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

**Course:** NR 133 – Section 53215

**Title:** Fundamental Chainsaw Operations

Monday – 1:00 to 4:50 p.m.

**Dates:** August 12, 2019 to October 7, 2019

**Room:** Landscape Horticulture Room 1

**Syllabus**

**Instructor:** Adam Hernandez

**Office Telephone:** (559)638-0300 ex. 3496

**Email:** adam.hernandez@reedleycollege.edu

**Office Location:** FEM-10

**Office Hours:** Monday, 11:00-1:00pm & 5:00-6:00pm/Tuesday, 8:00-10:00

**Drop Deadline: To be discussed in class**

**Final Exam:** December 11, 2019

**Text Book:**

1. Chainsaw Operator’s Manual, Chainsaw Safety, Maintenance and Crosscutting Techniques. ISBN 9780643103825 **(provided)**
2. National wildfire coordinating group. 2004. Firefighter training, S-212 National interagency fire center. Boise, ID.  **(provided)**

**Course Prerequisite:** None

**Holiday/No Class:** September 2, 2019 – Labor Day

 October 14, Columbus Day – Indigenous People’s Day

 November 28, Thanksgiving

**Course Description:**

Provides introductory level training for the use of chain saws in the forestry and natural resources field. Emphasis is placed on defining and applying chain saw safety standards, maintenance and function of personal protective equipment (PPE), identification of chain saw parts, maintenance, tuning, and tactical application of techniques required for brushing, limbing, bucking, and falling trees. This class also strives to develop physical skills and stamina that is necessary for arduous work.

**Course Objectives:**

In the process of completing this course, students will:

1. List and define chain saw safety standards outlined by Occupational Safety & Health Administration (OSHA).
2. Identify basic chain saw parts nomenclature, maintenance, tuning, troubleshooting, and safety features.
3. Know the approved use, maintenance, and function of personal protective equipment (PPE) required for safe chain saw operation.
4. Demonstrate field maintenance tasks required for chain saw operation.
5. Demonstrate the tactical application of chain saws in brushing, limbing, bucking, and falling wood material.

**Learning Outcomes:**

Upon completion of this course, students will be able to:

1. Apply chain saw safety standard skills outlined by Occupational Safety & Health Administration (OSHA).
2. Differentiate among basic chain saw parts nomenclature, maintenance, tuning, troubleshooting, and safety features.
3. Select the approved use, maintenance, and function of personal protective equipment (PPE) required for safe chain saw operation.
4. Select the appropriate field maintenance tasks required for proper chain saw operation.
5. Apply the tactical chain saws skills related to brushing, limbing, bucking, and falling wood material.
6. ***\*\* Students who successfully complete this course with a grade of 70% or better will receive a NWCG S-212 Certificate.***

**Cancelled Class Notification:** Communications for class cancellations will be made by your instructorthrough your preferred email account which will be collected the first day of class.

**Behavioral Standards:**

* ***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 four absences are accrued unless specific arrangements are made.*** Field trips/exercises missed cannot be made up.
* ***Technological Gadgets:*** Please turn off or silence cell phones when entering the class. Students may not use cell phones during class. For any cell phone use, including texting, you will be asked to leave class.
* ***Preparedness:*** 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.

**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.**

Course Outline:

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| Session Date | Chapter/Resource | Topic/Discussion Emphasis |
| 8/12 | S-212 | Unit-0-1: Introduction, Safety Requirements, OHLEC |
| 8/19 | S-212 | Unit-2: Chainsaw Maintenance and Operation |
| 8/26 | S-212 | Unit-3: Chainsaw Tasks and Techniques, Tools and Equipment |
| 9/02 |  | ***Labor Day, No Class*** |
| 9/09 | S-212 | Unit-4: Fireline Construction/Mop up/TSI Principals |
| 9/16 | S-212 | Unit-5: Brushing, Bucking and Limbing Fundamentals |
| 9/23 |  | Felling Fundamentals, Case Studies, Go, No Go |
| 9/30 |  | Final Exam |
| 10/07 |  | Final Repairs Evaluation |
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| Notes: |

**Field Trip**: N/A

**Grading Policy**:

Grading will be based on the results of Operational Skills, Repair Skills, Laboratory Participation and Final Exam. 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 = 90-100 Pts. | 90-100% |
| B = 90-89 Pts. | 80-89% |
| C = 70-79 Pts. | 70-79% |
| D = 60-69 Pts. | 60-69% |
| F = Below 60 Pts | Below 60% |

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| --- | --- |
| **Assignment Type** | **Possible Points** |
| Repair Skills | 25 |
| Operational Skills | 25 |
| Final Exam | 25 |
| Field Trip Participation and or Paper | 25 |
| **TOTAL Points Possible** | **100** |

\*\* Students who successfully complete this course with a grade of 70% or better will receive a NWCG S-212 Certificate.

**Student Required PPE for Field Practicum:**

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

- Hardhat

- Ear Protection

- 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\*\*\*