

Clackamas Community College
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Section #1 General Course Information

Department: Manufacturing

Submitter

First Name: **Jim**

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Course Prefix and Number: EET - 112

Credits: 3

Contact hours

Lecture (# of hours):

Lec/lab (# of hours): 66

Lab (# of hours):

Total course hours: 66

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: Electronic Test Equipment & Soldering

Course Description:

Provides a basic understanding of operation, accuracy and set-up of general electronic test equipment. Students will set-up, operate, and make measurements using meters, function generator, digital storage oscilloscope and logic analyzer and solder to IPC 610A standards.

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): Electronics Engineering Technology 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?

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

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 safe and proper equipment operation,
2. use and understand vocabulary specific to the equipment,
3. identify and understand equipment capabilities and limits,
4. demonstrate an ability to measure various circuit parameters and state the meaning of the measurements,
5. demonstrate an ability to set-up and calibrate an oscilloscope test probe,
6. use a function generator with an oscilloscope to measure circuit bandwidth,
7. demonstrate an ability to set up an actual circuit test bench using a variable power supply, oscilloscope, function generator and multi-meter.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Electronic circuit measurements.
2. Digital storage oscilloscope.
3. Function generator.
4. Digital multi-meters and analog ohmmeters.
5. Bench top power supply.
6. Soldering.

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

:

