

Clackamas Community College

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

First Name: Shelly

Last Name: Tracy

Phone: 9045

Email: shellyt

Course Prefix and Number:APR - 135IE**# Credits:**3**Contact hours**

Lecture (# of hours): 36

Lec/lab (# of hours):

Lab (# of hours):

Total course hours: 36

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:Residential Wiring II**Course Description:**

Focuses on the fundamentals of electrical installation in residential based on the national electrical code (NEC) and Oregon specialty code (OESC).

Type of Course:Career Technical Apprenticeship

Can this course be repeated for credit in a degree?

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):Electrician Apprenticeship Technologies AAS and CC

Are there prerequisites to this course?

Yes

Pre-reqs:APR-134IE

Have you consulted with the appropriate chair if the pre-req is in another program?

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?

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 Only

Audit:No

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. identify different lighting options,
2. estimate the load of a branch circuit,
3. Identify the proper number of receptacles per branch circuit,
4. describe ceiling fan requirement,
5. define the requirement for bathroom, halls, porches;
6. estimate the load requirements for kitchen appliances,
7. demonstrate the ability to differentiate between hard wired versus cord connected,
8. explain laundry requirements,
9. explain HVAC, AC units,
10. identify different low voltage systems,
11. identify the different aspects of pool wiring.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. How to layout and wire lighting.
2. How to size circuits based on load.
3. Understand the requirements for kitchen appliances.
4. Understand the requirements for bathroom, hall and porches.
5. How to wire the different types of heating and AC equipment.
6. Understand the basics of pool and spa wiring.
7. Understand the NEC requirements for low voltage systems.

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

:
