CR COLLEGE OF THE REDWOODS

Syllabus for
Forest Health and Protection

Course Information

Semester & Year: Spring 2024
Course ID & Section #: FNR-60-E7713
Instructor's name: Madeleine Lopez
Location: AT 127
Day/Time of required meetings: Tuesday & Thursday 3:00- 4:25 pm
Course units: 3.00

Instructor Contact Information

Office location: AT 123 or *Online: ZOOM*
Office hours: Tues. 4:25 – 5:30 pm, Fri. 1:10 – 3:10 pm, by appointment
Phone number: (707) 476-4131
Email address: Madeleine-lopez@redwoods.edu

Required Materials

Textbook Title: Forest Health and Protection | Date 2010 | ISBN 978-1-57766-652-3
Author: Edmonds, Agee, and Gara

PDF on Canvas (free): California Forest Insect and Disease Training Manual (CFTM)

Notebook: Write in the Rain or other waterproof notebook for field trips.

*Modules on Canvas will provide additional resources such as videos, supplemental reading and web resources.

Recommended Materials

Field trips will require "gear" to keep you comfortable in an outdoor learning environment. This will include hiking boots with ankle protection, raincoat, and warm layers.

Catalog Description

A survey of forest health theory and application in local and regional ecosystems. Discussion topics include pest identification and pest complexes, disease symptoms and recognition, identification of abiotic disorders, and prevention strategies to protect forest values. Field trips will showcase local forest health problems and protection techniques.

*_Note_**: Weekend field trips required; the College does not provide transportation. These dates will be announced during the semester. *If you cannot attend these trips a mandatory writing assignment will be used as a replacement.*

Course Student Learning Outcomes

1. Articulate a meaningful definition of forest health.
2. Describe the tools, techniques, and organizations involved in forest protection.
3. Discuss the life history characteristics of pests and diseases.
4. Lab specific: Identify common forest health threats in different forest types.

Prerequisites/co-requisites/ recommended preparation

Advisory

FNR51 - Dendrology: the Identification and Study Of Woody Plants
Students will struggle with identifying pest species if they are unable to correctly identify the host tree species.

FNR1 - Introduction to Forestry and Natural Resources
Students may struggle to succeed without a basic understanding of the context of forestry and natural resources management with regards to forest health issues.

About the Course

Quizzes & Exams: The quizzes are designed to help you stay on top of the readings for the course, and help you study for the exams. We will have multiple 'low stakes quizzes' (LSQ) delivered this semester as an opportunity to practice potential exam material in a low stakes environment that encourages learning and studying. We will cover these quiz answers during class time for immediate feedback. Please be sure to attend class regularly as these cannot be made up. Your lowest quiz score will be dropped. Exams are cumulative and cover lecture, lab, and reading content.

Pest/Disease Presentation: You will be required to prepare a 2-page fact sheet of a local pest/disease of your choosing and you will present this pest to the class via a 6-7 minute presentation. You will be required to include a PowerPoint to accompany this presentation. Please plan ahead as there will be no late submissions accepted for the final project.

Emails: Please reach out using your CR student email whenever you have questions, get stuck, or need to communicate with me directly. When sending an email, please be sure to **label the Subject line as "FNR 60 _additional info_"** to ensure your email gets flagged.

Expected workload: The expected workload for CR Courses is calculated at 3 hours per week for each unit in a standard 16-week course. For the combined lecture and lab, this amounts to nine hours per week. This may be more or less hours depending on your learning style and inevitable technical challenges with internet/software etc.

Course Schedule: Please see Canvas for schedule updates regarding field trips and other important dates. Dates are subject to change, especially in inclement weather.

*Disclaimer: The specifics of this course syllabus can be changed at any time, and you will be responsible for abiding by any such changes. Significant changes to the syllabus will be communicated to you via Canvas announcements.

Evaluation & Grading Policy

Grading Scheme

A: 94-100, A-: 90-<94, B+: 87-<90, B: 84-<87, B-: 80-<84, C+: 77-<80, C: 70-<77, D: 60-<70, F: <60

Type	% Weight of total
Quizzes	15%
Exams	25%
Assignments and Activities	35%
Projects	20%
Professionalism/ participation	5%
Grand Total	100%

Exam Policy

It is required to be in attendance and take the exam on the scheduled date. Exams cannot be recreated particularly with fresh specimens, thus, missing the exam without an excused absence/medical note will result in a 0. The midterm exam must be completed within 1.5 hours. Failure to be aware of exam dates because of class absence does not constitute an excuse – any changes will be posted on Canvas. You may register directly with CR for alternate testing environments.

Late/missing work policy: Assignments and quizzes are to be completed and turned in by the date indicated. Please plan ahead, as late assignments will be penalized and lose 5% for each day they are late. Work submitted 10 or more days past the deadline will result in a 50% deduction. No late work will be accepted after 20 past the due date. If a serious and compelling issue should arise and prevent you from turning in the assignment on time (e.g. death in the family, hospitalization), please contact me in advance and we will work out an alternative plan. Deadline extensions may be granted in the event of excused absences. An excused absence means that you have a) notified me in advance and received confirmation from me that your request has been accepted or b) provided a written medical excuse. My goal is to help every student effectively learn and grow in this course, as such, I will remain open and flexible.

Drop Policy: You may be dropped from the class if you miss 3 or more weeks of class participation, discussion, assignments or labs prior to the end of week 10.

Educational Accessibility & Support

College of the Redwoods is committed to providing reasonable accommodations for qualified students who could benefit from additional educational support and services. You may qualify if you have a physical, mental, sensory, or intellectual condition which causes you to struggle academically, including but not limited to:

- Mental health conditions such as depression, anxiety, PTSD, or bipolar disorder
- Common ailments such as arthritis, asthma, diabetes, autoimmune disorders, and diseases
- Temporary impairments such as a broken bone, recovery from significant surgery, or a pregnancy-related disability
- Neurodevelopmental disorders such as a learning disability, intellectual disability, autism, acquired brain injury, or ADHD
- Vision, hearing, or mobility conditions

Available services include extended test time, quiet testing environments, academic assistance and tutoring through the LIGHT Center, counseling and advising, alternate formats of course materials (e.g., audio books, braille, E-texts), assistive technology, learning disability assessments, approval for personal attendants, interpreters, priority registration, on-campus transportation, adaptive physical education and living skills courses, and more. If you believe you might benefit from disability- or health-related services and accommodations, please contact Student Accessibility Support Services (SASS). If you are unsure whether you qualify, please contact Student Accessibility Support Services (SASS) for a consultation: sass@redwoods.edu.

SASS office locations and phone numbers

Eureka campus
- Phone: 707-476-4280
- Location: Student Services building, first floor SS113

Del Norte campus
- Phone: 707-465-2353
- Location: main building, near the Library

Klamath-Trinity campus
- Phone: 707-476-4280

Student Support Services

Good information and clear communication about your needs will help you be successful. Please let your instructor know about any specific challenges or technology limitations that might affect your participation in class. College of the Redwoods wants every student to be successful.

The following online resources are available to support your success as a student:

CR Online Learning Support

Tech support, laptop loans, guides to using Canvas, installing Office 365 for free, and more.

[Library Articles & Databases](#)

Find the best library databases for your research.

[Online Tutoring Resources](#)

Participate in tutoring over Zoom.

To learn more about the resources available to you, click on a title bar below, or click the down arrow to expand them all.

Klamath-Trinity students can contact the CR Klamath-Trinity Office for specific information about student support services at 530-625-4821.

Community College Student Health and Wellness

National Suicide Prevention Lifeline

If you are in distress or are with someone at risk right now, call or text the National Suicide Prevention Lifeline.

Call the National Suicide Prevention Lifeline
1-800-273-TALK (8255)

Text the National Suicide Prevention Lifeline
741-741

Timely Care

When you're not feeling well physically or distressed mentally, Timely Care can offer the help you're looking for in just a few quick taps. Students can schedule an appointment anytime via phone, video, and chat. [Log in or set up an account with Timely Care](#).

Mental Health Counseling

Students should text, email, or fax Shawna Bell directly for scheduling and/or services.

Text: 707-496-2856
Email: shawnabmft@gmail.com
Fax and voicemail: 707-237-2318

Wellness Central

Resources, tools, and trainings regarding health, mental health, wellness, basic needs and more designed for California community college students, faculty and staff are available on the California Community Colleges [Wellness Central](#).

Basic Needs Center

Basic Needs Center provides for the health and safety of students by providing access to healthy food, financial resources, and referrals to safe and secure housing. Submit a request for services and information.

Basic Needs Center contact info
- Phone: 707-476-4153
- Email: the-grove@redwoods.edu

Learning Resource Center

The Learning Resource Center includes the following resources for students:

Library Services

Introduction - Library Services for Students - LibGuides at College of the Redwoods promotes information literacy and provides organized information resources.

Multicultural and Equity Center (MCE)

The Multicultural and Equity Center is a dynamic and inclusive place that supports all students in their academic and personal journeys at the college. We do this by creating community, home away from home, and a safe place for cultural expression, cross-cultural learning, access to college and dignity resources, and social justice work opportunities. The MEC is committed to retention and student success by offering activities related to leadership development, student connectedness and student equity. We are a student-centered program that fosters respect for all people.

Academic Support Center

The Academic Support Center offers tutoring and test proctoring for CR students.

Student Tech Help

Technical Support provides students with assistance around a variety of tech problems.

Extended Opportunity Programs and Services (EOPS)

EOPS/CARE (EOPS) provides services to eligible income disadvantaged students including: textbook awards, grants, career academic and personal counseling, transportation assistance, tutoring, laptop, calculator and textbook loans, priority registration, graduation cap and gown, workshops, and more!

TRiO Student Success Program

The TRiO Student Support Services Program provides eligible students with a variety of services

including academic advising, career assessments, assistance with transfer, and peer mentoring. Students can apply for the program with the Eureka TRiO office or the Del Norte TRiO office.

Veterans Resource Center

The Veterans Resource Center supports and facilitates academic success for Active Duty Military, Veterans and Dependents attending CR through relational advising, mentorship, transitional assistance, and coordination of military and Veteran-specific resources.

CalWORKS

California Work Opportunity & Responsibility to Kids (CalWorks) provides supportive services to student parents with children under the age of 18, who are receiving cash assistance (TANF benefits), to become self-sufficient. Services include: transportation assistance, basic student supplies, tutoring, priority registration, laptop and calculator loans, career, academic, and personal counseling, and more!

Admissions deadlines & enrollment policies
Spring 2024 Dates

Date	To Remember
January 17	Last day to register for classes (day before the first class meeting)
January 18	Classes begin
January 20	Martin Luther King's Birthday (All Campuses Closed)
January 24	Last Day to add a class
January 31	Last Day to Drop & Receive a Refund
February 2	Last Day to Drop w/out a "W"
February 3	Census Date (20% of class)
February 14	Lincoln's Birthday (All Campuses Closed)
February 17	President's Day (All Campuses Closed)
March 6	Last Day to Petition to Graduate & Petition for Certificate
March 17 - 22	Spring Break (No Classes)
March 28	Last Day for Student/Faculty Withdrawal
March 31	Cesar Chavez Day (All Campuses Closed)

Date	To Remember
May 10 - 16	Final Examinations
May 16	Last Day to File P/NP Option
May 16	Semester Ends
May 23	Grades Due
May 26	Memorial Day (All Campuses Closed)
May 30	Grades Available for Transcript Release

Academic dishonesty

In the academic community, the high value placed on truth implies a corresponding intolerance of scholastic dishonesty. In cases involving academic dishonesty, determination of the grade and of the student's status in the course is left primarily to the discretion of the faculty member. In such cases, where the instructor determines that a student has demonstrated academic dishonesty, the student may receive a failing grade for the assignment and/or exam and may be reported to the Chief Student Services Officer or designee. The Student Code of Conduct (AP 5500) is available on the College of the Redwoods website. Additional information about the rights and responsibilities of students, Board policies, and administrative procedures is located in the 2024-2025 College Catalog and CR Board and Administrative Policies.

AI Use Class Policy

Recent advancements in generative artificial intelligence (AI) have made large language models such as ChatGPT and Google's Bard widely available. However, overuse of these tools in this class can undermine your learning and curtail the development of your critical and creative thinking skills. In addition, AI outputs are often unreliable and frequently subject to bias. For these reasons, the policy of this class is that AI cannot be used at any point in the completion of class assignments, including discussion posts. Any or all of your assignment submissions and discussion posts may be screened by AI detection software, but the real penalty for AI misuse is that you will miss out on an opportunity to learn.

Disruptive Behavior

Student behavior or speech that disrupts the instructional setting will not be tolerated. Disruptive conduct may include, but is not limited to: unwarranted interruptions; failure to adhere to instructor's directions; vulgar or obscene language; slurs or other forms of intimidation; and physically or verbally abusive behavior. In such cases where the instructor determines that a student has disrupted the educational process, a disruptive student may be temporarily removed from class. In addition, the student may be reported to the Chief Student Services Officer or designee. Additional information

about the rights and responsibilities of students, Board policies, and administrative procedures is located in the [2024-2025 College Catalog](#) and [CR Board and Administrative Policies](#).

Inclusive Language in the Classroom

College of the Redwoods aspires to create a learning environment in which all people feel comfortable in contributing their perspectives to classroom discussions. It therefore encourages instructors and students to use language that is inclusive and respectful.

Canvas Information

Log into Canvas at [My CR Portal](#)
For help logging in to Canvas and general tech help, visit [Canvas Support Home](#)
Once you're logged in to Canvas, you click on the Help icon on the left menu
Canvas online orientation workshop: [Canvas Student Orientation Course](#)

Setting Your Preferred Name and Pronouns in Canvas

Students have the ability to display personal pronouns and an alternate first name in Canvas. Students may change their pronouns on their own in Canvas (Account :: Settings :: Edit Settings). To request a change to your preferred list name, contact [Admissions and Records](#). Your Preferred Name will only be listed in Canvas; this does not change your legal name in our records. See the [Student Information Update form-2022.pdf](#).

Course Outline and Objectives

Course Objectives

- Students should be able to define and use key terms and concepts related to forest health.
- Students should be able to recognize and describe the common tools and techniques for managing forest health problems.
- Students should be able to discuss the organizations and structures responsible for and the regulation of forest health problems.
- Students should be able to recognize common pests and diseases affecting regional forests and discuss management options.
- Students should be able to apply the concepts of Integrated Pest Management to maintain forest health.
- Students should be able to discuss the ecology of forest pests and the different forest types they occur in.

Course Outline

Concepts: What terms and ideas will students need to understand and be conversant with as they demonstrate course outcomes? Each concept should be numbered.
1. Forest health concepts and classifications.
A. Abiotic pests (environmental, mechanical, chemical, etc.).
B. Vascular plant pests (weeds, mistletoes, etc.).
C. Pests of fruits of forest trees (seed weevils, etc..).

D. Virus infections of forest trees.
E. Phytopathogens (fungi, bacteria, etc.).
F. Invertebrate pests (insects, arachnids, etc.).
G. Vertebrate pests (deer, bear, beaver, etc..).
H. Forest nursery pests.
2. Integrated pest management.
A. Life history characteristics.
B. Tree vigor and ecosystem health.
C. Mechanical and chemical treatments.
3. Interactions in ecosystems.
A. Difference in forest types and forest pests.
B. Climate change impacts on forest health.
4. Pest complexes (including anthropogenic injuries on trees).
A. Additive and multiplicative impacts on multiple stresses.
B. Isolation and treatment of causes.
C. Cumulative effects.
5. Pest management strategies and decision-making.
A. Elements of costs, logistics, and environmental impact.
B. Limitations on tools and techniques in sensitive environments.
6. Pest management regulatory frameworks.
A. Federal rules and regulations.
B. Federal regulatory agencies.
C. State Agencies and rules.

Emergency Procedures / Everbridge

College of the Redwoods has implemented an emergency alert system called Everbridge. In the event of an emergency on campus you will receive an alert through your personal email and/or phones. Registration is not necessary in order to receive emergency alerts. Check to make sure your contact information is up-to-date by logging into WebAdvisor and selecting 'Students' then 'Academic Profile' then 'Current Information Update.'

Please contact Public Safety at 707-476-4112 or campus-safety@redwoods.edu if you have any questions. For more information visit Campus Safety. Please review the EurekaEmergencyMap_S24.pdf for campus evacuation sites, including the closet site to this classroom (posted by the exit of each room).

In an emergency that requires an evacuation of the building anywhere in the District:

> Be aware of all marked exits from your area and building
> Once outside, move to the nearest evacuation point outside your building
> Keep streets and walkways clear for emergency vehicles and personnel

Do not leave campus, unless it has been deemed safe by the campus authorities.

To learn more about campus-specific Emergency Procedures, click on a title bar below, or click the down arrow to expand them all.