>	1
WL 1033 Welding III Lab-Advanced SMAW <sup>A</sup>	4
WL 1041 Welding IV Lec-GMAW <sup>A</sup>	1
WL 1044 Welding IV Lab-GMAW <sup>A</sup>	4
<b>Total Hours</b>	<b>10</b>

#### YEAR 2

##### FALL SEMESTER AT FRCC

COURSE	HOURS
WL 2011 Welding V Lec-GTAW <sup>A</sup>	1
WL 2014 Welding V Lab-GTAW <sup>A</sup>	4
WL 1053 Welding VI-Blueprint Reading <sup>A</sup>	3
<b>Total Hours</b>	<b>8</b>

##### SPRING SEMESTER AT FRCC

COURSE	HOURS
WL 2021 Welding VII Lec-Pipe Welding <sup>A</sup>	1
WL 2024 Welding VII Lab-Pipe Welding <sup>A</sup>	4
WL 2031 Welding VIII-Adv. Grad Projects <sup>A</sup>	1
<b>Total Hours</b>	<b>6</b>

#### YEAR 3 (At ECC)

##### FALL SEMESTER

COURSE	HOURS
FS 1000 Campus Orientation/	
FS 1001 Foundation Seminar	1
EN 1223 English Comp I or	
EN 1233 English Comp I (Honors)	3
HI 1000/	
PS 1000 Constitutions Study Module	0
History or Political Science	
Requirement	3
Mathematics Requirement	3
Physical Education Requirement	1
Program Elective	3
Program Elective	3
<b>Total Hours</b>	<b>17</b>

##### SPRING SEMESTER

COURSE	HOURS
EN 1403 Technical Writing	3
Science Requirement	3
ED 2991 Career Management <sup>A</sup>	1
Communications Requirement	3
Program Elective	3
Program Elective	3
<b>Total Hours</b>	<b>16</b>