NR-5 – WILDLAND FIRE TECHNOLOGY

Course Syllabus for Fall 2018

Class meeting: NR 5

Section Number: 59801

**Instructor:** Joseph Reyes

Office Hours: M – W – F From 1:20 to 2:40

Office Telephone: 559.876.2122

Email: [nuada31@gmail.com](mailto:nuada31@gmail.com)

Class Meets at Reedley College in Room FEM 7

Lecture Monday, Tuesday, Wednesday, Thursday 01:30PM - 01:55PM,

Lab Monday, Tuesday, Wednesday, Thursday 02:05PM - 02:40PM

Instructor is not available on campus except during class hours. The best way to contact is through email.

# Course Objectives

This course is comprised of four National Wildland Fire Coordinating Group (NWCG) and one 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 I-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. They will be able to recite the factors which influence wildland fire behavior. They will comprehend basic wildland fire suppression tactics and strategy concepts and how the “Watch Out Situations” and “Standard Firefighting Orders” and “LCES” (Lookouts, Communications, 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.

# 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 (optional)

Wildland Firefighting Practices” by Joseph D. Lowe, Delmar Publishing Company, Copyright 2002.

“Firefighter’s Handbook on Wildland Firefighting Strategic, Tactic and Safety 3rd Edition 2005” by William C. Teie, Produced and Published by Deer Valley Press, 1994, 5125 Deer Valley Road, Rescue, California, 95672, Oklahoma State University, 3rd edition; ISBN 1-931301-16-6.

# 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.

# 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. 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 fire fighting 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 handtools (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.

# Drop Deadline

The last day to withdraw from college or be dropped from 18 week classes is September 10.

# Participation in Laboratory Work

Firefighting is a particularly labor-intensive task. Safety and success depend on every person’s full 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 wear your PPE in order to participate in laboratories. **You will be charged an absence and not be allowed to participation 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 and will be announced at a later date.

# Certificates

Certificates for S-130, S190, and L-180 will be available on the last class day of the semester, Friday December 12. Certificates for IS-700 and I-100 will need to be downloaded from a website and presented to the instructor to earn credit for the courses

# Grades

# S-190 20% 100 Points

# ICS-100/IS-700 10% 20 Points each

# S-130/L-180 20% 100 Points total

# Assigned work/quizzes 20% 10 or100 Points each, assignment dependent

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# 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).

# 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
    - Leather Gloves
    - -Safety Glasses
    - -Water container (1 quart canteens or water bottles)
    - -Boots (minimum 8” high) (estimate $200)
    - -Long Pants (no cuffs, **NO HOLES**)
    - -Long Sleeve Cotton Work Shirt **(NO HOLES)**
    - -Backpack sufficientto carry hardhat, gloves, safety glasses, water, and food (needs to be in addition to your regular school backpack). Chest and waist straps are advisable.

Details will be given during the first class meeting.

# Schedule Modifications and Important Dates

**Important Dates Fall 2018**

08/08 Pre-registration closes

08/10 Classes Begin (18-week & 1st 9-week session)

08/24 Add w/Auth Code & Drop w/o ‘W’ - in person

08/31 Add w/Auth Code & Drop w/o ‘W’ - on WebAdvisor

09/03 Labor Day Holiday – Campus Closed

09/14 Drop w/ ‘W’ in person or on WebAdvisor

10/12 Classes Begin for 2nd 9-week session

10/15 Veterans Day Holiday – Campus Closed

11/12 Thanksgiving Holiday – Campus Closed

12/21 Campus Closes until 1/2/2019