

Clackamas Community College
Online Course/Outline Submission System

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Section #1 General Course Information

Department: Welding

Submitter

First Name: **Dustin**

Last Name: **Bates**

Phone: **3173**

Email: **dustinb**

Course Prefix and Number: WLD - 252

Credits: 4

Contact hours

Lecture (# of hours):

Lec/lab (# of hours): 88

Lab (# of hours):

Total course hours: 88

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: Welding Fabrication III Advanced Project

Course Description:

This course consists of lecture and lab. Students will use the skills learned in Fabrication I and II, such as blueprint reading, layout, sketching, bills of materials, job cost calculations, measuring, fitting, cutting and welding, and apply them to advanced projects. Students will be assigned advanced fabrication projects. The student will be responsible for all aspects of managing the project to successful completion.

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?

Yes

Pre-reqs: Pass WLD-251

Have you consulted with the appropriate chair if the pre-req is in another program?

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?

✓ **Not every term**

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. recognize and know how to prevent safety hazards in the shop,
2. identify what type of personal protective equipment is needed for a job,
3. interpret and draw blueprint welding symbols,
4. appraise materials,
5. estimate the cost of a job,
6. choose the appropriate welding process for a job,
7. evaluate the best joint designs for a job,
8. apply layout techniques,
9. measure and cut accurately,
10. fabricate advanced projects while staying within tolerances.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Defining the project.
2. Materials.
3. Equipment and processes.
4. Execute the project.
5. Blueprinting.
6. Prototype costing.
7. Production run costing.
8. Completing the project.

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 | Yes |
| 4. Clean up natural environment | No |

5. Supports green services **No**

Percent of course: 5%

First term to be offered:

Next available term after approval

:
