

Clackamas Community College

Online Course/Outline Submission System

 Show changes since last approval in red**Section #1 General Course Information****Department:** Welding**Submitter**First Name: **John**Last Name: **Phelps**Phone: **6378**Email: **johnp**

Course Prefix and Number: WLD - 102

Credits: 2**Contact hours**

Lecture (# of hours):

Lec/lab (# of hours): 44

Lab (# of hours):

Total course hours: 44

For each credit, the student will be expected to spend, on average, 3 hours per week in combination of in-class and out-of-class activity.

Course Title: Introduction to Welding**Course Description:**

Designed for the beginner and experimental welder. Includes: oxy-acetylene, stick, wire feed and TIG welding, oxy-acetylene and plasma arc cutting.

Type of Course: Career Technical Preparatory

Is this class challengeable?

Yes

Can this course be repeated for credit in a degree?

No

Is general education certification being sought at this time?

No

Does this course map to any general education outcome(s)?

No

Is this course part of an AAS or related certificate of completion?

Yes

Name of degree(s) and/or certificate(s): Welding AAS

Are there prerequisites to this course?

No

Are there corequisites to this course?

No

Are there any requirements or recommendations for students taken this course?

No

Are there similar courses existing in other programs or disciplines at CCC?

No

Will this class use library resources?

Yes

Have you talked with a librarian regarding that impact?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F or Pass/No Pass

Audit: Yes

When do you plan to offer this course?

- ✓ Fall
- ✓ Winter

✓ Spring

Is this course equivalent to another?

If yes, they must have the same description and outcomes.

No

Will this course appear in the college catalog?

Yes

Will this course appear in the schedule?

Yes

Student Learning Outcomes:

Upon successful completion of this course, students should be able to:

1. identify and demonstrate basic welding, cutting techniques and safety shop practices;
2. demonstrate knowledge of shop safety and policies by passing a safety test,
3. read assignments and participate in class discussions,
4. pass quizzes and exams,
5. maintain regular attendance,
6. work for the full class period,
7. practice safe work habits,
8. clean up the work area at the end of every class,
9. work independently without continuous instructor assistance.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Welding Safety and Safety Test.
2. Introduction to Joining and Cutting Metals.
3. Oxy-fuel Welding (OFW) Processes.
4. Gas Metal Arc Welding (GMAW) and Flux-cored Arc Welding (FCAW).
5. Shielded Metal Arc Welding (SMAW).
6. Cutting and Gouging Metals.
7. Gas Tungsten Arc Welding (GTAW).
8. Hand-outs for project goals.
9. Soldering, Brazing and Braze Welding.
10. Plasma Arc cutting.
11. Students may choose an area to specialize in for the remainder of the class at this time.

Does the content of this class relate to job skills in any of the following areas:

- | | |
|--------------------------------------|-----------|
| 1. Increased energy efficiency | No |
| 2. Produce renewable energy | No |
| 3. Prevent environmental degradation | No |
| 4. Clean up natural environment | No |
| 5. Supports green services | No |

Percent of course: 0%

First term to be offered:

Next available term after approval

:
