

Clackamas Community College
Online Course/Outline Submission System

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Section #1 General Course Information**Department:** Welding**Submitter**

First Name: **Dustin**
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Course Prefix and Number: WLD - 200

Credits: 3**Contact hours**

Lecture (# of hours): 33
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 33

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: Welder's Print Reading II**Course Description:**

Provides instruction in reading and interpretation of prints and symbols common in welding industry. Participants will learn interpretation and application of blueprint views. Includes basic layout techniques and math review. American Welding Society symbols, International Standards Organization symbols, pipe welding symbols, and inspection symbols are covered.

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?

Yes

Recommendations: Completion of WLD-100

Requirements: None

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. use drafting concepts and sketching techniques,
2. recognize pipe welding symbols and their application,
3. review metrics and dual dimensioning in fabricating a weldment,
4. compare inspection symbols with testing procedures,
5. interpret international standard symbols (ISO) for welding,
6. differentiate first-angle and third orthographic projection drawings,
7. recognize basic geometric dimensioning and tolerancing symbols,
8. produce and apply drawings used for fabrication in a lab environment.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Fillet welds, groove welds, back or backing and melt-thru welds.
2. Plug and slot welds, surfacing welds.
3. Edge welds, spot welds.
4. Projection welds, seam welds, stud welds.
5. Applied metrics for welders.
6. Pipe -welding symbols.
7. Inspection and testing.
8. International standard symbols for welding.
9. Geometric dimensioning and tolerancing.

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

:
