

# Welding Technology

## CERTIFICATE (ONE YEAR)

**Major code:** 3130  
**Department:** Welding  
**Chair:** Bernhard Weldon  
**Advising:** Drew Pearson 541-881-5973

### PROGRAM OVERVIEW

Students successfully completing the certificate program are prepared to enter or advance in the welding field. Students may also choose individual certifications in MIG, TIG, Arc, and Pipe Welding.

All courses in this certificate may be applied to the Welding Technology Associate of Applied Science degree. A minimum grade point average of 2.0 is required to obtain the certificate.

### PROGRAM/DISCIPLINE OUTCOMES

Students who complete the Welding Certificate will be prepared to:

- Demonstrate proper set up of welding machines for appropriate welding processes.
- Demonstrate appropriate shop safety procedures and equipment.
- Demonstrate proper welding techniques for all positions in FCAW; SMAW; GTAW, and GMAW processes.

### DUAL CREDIT (2+2)

Students will receive credit for Welding classes taken in high school as equivalent to college classes provided that the high school classes are listed on a signed articulated on agreement between the specific high school and the college. Credit will be transcribed as equivalent to a parallel community college course.

### RELATED EDUCATIONAL REQUIREMENTS (12 CREDITS)

All career and technical education degrees and one-year certificates contain required courses in applied communication, computation and human relations. These courses are designed to support student competence and success in the workplace. Students must have appropriate test scores in writing and math to enter the related courses listed. Students who test below the required level will be required to take preparatory courses. A college advisor will assist students with selecting the appropriate preparatory course or courses.

COURSE #	COURSE TITLE	CREDITS
- PSYC 101 - PSYCHOLOGY OF HUMAN RELATIONS or BA 204 - TEAMWORK DYNAMICS.....		3
- INED 156 - EMPLOYMENT STRATEGIES.....		1
- MATH 063 TECHNICAL MATH I.....		4
- WR 115 INTRO TO COLLEGE WRITING.....		4

### REQUIRED COURSES (40 CREDITS)

Courses are listed in suggested sequence.

### YEAR 1

COURSE #	COURSE TITLE	CREDITS
- AG 207	AGRICULTURE SEMINAR.....	1
- INED 212	INDUSTRIAL SAFETY & MANAGEMENT.....	3
- WELD 102	PIPE WELDING.....	3
- WELD 103	SHIELDED METAL ARC WELDING II.....	5
- WELD 104	GAS METAL ARC WELDING.....	3
- WELD 106	FLUX CORED ARC WELDING.....	3
- WELD 120	WELDING SYMBOLS & PRINT READING...	3
- WELD 150	BASIC WELDING I.....	5
- WELD 160	BASIC WELDING II.....	5
- WELD 190	WELDING CODES, PROCEDURE & INSPECTI.....	5
- WELD 296	WELDING FABRICATIONS PRACTICES.....	4
<b>Total number of credits.....</b>		<b>52</b>