

Clackamas Community College
Online Course/Outline Submission System

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Section #1 General Course Information**Department:** Education, Human Services and Criminal Justice

Submitter

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Course Prefix and Number: FRP - 296**# Credits:** 3

Contact hours

Lecture (# of hours): 32

Lec/lab (# of hours):

Lab (# of hours):

Total course hours: 32

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: Introduction to Wildland Fire Behavior Calculations (S-390)

Course Description:

This course introduces the students to the fire behavior calculations used to make estimations on wildland fire behavior and fire spread. Student will apply the calculations using graphs and scales based on modeling to determine the characteristics of fuels, the weather and topography that influences fire behavior and document these calculations using the manual methods.

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):** Fire Science (Wildland) Certificate

Are there prerequisites to this course?

Yes**Pre-reqs:** FRP-290 (S-290)

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

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

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?

✓ 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?

Yes

Will this course appear in the schedule?

Yes

Student Learning Outcomes:

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

1. define determinants of fire behavior on the wildlands,
2. demonstrate how to interpret fire behavior outputs,
3. identify and describe the characteristics of fuels, weather and topography that influence fire behavior;
4. interpret, apply and document wildland fire behavior and weather information;
5. make fire behavior calculations by manual methods such as tables and nomograms.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Topography.
2. Atmospheric stability.
3. Winds.
4. Weather information/forecasts.
5. USFBPS fuel models.
6. Fuel moisture.
7. Non-electric fire behavior processors.
8. Spotting model.
9. Zone calculations.
10. Plotting fire size and shape.
11. Point source.
12. Extreme fire behavior.
13. Documentation, briefings and monitoring for safety.
14. Fuel group exercises.

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

:
