



Course Information

Introduction to Forestry and Natural Resources

Semester & Year: Spring 2024

Course ID & Section #: FNR-1-E6177 (056177)

Instructor's name: Valerie Elder

Day/Time of required meetings: Lecture- Tuesdays 10:05AM - 11:10AM, Lab: Tuesdays 11:40AM - 02:50PM

Location: AT 127

Number of proctored exams:0

Course units:3



Instructor Contact Information

Office location: AT 134 or *Online: ZOOM*

Office hours: Tuesday/Thursday mornings 9-10 AM

valerie-elder@redwoods.edu (<mailto:Valerie-elder@redwoods.edu>) or message in pronto.

Pronto is usually the fastest way to get ahold of me, but I strive to respond in 24 hours M-F.

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Catalog Description

An introduction to forest and natural resource issues and management. The lectures and discussion cover three general areas: goods and services derived from forests; basic management strategies for natural resources; and the development and application of relevant policies and regulations, including historical perspectives. Weekly field exercises introduce students to basic techniques for field work and how different management approaches are applied in the woods.



Course Student Learning Outcomes

1. Describe the goods, services, and benefits derived from utilizing natural resources.
2. Explain the basic components of forest ecosystems and use critical thinking to determine how management affects these ecosystems.
3. Discuss the historic, economic, and political framework of natural resource utilization.
4. Lab Specific Outcome: Demonstrate safety protocols and common field techniques used in natural resources at a basic level.



Prerequisites / Co-requisites / Recommended Preparation

Students will be required to have access to adequate computer and internet access and familiarity with basic computer skills. Examples of this include:

- navigate a class in Canvas
- receive, respond and regularly check) messages sent to your CR email account
- receive, respond and regularly check) announcements sent in Canvas
- download and upload files in Canvas assignments
- use a phone or digital camera (or webcam) to upload “selfies” to your online lab notebook
- use a word processor program (such as Microsoft Word or Google Docs)
- use a webcam or a phone to record and upload videos in Canvas



- use Zoom, email and canvas discussion boards to communicate with peers and instructor



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, bipolar disorder, and ADHD
- 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
- A learning disability (e.g., dyslexia, reading comprehension), intellectual disability, autism, or acquired brain injury
- Vision, hearing, or mobility conditions

Available services include extended test time, quiet testing environments, academic assistance and tutoring through the [LIGHT Center](https://www.redwoods.edu/dsps/DSPS-Home/LIGHT-Center)  (<https://www.redwoods.edu/dsps/DSPS-Home/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 and service animals, 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 [Disability Services and Programs for Students \(DSPS\)](https://www.redwoods.edu/dsps/)  (<https://www.redwoods.edu/dsps/>). If you are unsure whether you qualify, please contact DSPS for a consultation: dsps@redwoods.edu. (<mailto:dsps@redwoods.edu>)

Eureka: 707-476-4280, Student Services Building, first floor

Del Norte: 707-465-2324, Main Building, near the library

Klamath-Trinity: 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 \(https://www.redwoods.edu/online\)](https://www.redwoods.edu/online) (Comprehensive information for online students)
- [Library Articles & Databases \(https://redwoods.libguides.com/az.php\)](https://redwoods.libguides.com/az.php)
- [Canvas help and tutorials \(https://webapps.redwoods.edu/tutorial/\)](https://webapps.redwoods.edu/tutorial/)
- [Online Student Handbook \(https://www.redwoods.edu/Portals/72/Documents/Students/CR-OnlineStudentHandbook.pdf\)](https://www.redwoods.edu/Portals/72/Documents/Students/CR-OnlineStudentHandbook.pdf)
- [Online Tutoring ResourcesLinks to an external site. \(https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fredwoods.libguides.com%2FTutoring%2FOnline&data=05%7C01%7CAmber-Atkins%40Redwoods.edu%7Cbcfe068f8aca4941dde408daee9eaea9%7C8c90edff0a7243a795683eb28b3c8f82%7C0%7C0%7C638084662554822741%7CUnknown%7CTWFpbGZsb3d8eyJWlloiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6Ikl1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=IPQnFsRsujkzGkSNI2eqR4ofcCFQuSN6PcfuoYRnp5s%3D&reserved=0\)](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fredwoods.libguides.com%2FTutoring%2FOnline&data=05%7C01%7CAmber-Atkins%40Redwoods.edu%7Cbcfe068f8aca4941dde408daee9eaea9%7C8c90edff0a7243a795683eb28b3c8f82%7C0%7C0%7C638084662554822741%7CUnknown%7CTWFpbGZsb3d8eyJWlloiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTiI6Ikl1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=IPQnFsRsujkzGkSNI2eqR4ofcCFQuSN6PcfuoYRnp5s%3D&reserved=0)

