

Clackamas Community College

Online Course/Outline Submission System

 Show changes since last approval in red

Print

Edit

Delete

Back

WLD-100 Welder's Print Reading I

General education certified: Yes **No**

- Writing
 Oral Communication
 Arts and Letters
 Science & Computer Science
 Mathematics
 Social Science
 Cultural Literacy
 Health & Physical Education

 Approved Date (mm/dd/yyyy): / /

Submit

Section #1 General Course Information**Department:** Welding**Submitter**First Name: **Dustin**Last Name: **Bates**Phone: **3973**Email: **dustinb****Course Prefix and Number:** WLD - 100**# 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 I

Course Description:

Provides instruction in reading and interpretation of prints and symbols common in the welding industry. Participants will learn the interpretation and application of basic lines, dimensions, structural shapes, and specifications. Welding symbols and their application to different types of joint configurations will be covered, as well as how to develop basic shop drawings and prints.

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**

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. evaluate the purpose and make-up of prints and how they relate to the welder,
2. review drafting concepts and sketching techniques,
3. recognize metal structural shapes commonly used by welders,
4. interpret advanced drafting techniques including auxiliary views, detail views, projections, sections and detail, and assembly drawings;
5. distinguish the meaning of welding symbols and the importance of their correct interpretation,
6. identify basic joints for weldment fabrication,
7. recognize and interpret first-angle and third orthographic projection drawings.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Basic lines and views, sketching, notes and specifications.
2. Dimensions, bill of materials.
3. Structural shapes, other views.

4. Sections, detail, assembly, and subassembly prints.
5. Welding symbols and abbreviations.
6. Basic joints for weldment fabrication.
7. Fillet welds, groove welds, back or backing and melt-thru welds.
8. Plug and slot welds, surfacing welds, edge welds.
9. Spot welds, projection welds.
10. Seam welds, stud welds.

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

:
