

Clackamas Community College
Online Course/Outline Submission System

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Section #1 General Course Information

Department: Education, Human Services & Criminal Justice

Submitter

First Name: **Yvonne**

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Course Prefix and Number: EM - 151

Credits: 1

Contact hours

Lecture (# of hours): 10

Lec/lab (# of hours):

Lab (# of hours):

Total course hours: 10

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: Radiological Emergency Response

Course Description:

Provides a learning experience in which participants demonstrate comprehensive understanding of radiological protection and response principles, guidelines and regulations through a cycle of text, stimulus, response and reinforcement of correct responses.

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): Emergency Management 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:

Pass/No Pass Only

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. differentiate between regulations, laws, license conditions, regulatory guides, Nuclear Regulatory Commission (NUREG) documents, and Radiological Emergency preparedness (REP) reports and apply basic concepts of nuclear and health physics appropriate to the needs of the radiological response personnel;
2. convert numbers written on "standard notation" to "scientific notation", associate radiation protection principles and procedures with the characteristics of nuclear radiation and identify various biological effects with exposure to ionizing radiation;
3. list and define EPA Protective Action guidelines (PAGs) and the recommendation of the National Council on Radiation Protection, apply knowledge of nuclear power plant structure, operations and emergency response procedures to the role of radiological response team members;
4. differentiate between the roles of the media, the public information officer and the radiological response team in radiological emergency operations.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Regulations and guides for radiation protection and response.
2. Biological effects and internal hazards of radiation exposure.
3. Protective actions and protective action guides.
4. Public information and media relations.
5. Radioactive materials transportation, hazards and area control.
6. Nuclear physics for emergency response.

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

:
