

**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**

First Name: Marc

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**Course Prefix and Number:** FRP - 102**# Credits:** 1**Contact hours**

Lecture (# of hours):

Lec/lab (# of hours):

Lab (# of hours): 33

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 Forest Management Lab**Course Description:**

Field experience in using forest management tools and equipment discussed in FRP-101. Students will demonstrate skills used to measure tree height, tree diameter, tree age, diameter increment and basal area. Students will use fixed plot and variable plot forest sampling methods to gather data necessary to calculate timber stocking, volume and growth.

**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):** Basic Forest Management Certificate, Wildland Firefighting Certificate

Are there prerequisites to this course?

**No**

Are there corequisites to this course?

**Yes**

**Co-reqs:** FRP-101

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. demonstrate correct use of forest management equipment including diameter tape, loggers tape, clinometer, increment borer and wedge prism;
2. demonstrate an understanding of how to measure tree diameter, tree height, tree age, diameter increment, and basal area;
3. identify the process and use fixed plot and variable plot sampling methods,
4. calculate stocking, volume and growth from gathered data.

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***This course does not include assessable General Education outcomes.***

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**Major Topic Outline:**

1. Use of Maps and Aerial Photos in Forest Management.
2. Compass Use and Determining Bearings.
3. Tree Diameter and Height Measurement.
4. Measuring Tree Age and Diameter Growth.
5. Tree Volume and Diameter Growth Increment.
6. Fixed Plot Forest Sampling and Conducting a Fixed Plot Cruise.
7. Calculation of Stocking, Volume and Growth from Fixed Plot Measurements.
8. Basal Area Measurement and Variable Plot Forest Sampling.
9. Conducting a Variable Plot Cruise.
10. Calculation of Stocking, Volume and Growth Variable Plot Measurements.

**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:

**Specify term:** Fall 2015

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