***Reedley College*** *– Natural Resources/Forestry/Wildland Fire Technology*



**Course:** NR 95 – Section 53977

**Title:** Integrated Fuels Management

Monday, Tuesday, Wednesday – 8:00 to 2:15 p.m.

**Dates:** October 12, 2020 to December 18, 2020

**Room:** FEM 7 and multiple & frequent off-site locations (Personal transportation will be required)

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**Syllabus**

**Instructor:** Adam Hernandez

**Office Telephone:** 559. 638.0300 ext.3496

**Email:** [adam.hernandez@reedleycollege.edu](mailto:adam.hernandez@reedleycollege.edu)

**Office Location:** On Line or FEM-10

**Office Hours: CANVAS, EMAIL or ZOOM:** Tuesday, 1:00-2:00, Thursday,12:30-1:30, Friday 8:00-11:00.

**Drop Deadline: October 24, 2020** – Last day to drop for full refund

**November 11, 2020 -** Last day to drop to avoid a “W” on transcript

**Final Exam:** TBD

# Text Book:

No text Book will be required, however, reference materials will be required and made available, and or, accessed by the student through online references.

**Laboratory Guidebooks & Packets**

Materials and packets will be provided thought the semester. Some mat be required to download.

\*\* Documents available on the Internet (google them) and will be useful for homework assignments. Other online guidebooks may be announced in class.

**PREREQUISITES:** Natural Resources 19V and 97. ADVISORIES: English 1A or 1AH. **LIMITATION ON ENROLLMENT:** Successful completion of federal work capacity test with in two calendar years. Incoming students may enroll based off equivalency course completion and extensive work experience. (A, CSU)

IMPORTANT DATES:

NOVEMBER 11 Veterans Day (Campus Closed)

NOVEMBER 26th and 27th Thanksgiving (Campus Closed)

**Course Description:**

This Course will allow for advancement in wildland fire fuels and prescribed fire concepts, leadership development and overall knowledge base in hazardous wildland fire fuels management. Work Labs will be tied to agency projects which will provide students the opportunity to apply skills and leadership in a training environment. Students who complete this course will have required training and experience to competitively apply for state, federal and private fuels management occupations. This course will also provide a pathway to current and former wildland fire employees that meet the course equivalent and work experience.

**Course Objectives:**

1. Develop go-no-go standards and ensure current and predicted conditions are adequate for project initiation

2. Develop safe efficient operational sequence for fuels management projects based on crew capabilities and look up, look down, look around factors.

3. Implement and assess actions against the factors effecting human performance in high risk environments, make corrections as appropriate.

4. Considering project lay out and topography, develop strategies for prescribed fire and fuels reduction operations and the associated tactics and equipment.

5. Demonstrate initiative and action in the absence of orders.

6. Identify problematic conditions for fuels project and implement basic corrective measures.

7. Demonstrate proficiency in the use of hand tools and chainsaws to cut trees, brush and other vegetation for fireline construction and fuels management projects.

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.

**Student Learning Outcomes:**

In the process of completing this course:

1. **NR-95 SLO1: Efficiently develop safe and efficient fuels management activities under varying scenario-based conditions while considering fire behavior, fuels, topography and weather conditions as a member of a cohesive wildland fire crew.** Expected SLO Performance: 70.0

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1. **NR-95 SLO2: Under a progressive hazardous fuels project scenario perform duties as a lead crewmember by developing a size up, providing orders and apply appropriate tactics.** Expected SLO Performance: 70.0

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1. **NR-95 SLO3: Demonstrate the application of the rules of engagement and where they would apply in order to properly respond to the changing fire environment.** Expected SLO Performance: 70.0

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1. **NR-95 SLO4: Apply knowledge of leadership, human factors and hazardous behaviors under adverse working conditions.** Expected SLO Performance: 70.0

**Online:**

Portions of this class will be online and will be announced by the instructor. **CANVAS** and **REMIND App** will be used for disseminating messages, information and assignments.

**Participation in Laboratory work:** 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 (Chainsaws, drip torches, shovels, Pulaskis, and Mcleods) to conduct fuels reduction work. Mechanized equipment will be used to train students in mechanized fuels management and removal. It is strongly recommended that students be in good physical condition to perform arduous tasks. The intent of the field exercises is to prepare the students for what can be expected of them as fuels management practitioners both technically and physically.

Fuels management is a particularly labor-intensive task. Safety and success depend on every person’s full participation. In this class you will be practicing actual fuels reduction 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 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.

**Class Notification:** Class notifications will be made by your instructor through the **REMIND App** and or **CANVAS.** you are ***required*** to monitor these mediums for course updates, information sharing and assignments.

**Cancelled Class Notification:** Communications for class cancellations will be made by your instructorthrough **CANVAS** and or the **REMIND App.**

**Academic Dishonesty, Plagiarism and Cheating:**

Students at Reedley College are entitled to the best education that the college can make available to them, and they, their instructors, and their fellow students share the responsibility to ensure that this education is honestly obtained. Because cheating, plagiarism, and collusion in dishonest activities erode the integrity of the college each student is expected to exert an entirely honest effort in all academic endeavors. Academic dishonesty in any form is a very serious offense and will incur serious consequences. Refer to the college catalog for further details surrounding actions that will be implemented regarding academic dishonesty.

Plagiarism is the adoption or reproduction of the ideas or words or statements of another person without due acknowledgment. Cheating is the act or attempted act of taking an examination or performing an assigned, evaluated task in a fraudulent or deceptive manner, such as having improper access to answers in an attempt to gain an unearned academic advantage. Cheating can take the form of the storing of information in graphing calculators, pagers, cell phones, and other electronic devices. Therefore, no items of any kind may be on the desktop, including water bottles, during testing. Students may not wear hats/caps during testing. Incidents of cheating and plagiarism may result in a variety of sanctions and penalties, which may range from a failing grade on a particular examination, paper, project, or assignment in question to a failing grade in the course at the discretion of the instructor and depending upon the severity and frequency of the incidents.

**Accommodations for students with disabilities**:

If you have a verified need for an academic accommodation or materials in alternate media (e.g., Braille, large print, electronic text, etc.) per the Americans with Disabilities Act (ADA) or Section 504 of the Rehabilitation Act please contact me as soon as possible. **A formal counseling assessment to determine the appropriate accommodation is required before any accommodation(s) can be made. The counseling center facilitates the process.**

**Field Trip**: Field trips will be frequent and will require personally acquired transportation

**Grading Policy and Certificates**:

Grading will be based on the results of two assignments/quizzes, field trip participation, midterm and final exams. Assignments must be submitted on the due date or earlier. **Assignments and exams will be based on lectures, in-class labs, and reading assignments. Please read all assigned readings!**

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| **Grade Distribution** | |
| A = 270-300 Pts. | 90-100% |
| B = 240-269 Pts. | 80-89% |
| C = 210-239 Pts. | 70-79% |
| D = 180-209 Pts. | 60-69% |
| F = Below 180 Pts | Below 60% |

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| **Assignment Type** | **Possible Points** |
| Assignments/Quizes | 2 @ 25 Pts ea. = 50 |
| Mid-Term Exam | 75 |
| Final Exam | 100 |
| Performance Evaluation and or Paper | 75 |
| **TOTAL Points Possible** | **300** |

Grading will be based on the results of 5 Unit Tests /quizzes and Field participation. Assignments must be submitted on the due date or earlier. **Assignments and exams will be based on lectures, in-class labs, and reading assignments.**

**Student Required PPE for Field Trips:**

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

- Hardhat

- Leather Gloves

- Water container (1-quart canteens or water bottles)

- Leather Boots (minimum 8” high uppers, nonskid soles preferably Vibram, no steel) (estimate $200)

- Long Pants w/ Belt (no cuffs, NO HOLES)

- Long Sleeve Cotton Work Shirt (NO HOLES)

- Backpack sufficient to 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\*\*\*

**Behavioral Standard Operating Procedures:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

***Respect and Common Courtesies:*** Students and teachers greatly appreciate attention to appropriate classroom courtesy. Please take care of personal needs (e.g., using the restroom, getting a drink, sharpening a pencil) before class begins. Foul language or disruption to the instruction will not be tolerated. All class attendees will treat and be treated with respect or will be asked to leave the class by the instructor. There will be no tobacco use in any building or school farm.

***Attendance and Punctuality:***I start class on time and take roll. Please do not be late. If you are late, it is your responsibility to ensure that you are counted for attendance **after** class. 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.* *Roll will be taken at each session and students will be dropped if two absences are accrued unless specific arrangements are made.*** Field trips/exercises missed cannot be made up.

Because the job of a Wildland Fuels Management is inherently risky, you are expected to put forth nothing less than complete focus while you are in this class. As your instructor, I cannot permit distractions that takes focus away from the rest of the class as the concepts that we cover may one day keep you or others safe on the worksite. I will not allow any interruptions that take away learning opportunities from others. Students are allowed to miss only 10 hours of class *(equivalent to 2 class sessions plus a cushion)* during the semester including absences and tardies. Any absences beyond 10 hours will be grounds to be dropped from the program. If you have other commitments that may impact your ability to show up on time or will impact your ability to attend class, you may want to enroll at another time.

IF THERE IS ANYTHING I NEED TO KNOW: about your situation that may create challenges for you this semester you need to let me know as soon as possible, that way I can have awareness.

SLEEPING IN CLASS: If you are observed to be sleeping in class you will be excused until you can come back attentive. If you If you are tired while in class you may stand up at your discretion in order to maintain focus. If your tiredness becomes a problem/distraction, the instructor may excuse you for the day and you may be marked absent.

***Technological Gadgets:*** Please turn off or silence cell phones when entering the class.

PHONE USE WILL NOT BE ALLOWED IN CLASS: If you are observed using your phone during class time you will be asked to leave class, you will be marked as absent and will lose credit for the entire day. Phones will not be out while you are in the class room. All texting and electronic device activities must be done outside of class. You will get breaks on the hour, do what you need to do then outside of the class room. If you expect something to come up during class that requires phone use let me know and I will allow you to use/monitor it at my discretion.

***Assignments:***

WRITING ASSIGNMENTS: All writing assignments will require that you visit the Writing center in order to receive a full grade.

MODULE TAKE-AWAYS: After each class session you will be required to write down 5 main points that you took away from class.

YOU ARE REQUIRED TO TAKE NOTES, IT WILL BE A PART OF YOUR GRADE: Much of the concepts and information you will be required retain will be passed along through lectures. You must take good notes to ensure that you have the required material for study purposes. If you miss class you will need to find a class mate and obtain the notes for the day you missed. Lecture information will not always be formatted to be posted on canvas.

COMMUNICATION IS REQUIRED: Unless previously arranged with the instructor, if you miss a deadline on an assignment without contacting me ahead of time you will not get an opportunity to make it up, which means you will get a zero. You need to be a responsible adult; this program will not enable irresponsibility.

MISSED EXAM: In the event you are going to miss an exam OR assignment you must:

o Contact me at least 1 day ahead of time to let me know your special situation.

o Notify me ahead of time to not be penalized.

TEAM WORK: The only way we get through this is together. We need to help one another. Work as a team, pick each other up, help one another get through the academic and physical challenges, we need to have regular study groups, hold each other accountable and hold yourself accountable.

PERSONAL GROWTH AND EFFORT: You are here by choice and you are going to do it anyway, might as well do it right. Have some integrity to do the right thing when no is looking.

READING AND WRITING IS REQUIRED: During this course you should expect to have to communicate through reading, writing and oral briefings.

***Preparedness:***

YOU ARE RESPONSIBLE FOR YOUR LEARNING: If you don’t understand you need to ask. You are here by choice so, strive to do well. If you don’t ask, I cannot help you.

PARTICIPATION GUIDELINES: participation is considered active involvement in all class room or lab activities. Participation requires you to engage in lecture topics. You will be graded on your participation.

CLASS ROOM PREPAREDNESS: You will be docked preparedness/participation points for not having your required materials. You must always bring to class your Lecture/Lab Manuals

* YOU MUST ALWAYS BE PREPARED FOR CLASS:
  + If you do not have your proper PPE you will be excused from class and will lose credit for the day.
  + If you do not have your lab manual or notetaking materials you will be considered unprepared, will be excused from class and will lose credit for the day.
* Personal Protective Equipment (PPE) is mandatory for all field exercises. Safety rules must be strictly followed including the use of personal protective equipment (PPE) and cautious behavior. Students who fail to have in possession all PPE for field trip/exercises will not be allowed to participate, will be dismissed from the day’s exercise, and will be charged an absence for the day. ***SEE STUDENT REQUIRED PPE listed items at the end of this document.***
* ***Classroom Visitors:*** It is not acceptable to bring guests to class.
* ***Late Work:*** Work that is turned in late will lose 10% percentage grade points for each class session that is missed. (one class session late = -10% two class sessions late = -20%. Make up work ***will not*** be accepted after 3 missed sessions)
* ***Make-ups:*** Make up work will be accepted at the discretion of the instructor. All make up work must be discussed and approved by the instructor. Do not assume that make up work will be made available to you.
* ***Extra Credit:*** Extra Credit opportunities may be made available throughout the semester. Opportunities will be communicated as they arise.

Tentative Course Outline:

Will be Provided as a Handout in class.