

# Wildland Fire Science I

## Syllabus

### Course Information

Course Title: Wildland Fire Science I

Course Number: FOR 110

Course Date: Fall Semester 2019

Instructor: Lisa Keown

E-mail: [lisa.keown@crookcounty.k12.or.us](mailto:lisa.keown@crookcounty.k12.or.us)

Phone: Class 541.416.6900 ext. 3120 Cell: 541.420.3878

Course Location: Mod 3B

Course Description: Introduction to Wildland Fire Suppression, course will introduce students to modern wildland firefighting; history, policy evolution, organization, fire behavior, strategy, tactics, safety, equipment, mobilization and large fire support. Incorporated into the course will be a class project, requiring students to analyze a fatal or near miss, tragic, fire of national significance and presenting their findings to the class.

### Learning Outcomes

1. Identify major U.S. wildfires and how they effected and shaped U.S. Fire Policy.
2. Understand current wildland fire policy.
3. Working knowledge of basic wildland fire physics.
4. Identify and describe common fuel types.
5. Understand, discuss and have a working knowledge of current fireline safety practices.
6. Understand and describe the National Incident Management System (NIMS) its development and current configuration.
7. Hand tool use and maintenance.
8. Crew composition, structure and management.
9. Understand basic wildfire tactics, size-up, initial attack, mop-up, patrol. Includes mechanized and aerial attack.
10. Identify and understand principals of defensible space as it applies to the western states wildland/urban interface.
11. Understand large fire support, both operational and logistical.
12. Understand and apply principals of wildland fire situational awareness through review and study of past near misses and fire line fatalities. (Class project)

### Instructional Methods

Methods: This class will be taught using a variety of instructional methods including; lecture, discussion, class presentations, field exercises and field trips.

## Textbook and Materials

Textbook Title: Wildland Firefighting Practices  
Author: Lowe, Joseph D.  
Publisher: Delmar/Thompson Learning 2001  
Materials: Various handouts to support lecture and field exercises.

## Assessment

Grading: Final Examination 30%  
Mid-Term 25%  
Quiz(s) 20 % ( includes field trip report)  
Competencies/Project \*25%

Grade vs. Percentage

A	= 94% or more
A-	= 90% to 93%
B+	= 87% to 89%
B	= 84% to 86%
B-	= 80% to 83%
C+	= 77% to 79%
C	= 70% to 76%
D	= 60% to 69%
F	= 59% or below

Field Trips: When field trips are scheduled be ready with all field gear, boots, and field clothing and be on time.

Lab schedules may change due to weather, be flexible.

Plagiarism Statement: All students are expected to practice the highest standards of academic honesty. Cheating on assignments, quizzes or exams or plagiarizing other people's work is unacceptable and may lead to a failing grade. Plagiarism is using, borrowing, or stealing someone else's words or ideas without giving appropriate credit to the original author. This includes copying definitions, and sentences from textbooks, other student papers, the Internet or any other source. Students are expected to complete all assignments independently, unless it is a designated group project.

\* Projects will be assigned on the second week of the course. They will consist of paring students into two person teams, researching a specific wild fire event and providing a short but professional presentation and report in class.

### Citizenship (Behavior Expectations):

This course is being offered for dual credit (high school and college). Many of our guest speakers and hosts at field trips are taking great efforts to share their career experiences with you. I expect that you will always act in an attentive and respectful nature to all the professionals you come in contact during this course, including any substitute teachers who may be holding classes in my absence. Thanks for your cooperation!!