

Clackamas Community College
Online Course/Outline Submission System

Consent Agenda Requests

Section #1 General Course Information

Department: Manufacturing

Submitter

First Name: Mike

Last Name: Mattson

Phone: 3322

Email: mattsonm

Course Prefix and Number: MFG - 104A

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: Print Reading for Industry

Course Description:

This course is an introduction to basic print reading. Students will use the principles of orthographic projection and current American Society of Mechanical Engineers (ASME) standards as they apply this knowledge to interpreting manufacturing prints.

Type of Course: Career Technical Preparatory

Reason for the new course:

Industry partners often want a more in-depth course and want students to use client specific blueprints as part of the course and the learning.

Is this class challengeable?

No

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?

No

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?

Yes

Have you talked with the appropriate chair?

Yes (A 'Yes' certifies you have talked with the chair and have received approval.)*

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?

No

Will this course appear in the schedule?

No

Student Learning Outcomes:

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

1. visualize a 3D part from an orthographic representation;
2. identify notes and revision information;
3. extract dimensional information and finish information;
4. converse using basic print reading terminology of the industry;
5. discuss the represented parts or assembly;
6. demonstrate the care and handling of prints;
7. evaluate company prints regarding: detail, assembly, schematic, fabrication and casting.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. What is a print
2. The alphabet of lines
3. Multi view drawings
4. Auxiliary views
5. Section views
6. Threads and fasteners
7. Dimensioning
8. Tolerancing
9. Machining specifications
10. Surface quality
11. Introduction to Geometric Dimensioning and Tolerances (GD&T) symbols
12. Detail drawings
13. Pictorial drawings
14. Title blocks
15. List of materials
16. Drawing notes
17. Revisions
18. Welding prints
19. Sheet metal prints
20. Company specific prints

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

:
