**Reedley College – Agriculture and Natural Resources Department**

**Course Syllabus – Spring 2021**

**Course Number & Name: NR 22 – Forest Protection                                   Section #: 56445**

**Class Meeting Time and Place:  Lecture 6:00pm – 7:15pm TH in FEM 12; Lab 7:35 pm - 8:50 pm TH in FEM 12.**

**Instructor:** Joshua Soderlund

Office: FEM 4G, Phone (559) 494-0300, Ext. 3260

Email: joshua.soderlund@reedleycollege.edu

Virtual Office Hours: M--1:15pm-2:15pm; W--12:30pm-2:00pm; TH--9:00am-11:00am; F--12:30pm-1:00pm; Other times by appointment or *if my office door is open then I am available to talk.*

(ZoomConference links will be emailed out weekly)

**VIRUS WARNING- BECAUSE OF SERIOUS RISK OF COVID 19 VIRUS TRANSMISSION ALL PERSONS ARE EXPECTED TO ABIDE BY SAFETY PROTOCOLS AT ALL TIMES THROUGHOUT THE SEMESTER**

**DO NOT ATTEND ON-CAMPUS CLASSES IF YOU ARE ILL, IF YOU HAVE SYMPTOMS OF INFECTION OR HAVE BEEN IN CONTACT WITH ANYONE BELIEVED TO BE INFECTED WITH COVID 19.**

You are **required to wear a cloth face covering** over your mouth and nose while in face-to-face portions of this class and while inside of school buildings, near the entry doors and when outside but near other people.  You are required to wear facial coverings during laboratory exercises whenever other people are present in your area.

You are required to take action to sterilize equipment or other items that you handle before leaving an area and before allowing other people to touch those items.

**Course Prerequisites:**none**Units:**2

**Advisories:** English 1A

**Holidays:** Spring Recess- 3/29/21-4/2/21

**Drop Deadlines: January 22th,**last day to drop to qualify for a refund.  **January 29st,**last day to drop to avoid “W”.  **March 12th,**after this date letter grade assigned.

**Final Exam:** Wednesday, May 19th, 6:00pm - 7:50pm

**Textbook and Required Materials:**

Edmonds, R., Agee, J., & Gara, R. 2011, Forest Health and Protection, 2 ed. Long Grove, IL: Waveland Press, Inc. (ISBN 13: 978-1-57766-652-3) **(Recommended)** Available online; **NOT THE BOOKSTORE.**

Websites: [www.caforestpestcouncil.org (Links to an external site.)](http://www.caforestpestcouncil.org/)        [http://www.fs.fed.us/foresthealth/index.shtml (Links to an external site.)](http://www.fs.fed.us/foresthealth/index.shtml)

**Course Outcomes:**

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

* Explain basic forest health concepts, such as the characteristics of a healthy forest and the possible causes of forest health problems
* Identify different management treatments for major forest disease and insect problems.
* Explain the basics of wildland fire prevention and management in relation to forest protection.

**Course Objectives:**

In the process of completing this course, students will:

* Identify different forest diseases (fungus, bacteria and virus).
* Identify different forest insect pests.
* Analyze case studies about different disease/pests and management strategies
* Mechanisms and genetics of resistance to diseases.
* Interactions among the various organisms sharing woody plant hosts.

**Classroom Conduct:**

All students are expected to act in a mature manner that respects their fellow students, the instructor and any guest presenters.  Please turn cellular phones, pagers and all other electric devices **off** during class time.  **No** tobacco products or sunflower seeds in class.  Due to computer lab there is **NO FOOD or DRINKS.**

**Computer Use:**

Due to COVID-19 safety protocols the use of the computers in FEM 12 are unavailable.  So you need to bring your personal laptop or check out a campus laptops  Check outs will be available on a first-come-first-serve-basis while supplies last. Please bring valid ID to the college’s open computer lab located in the campus library, masks and social distancing are required.  For questions call [(559) 638-0300 (Links to an external site.)](https://www.reedleycollege.edu/news/2020/+15596380300).

**Cheating and Plagiarism:**

Cheating and plagiarism are serious offenses and will not be tolerated.  Students shall comply with Board Policy 5410; each student is expected to exert an entirely honest effort toward attaining an education.  Violations of this policy will result in failing grade on an assignment and/or entire course.

**Accommodation Statement:**

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 me as soon as possible.

**Late Work Policies:**

To receive a grade for this course, students must complete all assigned work.  Late assignments will have 10% deducted each week.  After an assignment is submitted by the due date a student has one week to re-submit for a better grade.  Please communicate with me if you have extenuating circumstances which will cause a late assignment submission.

**Attendance and Grading Policy:**

If you miss a lecture, you are responsible for obtaining notes from a classmate. Success in this class depends on the presence and active participation of each student; therefore, you are expected to attend every class.  Your participation record will be considered when assigning your final grade.  **If you miss class >6 times during the semester (without a valid reason) you may be dropped from the course**.  If class is canceled students will be notified via Canvas and a note on classroom door and the dean’s office will post the canceled class to the Reedley College website.  Individual exam grades may be curved and final grades will be assigned based on a straight percentage system according to the following scale:

|  |  |  |  |
| --- | --- | --- | --- |
| **Course Grade** | **Cumulative Percent** | **Breakdown of Grades** | **Points** |
| A | 90-100 | Quizzes | 50 |
| B | 80-89 | Exam 1 | 75 |
| C | 70-79 | Exam 2 | 75 |
| D | 60-69 | Comprehensive Final Exam | 100 |
| F | <59 | Presentations | 75 |
|  |  | Written Assignments | 75 |
|  |  | Participation | 50 |
|  |  | TOTAL | 500 |

Tentative Lecture Schedule: Note: exact order of topics may vary depending upon scheduling of speakers and availability of necessary resources.

**Date                      Lecture Topic**

1/13                             Introduction / The Concept of Forest Health

1/20                             Fire Ecology and Fire Regime

1/27                             Organizing for Fire Management / Fire Strategies for Forest Health

2/3                               Abiotic and Animal-Caused Injuries & Wind and Forest Health

2/10                           Introduction to Diseases / Disease-Causing Organisms & Nursery Diseases

2/17                            **Exam#1**

2/24                          Root Diseases and Mycorrhizae

3/3                               Foliage Disease and Rusts

3/10                           Stem & Branch Diseases / Mgmt. of Forest Diseases

3/17                         Introduction to Forest Entomology

3/24                        **Exam #2**

3/31                          Spring Break 3/29 - 4/2

4/7                           Insect Defoliators

4/14                          Bark and Ambrosia Beetles and Their Management

4/21                        Principles of Forest Insect Management

4/28                          Invasive Plant Pests

5/5                         Group Presentation – Pest Pamphlet;

5/12                        Review

**Final Exam: Wednesday, May 19th, 6:00pm - 7:50pm**