NR-5-59054 – WILDLAND FIRE TECHNOLOGY Course Syllabus for Fall 2023

1:30 PM 3:00 PM Monday thru Friday

**Instructors:**  Rodnie Roberts and Tim Garrison

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Instructor is not available on campus except during class hours. The best way to contact him is through email: [Tgarrison@valleyrop.net](mailto:Tgarrison@valleyrop.net), Wildland@valleyrop.net

**Course Objectives**

This course is comprised of four National Wildland Fire Coordinating

Group (NWCG) and two Federal Emergency Management (FEMA) courses. It will prepare students for entry-level wildland fire suppression employment with State and Federal wildland fire agencies. NWCG and FEMA Certifications for S-130 Basic Firefighter, S-190 Introduction to Fire Behavior, L-180 Human Factors in Wildland Fire Service, IS-700 Introduction to the National Incident Management System, and IS-100 Introduction to the Incident Command System will be offered.

This class also strives to develop physical skills that are necessary for arduous wildland firefighting work. Fire line construction, hand tool

maintenance, fire shelter deployment, fire hose drills, fire engine operations, and foot travel in complex terrain are components of our lab exercises.

**Learning Outcomes**

Students will have basic understanding of the organization system used to manage wildfires and other emergency incidents, and how the Incident Command System fits into the Nation-Wide emergency management structure. The student will be able to recite the factors which influence wildland fire behavior. The student will comprehend basic wildland fire suppression tactics and strategy concepts and how the ³Watch Out Situations´ and Standard Firefighting Orders ‘LCES´ (Look Outs, Communication, Escape Routes, and Safety Zones) apply to these concepts. They will be able to identify factors that affect working relationships with co-employees during long stressful fire seasons and how these factors may lead to safety issues. In addition, students will satisfactorily perform line construction techniques in the field in accordance with fire physics and fire behavior elements. Field performance will include an understanding of the safe use and maintenance of various tools and equipment for fire suppression.

**Online**

The majority of this class will be online. Field exercises are necessary by National policy, and will be on Fridays beginning late September.

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**Basic Skills Advisories**

Eligibility for ENGL 125, ENGL 126, and MATH 101. (A, CSU)

**Reedley College Policies**

To receive a passing grade for this course, students must complete all

assigned work. Incidents of cheating and plagiarism may result in any of a variety of sanctions and penalties, which may range from a failing grade on the particular examination, paper, project, or assignment in question to a failing grade in the course, at the discretion of the instructor and depending on the severity and frequency of the incidents.

Foul language or disruption to the instruction will not be tolerated. There will be no tobacco use in any building or school farm. Safety rules must be strictly followed including the use of personal protective equipment (PPE) and cautious behavior.

If you have a verified need for an academic accommodation or materials in alternate media (i.e., Braille, large print, electronic text, etc.) per the Americans with Disabilities Act (ADA) or Section 504 of the Rehabilitation Act, please contact the instructor as soon as possible.

**Text Books (Not issued)**

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**Laboratory Handbooks (required)**

National Wildfire Coordinating Group Student Manuals for S-130, S-190, Incident Response Pocket Guide (IRPG), Ten Standard Fire Order and Watch Out Situations. Packet available at TK College Textbooks, 797 Reed Ave, Reedley, CA. Phone 638-1800

**Laboratory Guidebooks on the Internet (required) I-100, IS-100, IS-700**

These will be vailable on the Internet (google them) and will be used for homework assignments and will be required to complete. Other online guidebooks will be announced in class.

**Attendance and Participation**

To be considered present students should be in class, attentive, properly attired, and ready for classroom or field activities regardless of weather or other factors.

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Two tardies will count as one absence. Students may be dropped if four absences are accrued. Field exercises missed cannot be made up and certification for firefighting may not be achieved in that event. Personal Protective Equipment (PPE) is mandatory for all field exercises. **Students who fail to have in possession all PPE for field exercises will not be allowed to participate, will be dismissed from the day¶s exercise, and will be charged an absence for the day**.

Field exercises (labs) are scheduled regardless of weather. At times **temperatures may be over 100 degrees or rainy conditions may be present.** Students need to be prepared to hike continuously for **3 miles over rough terrain at a moderate pace under the weather conditions of the day**. Students will learn and demonstrate how to use hand tools (shovels, pulaskis, and mcleods) to construct fire control line and use fire hose and appliances to construct hose lays. **It is strongly recommended that students be in good physical condition to perform arduous tasks.**

**Repeating Quizzes**

Quizzes can be repeated no later than the second class meeting after the

original date of examination. An appointment must be made with the instructor to make

up or retake a quiz. If you miss a class and wish to make up a test there may be a 10%

deduction of grade.

**Participation in Laboratory Work**

Firefighting is a particularly labor-intensive task. Safety and success

depend on every person and participation. In this class you will be practicing actual fireline work. For the safety of others, and yourself, you must perform in a responsible manner. You must have your own PPE in order to participate in laboratories. **You will be charged an absence and not be allowed to participate if you are not prepared for field tasks.**

Your performance in the physical laboratory training is assessed for a grade. If you cannot safely carry out the tasks for any reason, including a health condition, you should notify the teacher. Consideration will be given to modify the requirements on an individual basis.

**Final Exams**

The final exam for S-130 will be during Finals Week in December

**Certificates**

Certificates for S-130, S190, and L-180 will be available on the last class day of the Spring semester. Certificates for IS-700 and IS-100 will need to be downloaded from a website and presented to the instructor to earn credit for the courses.

**Grades**

S-190= 100 Points

ICS-100/IS-700= 20 Points each for a total of 40 points combined

S-130/L-180 = 100 Points total

Assigned work/quizzes 10 up to 50 Points each, assignment dependent

Cumulative course grade will be based upon the following:

A 90 ± 100%

B 80 ± 89

C 70 ± 79

D 60 ± 69

F 59 or less

**Certification**

To receive a certificate of successful completion a student must pass all S 190, L-180, S-130 and I-100 unit exams with a satisfactory score (specified for each unit) and pass the final exam for each course. Final exam passing grade for NWCG & FEMA courses is 70% (NWCG and FEMA requirement).

Students who pass the S-130, S-190, and L-180 unit final exams but fail

the overall class and will not be given the certificates. In other-words students must pass the class with a grade of a C or better to receive the certificates.

**Required Equipment**

Each student **must** have the following items during each class in order to be allowed to participate and earn credit for individual field exercises:

-Hardhat w/ Name

- Leather Gloves

-Safety Glasses

-Water container (1 quart canteens or water bottles)

-Safety Boots (estimate of $200)

-Long Pants (will be provided)

-Long Sleeve Shirt (Will be provided**)**

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-Wildland Pack will be provided and will accommodate the carrying of a hardhat, gloves, safety glasses, water, and food. Chest and waist straps are advisable.

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