Clackamas Community College

Online Course/Outline Submission System

Section #1 General Course Information

Department: Manufacturing

Submitter

First Name: Dan
Last Name: Tuggle
Phone: 3876
Email: dant

Course Prefix and Number: MFG - 131

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: Basic Electricity II

Course Description:

Covers application of several theories learned in previous term. Additional topics will include: motors, controls, alignment, pulleys and gears, troubleshooting theory, power distribution and lighting, electrical wiring and schematics.

Type of Course: Career Technical Preparatory

Is this class challengeable?

Yes

Can this course be repeated for credit in a degree?

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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): Manufacturing Programs
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 MFG-130 and MTH-050
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

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Audit: Yes

When do you plan to offer this course?

√ 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. demonstrate the application of industrial motors and motor controls,
- 2. diagram elementary electrical schematics,
- 3. illustrate the electro-mechanical components of power transmission,
- 4. apply troubleshooting theory to solve ordinary industrial problems.

This course does not include assessable General Education outcomes.

Major Topic Outline:

- 1. Electric motors.
- 2. Motor controls.
- 3. Power transmission.
- 4. Schematics.
- 5. Trouble shooting.
- Lighting.

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

Increased energy efficiency
 Produce renewable energy
 Prevent environmental degradation
 Clean up natural environment
 Supports green services

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Percent of course: 0%

First term to be offered:

Next available term after approval

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