Course Syllabus

Department: Conservation

Date: October 13, 2012

I. Course Prefix and Number: WFS 212

Course Name: Wildland Fire Chain Saws

Credit Hours and Contact Hours: 2 credit hours and 2 contact hours

Catalog Description including pre- and co-requisites: supporting data required for grade prerequisite of 'C' or higher.

This course provides an introduction to the function, maintenance and use of powered chain saws and their tactical wildland fire application. This course is appropriate for students with little to no previous experience in operating a chain saw. Field exercises emphasize safety, proper cutting techniques, field maintenance and use of a saw in surroundings similar to fireline situations. Course may lead to NWCG (National Wildfire Coordinating Group) standards for S-212 certification and may include a fee. Students pursuing NWCG certification MUST complete Firefighter type 2 (FFT2) prior to enrolling in this course. This can be accomplished through completion of CON 255 or any NWCG recognized S-130 course.

Relationship to Academic Programs and Curriculum including SUNY Gen Ed designation if applicable:

This course is an elective offering for the Wildland Fire Suppression Certificate.

II. Course Student Learning Outcomes: State the student learning outcome(s) for the course (e.g. Student will be able to identify…)

Students will:

1. Demonstrate proper chain saw safety both in writing and in the field. (professional competency, critical thinking)
2. Demonstrate proper chain saw field care including, fuel and oil filling, chain care and storage. (professional competency, information resources)
3. Describe the ways chain saws are used in a fireline situation. (professional competency)
4. Select the proper sized saw for the task at hand. (professional competency)

College Learning Outcomes Addressed by the Course: (check each College Learning Outcome addressed by the Student Learning Outcomes)

☐ writing  ☐ computer literacy
III. Assessment Measures (Summarize how the college and student learning outcomes will be assessed): For each identified outcome checked, please provide the specific assessment measure.

<table>
<thead>
<tr>
<th>List identified College Learning Outcomes(s)</th>
<th>Specific assessment measure(s)</th>
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<tr>
<td>Information Resources</td>
<td>Students will utilize both the Incident Response Pocket Guide and Fireline Handbook to solve potential problems which can occur on the fireline. In addition, students will need to reference the appropriate technical repair manual from the manufacturer of their chainsaw for troubleshooting maintenance and repair information.</td>
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<td>Critical Thinking</td>
<td>Students will be required, in the field and on an exam, to assess and describe the safe and proper way to fell a tree using a chainsaw taking into account tree characteristics such as growth defects, growth patterns and direction the tree is leaning.</td>
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IV. Instructional Materials and Methods

Types of Course Materials:

Safety manual, chain saws and safety gear

Methods of Instruction (e.g. Lecture, Lab, Seminar …):

Hands-on participation, video, class discussion, lecture

V. General Outline of Topics Covered:

1. Parts of the saw
2. SAFE usage
3. SAFE gear
4. Saw operation
5. Techniques of fire fighting
6. Practical: Using the saw
7. Saw maintenance
8. Saw field repair
9. Saw selection

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