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 KT Office for specific information about student support services at 530-625-4821



Community College Student Health and Wellness

If you are in distress or are with someone at risk right now, call the National Suicide Prevention Lifeline at 1-800-273-TALK (8255) or TEXT 741-741

Timely Care

When you're feeling under the weather physically or distressed mentally, you can find the help you're looking for in just a few quick taps. Students can schedule an appointment anytime via phone, video, and chat. Visit [TimelyCARE](https://www.timelycare.com/redwoods)  [. \(https://www.timelycare.com/redwoods\)](https://www.timelycare.com/redwoods).

Mental Health Counseling

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


Contact info

Text: 707-496-2856


Email: shawnabmft@gmail.com (<mailto:shawnabmft@gmail.com>)

Fax: 707-237-2318 (voicemail can be left via fax)



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](https://cvc.edu/wellness/)  (<https://cvc.edu/wellness/>).

Counseling

[Counseling & Advising](https://www.redwoods.edu/counseling/)  (<https://www.redwoods.edu/counseling/>) can assist students in need of academic advising and professional counseling services. Visit the Welcome Center in the lower level of the student services building Monday –Friday 9am – 4pm (during the semester, summer hours may vary).

Basic Needs Center

[The Basic Needs Center](https://www.redwoods.edu/student-services/Home/Basic-Needs)  (<https://www.redwoods.edu/student-services/Home/Basic-Needs>) provides for the health and safety of students by providing access to healthy food, financial resources, and referrals to safe and secure housing. Students can also [submit a request for services and information](https://cm.maxient.com/reportingform.php?Redwoods&layout_id=7)  (https://cm.maxient.com/reportingform.php?Redwoods&layout_id=7) online.

Contact info

Phone: 707-476-4153

Email: the-grove@redwoods.edu

Learning Resource Center

Learning Resource Center includes the following resources for students:

- [Library Services](https://www.redwoods.edu/library/) (<https://www.redwoods.edu/library/>) to promote information literacy and provide organized information resources.

- [Multicultural & Diversity Center \(https://www.redwoods.edu/student-services/Home/Multicultural-and-Diversity-Center\)](https://www.redwoods.edu/student-services/Home/Multicultural-and-Diversity-Center)
- [Academic Support Center \(https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.redwoods.edu%2Fasc%2F&data=05%7C01%7CAmber-Atkins%40Redwoods.edu%7Cbcfe068f8aca4941dde408daee9eaea9%7C8c90edff0a7243a795683eb28b3c8f82%7C0%7C0%7C638084662554822741%7CUnknown%7CTWFpbGZsb3d8eyJWljiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTil6lk1haWwiLCJXVCi6Mn0%3D%7C3000%7C%7C%7C&sdata=Riz9ZxeBWEWFm69aT5OdldMsHyFsoonUcvZJLf5yQ1l%3D&reserved=0\)](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.redwoods.edu%2Fasc%2F&data=05%7C01%7CAmber-Atkins%40Redwoods.edu%7Cbcfe068f8aca4941dde408daee9eaea9%7C8c90edff0a7243a795683eb28b3c8f82%7C0%7C0%7C638084662554822741%7CUnknown%7CTWFpbGZsb3d8eyJWljiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTil6lk1haWwiLCJXVCi6Mn0%3D%7C3000%7C%7C%7C&sdata=Riz9ZxeBWEWFm69aT5OdldMsHyFsoonUcvZJLf5yQ1l%3D&reserved=0)) – offers tutoring and test proctoring for CR students.
- [Student Tech Help \(https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.redwoods.edu%2Fsts&data=05%7C01%7CAmber-Atkins%40Redwoods.edu%7Cbcfe068f8aca4941dde408daee9eaea9%7C8c90edff0a7243a795683eb28b3c8f82%7C0%7C0%7C638084662554822741%7CUnknown%7CTWFpbGZsb3d8eyJWljiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTil6lk1haWwiLCJXVCi6Mn0%3D%7C3000%7C%7C%7C&sdata=%2FJ23kPg%2FGw0UgR98LB1fPf7GIk7JzRZUBESsb1Vzf%2BQ%3D&reserved=0\)](https://nam12.safelinks.protection.outlook.com/?url=https%3A%2F%2Fwww.redwoods.edu%2Fsts&data=05%7C01%7CAmber-Atkins%40Redwoods.edu%7Cbcfe068f8aca4941dde408daee9eaea9%7C8c90edff0a7243a795683eb28b3c8f82%7C0%7C0%7C638084662554822741%7CUnknown%7CTWFpbGZsb3d8eyJWljiMC4wLjAwMDAiLCJQIjoiV2luMzliLCJBTil6lk1haWwiLCJXVCi6Mn0%3D%7C3000%7C%7C%7C&sdata=%2FJ23kPg%2FGw0UgR98LB1fPf7GIk7JzRZUBESsb1Vzf%2BQ%3D&reserved=0)) – provides students with assistance around a variety of tech problems.

Extended Opportunity Programs & Services (EOPS) ▲

[Extended Opportunity Programs & Services \(EOPS\)](https://www.redwoods.edu/student-services/Home/EOPS) ➡

[\(https://www.redwoods.edu/student-services/Home/EOPS\)](https://www.redwoods.edu/student-services/Home/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 Success Program provides eligible students with a variety of services including trips to 4-year universities, career assessments, and peer mentoring. Students can apply for the program in [Eureka \(https://www.redwoods.edu/trio/eureka\)](https://www.redwoods.edu/trio/eureka) or in [Del Norte \(https://www.redwoods.edu/delnorte/TRiO\)](https://www.redwoods.edu/delnorte/TRiO).

Veterans Resource Center ▲

The [Veteran's Resource Center \(https://www.redwoods.edu/student-services/Home/Vets\)](https://www.redwoods.edu/student-services/Home/Vets) 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

CalWORKs  (<https://www.redwoods.edu/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!



Evaluation & Grading Policy

CR Grading Scale: 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

Assignments are listed in Canvas modules and are **subject to change**. Changes will be announced in class, and posted in Canvas – due dates in Canvas should be considered the most current. Additional assignment due dates will be announced when the assignments are given. Most assignments will be turned in via canvas. You are responsible for knowing when your work is due.

Late Work: Assignments in canvas has a **due date**- when you are expected to turn it in and a **turn-in date** the last possible date you can submit an assignment. If you cannot turn in an assignment by the due date and want to submit by the turn-in date you must email me before the assignment is due and outline your plan for submitting the assignment by the turn-in date. Otherwise, 10% per day will be deducted from your assignment grade. After using two turn-in date grace periods late assignments will be deducted 10% per day.

Assignments will be graded typically within one week of submission, depending on instructor workload. You will be able to track your grade throughout the course via the Grades section in Canvas.

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. If you stop participating in class after week 10 you will be graded for participation and may receive an F.



Fake Student Policy

Fraudulent enrollments are on the rise. To ensure that real students can get seats in the class, no shows will be dropped in the middle of the first week of classes. Also, if you are suspected of being a bot, you will be dropped from the class. If you have been dropped but are a real student, please contact your instructor right away to be reinstated in the class.






Spring 2024 Dates

January 12	Last day to register for classes (day before the first class meeting)
January 13	Classes begin
January 15	Martin Luther King, Jr.'s Birthday Holiday (District-wide closure)
January 19	Last day to add a class
January 26	Last day to drop without a "W" and receive a refund
January 29	Census Date (20% of class)
February 16	Lincoln's Birthday Holiday (District-wide closure)
February 19	President's Day Holiday (District-wide closure)
March 7	Last day to petition to graduate
March 29	Last day for student initiated withdrawal (62.5% of class)

March 29	Last day for faculty initiated withdrawal (62.5% of class)
March 11-16	Spring break (no classes)
April 1	District-wide closure (Cesar Chavez Day) .
May 4-10	Final Examinations
May 10	Last day to file for P/NP Option
May 10	Semester Ends
May 17	Grades due
May 24	Grades available



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](#)  <https://go.boarddocs.com/ca/redwoods/Board.nsf/Public?open&id=policies>) 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 [College Catalog](#)  <https://www.redwoods.edu/catalog> and on the [College of the Redwoods website](#)  <https://www.redwoods.edu/>.






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. In Forestry and Natural Resources, we so often reference on the ground conditions to ensure environmental protections- so critical thinking is essential!



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. The Student Code of Conduct ([AP 5500](#) ) (<https://go.boarddocs.com/ca/redwoods/Board.nsf/Public?open&id=policies>) 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 [College Catalog](#) ) (<https://www.redwoods.edu/catalog>) and on the [College of the Redwoods website](#) ) (<https://www.redwoods.edu/>).



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

Canvas Information

Log into Canvas at [My CR Portal](http://www.redwoods.edu/sso)  (<http://www.redwoods.edu/sso>)

For help logging in to Canvas, visit [My CR Portal](http://www.redwoods.edu/sso).  (<http://www.redwoods.edu/sso>)



For help with Canvas once you're logged in, click on the Help icon on the left menu.

For tech help, email its@redwoods.edu (<mailto:its@redwoods.edu>) or call 707-476-4160

Canvas online orientation workshop: [Canvas Student Orientation Course \(instructure.com\)](https://redwoods.instructure.com/courses/6781) (<https://redwoods.instructure.com/courses/6781>)

Setting Your Preferred Name in Canvas


Students have the ability to have an alternate first name and pronouns to appear in Canvas.


Contact [Admissions & Records](https://www.redwoods.edu/admissions/Forms)  (<https://www.redwoods.edu/admissions/Forms>) to request a change to your preferred first name and pronoun. 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](https://www.redwoods.edu/Portals/28/A.R.Forms.Docs/Miscellaneous/Student%20Information%20Update.pdf) 

(<https://www.redwoods.edu/Portals/28/A.R.Forms.Docs/Miscellaneous/Student%20Information%20Update.pdf>).



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](https://webadvisor.redwoods.edu)  (<https://webadvisor.redwoods.edu>) and selecting 'Students' then 'Academic Profile' then 'Current Information Update.'

Please contact Public Safety at 707-476-4112 or security@redwoods.edu (<mailto:security@redwoods.edu>) if you have any questions. For more information see the [Redwoods Public Safety Page](https://www.redwoods.edu/publicsafety)  (<https://www.redwoods.edu/publicsafety>).

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.



Del Norte Campus Emergency Procedures ▲

Please review the [Crescent City campus emergency map](https://www.redwoods.edu/Portals/70/pdfs/DN%20CampusSafetyMap_010819-2.pdf)  (https://www.redwoods.edu/Portals/70/pdfs/DN%20CampusSafetyMap_010819-2.pdf) for campus evacuation sites, including the closest site to this classroom (posted by the exit of each room). For more information, see the [Redwoods Public Safety Page](https://www.redwoods.edu/publicsafety)  (<https://www.redwoods.edu/publicsafety>).

Eureka Campus Emergency Procedures ▲

Please review the [campus emergency map](https://internal.redwoods.edu/Portals/180/Maps%20and%20Phone%20Lists/EurekaMaps_Emergency_F19.pdf?ver=2020-02-18-112433-920×tamp=1628553718609)  (https://internal.redwoods.edu/Portals/180/Maps%20and%20Phone%20Lists/EurekaMaps_Emergency_F19.pdf?ver=2020-02-18-112433-920×tamp=1628553718609) for evacuation sites, including the closest site to this classroom (posted by the exit of each room). For more information on Public Safety go to the [CR Police Department Public Safety](https://www.redwoods.edu/publicsafety)  (<https://www.redwoods.edu/publicsafety>). It is the responsibility of College of the Redwoods to protect life and property from the effects of emergencies within its own jurisdiction.

In the event of an emergency:

1. Evaluate the impact the emergency has on your activity/operation and take appropriate action
2. Dial 911, to notify local agency support such as law enforcement or fire services.
3. Notify Public Safety 707-476-4111 and inform them of the situation, with as much relevant information as possible.
4. Public Safety shall relay threat information, warnings, and alerts through the Everbridge emergency alert system, Public address system, and when possible, updates on the college website, to ensure the school community is notified.
5. Follow established procedures for the specific emergency as outlined in the College of the Redwoods Emergency Procedure Booklet, (evacuation to a safe zone, shelter in place, lockdown, assist others if possible, cooperate with First Responders, etc.).

6. If safe to do so, notify key administrators, departments, and personnel.
7. Do not leave campus, unless it is necessary to preserve life and / or has been deemed safe by the person in command.

Klamath-Trinity Campus Emergency Procedures

Please review the responsibilities of, and procedures used by, the College of the Redwoods, KlamathTrinity Instructional Site (KTIS) to communicate to faculty, staff, students and the general public during an emergency. It is the responsibility of College of the Redwoods, Klamath-Trinity Instructional Site (KTIS) to protect life and property from the effects of emergency situations within its own jurisdiction.

In the event of an emergency, communication shall be the responsibility of the district employees on scene:

1. Dial 911, to notify local agency support such as law enforcement or fire services.
2. If safe to do so, notify key administrators, departments, and personnel.
3. If safe to do so, personnel shall relay threat information, warnings, to ensure the school community is notified.
4. Contact 530-625-4821 to notify of situation.
5. Contact Hoopa Tribal Education Administration office 530-625-4413
6. Notify Public Safety 707-476-4111.

In the even of an emergency, the responsible district employee on the scene will:

1. Follow established procedures for the specific emergency as outlined in the College of the Redwoods Emergency Procedure Booklet.
2. Lock all doors and turn off lights if in lockdown due to an active shooter or similar emergency.
3. Close all window curtains.
4. Get all inside to safe location Kitchen area is best internal location.
5. If a police officer or higher official arrives, they will assume command.
6. Wait until notice of all is clear before unlocking doors.
7. If safe to do so, move to the nearest evacuation point outside building (Pooky's Park), directly behind the Hoopa Tribal Education Building.
8. Do not leave site, unless it has been deemed safe by the person in command.
Student Support
Services (required for online classes)



Course Objectives

1. Historical uses of forests and natural resources and the relationship of forest resources to the economic development of the U.S.
2. State and Federal policies and laws.
3. Wood and non-wood commercial products and considerations.
4. Wildlife resources, commercial vs. non-commercial and consumptive vs. non-consumptive utilization.
5. Water resources and links to water quality and demands including groundwater.
6. Changing recreational uses and the problems of wilderness management.
7. Current societal uses of natural resources and their values.
8. Silviculture and Ecosystem management.
9. Wildland fire under changing demographic patterns.
10. Forest health and social and economic considerations.
11. Economics and decision making in natural resources.
12. Livestock grazing on forests and rangelands.



Course Outline

1. Importance of natural resources to historic development in the U.S.
2. Conflicting social demands on natural resources.
3. Ecosystem management concepts.
4. Safety in the forest working environment.
5. Wildlife species, habitat, and management, including Endangered Species and the politics and regulations around wildlife.
6. Watershed descriptions, processes, and management.
7. Recreation management concepts and terms including the psychology of visitor management.
8. Range ecology and management and socio-economic controversies around range management.
9. Silviculture terms and application.
10. Wildland fire concepts, the problems of the wildland-urban interface, and wildland fire careers.
11. Basic economic theory and policy implications in natural resource decision making.

Lab Outline

Concepts:

1. The forest work environment.
2. Quality assurance of field data.

Themes and Issues

1. Basic field safety protocols including appropriate personal protective equipment (PPE).

Skills:

1. Collecting and recording field data.
 2. Use of basic field equipment (e.g. hand compass, Biltmore stick, GPS).
 3. Proper recognition and use of personal protective equipment (PPE).
 4. Recognizing safety risks in the forest.
- 1.