

NR 1 INTRODUCTION TO FORESTRY

Syllabus

Course 52344 for spring 2021

Lecture Tuesday 3 - 4:50 Room FEM 7

Laboratory Thursday 1 - 3:50 PM Room FEM 7

Plus Some Required Activities and Field Trips

Instructor: Darcy Brown

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Office Hours

Available upon email request

**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 Objectives

1. Use comparisons of texture, density, color and scent to identify wood species.
2. Identify 30 forestry tools.
3. Distinguish characteristics resulting in defects of wood.
4. Construct a list of State and Federal agencies and explain their responsibilities in resource management.
5. Determine land area in acres by pacing.
6. Determine common land and timber measurements.
7. Compare and contrast conservation versus preservation management practices.
8. Examine the effects of historical forest policy and regulations on the resources.

CSLOs

NR-1 SLO1: Compare the difference between multiple use and preservation management.

NR-1 SLO2: Explain specified public and private timber resource entities' authority in the management of natural resources in the United States.

NR-1 SLO3: Prepare equipment for safe operation to fell and buck trees.



Text Book

Pattern of the Land: The Search for Home in an Altered Landscape, Eileen Apperson, iUniverse, March 13, 2012, ISBN-13: 9781469782218. **(Required)**

Introduction to Forests and Renewable Resources, latest Edition, G. Sharpe, McGraw Hill. (Recommended)

The Greatest Good, A Centennial History. James Lewis, Forest History Society. ISBN 9780890300657, www.foresthistory.org. (Recommended)

The Dictionary of Forestry, 2nd edition, Robert Deal. ISBN 978-0-939970-63-6. (Available on the Society of American Foresters website: www.eforester.org.) (Recommended)

Attendance

You should come to every assigned class whether face-to-face or virtual, and be in there on time. Arrival after roll is taken will be considered as a tardy. Two tardies will count as one absence. The success of this or any other course depends on the presence and active participation of each student. It is the responsibility of the student to check on class meeting

changes for the following week if a class session is missed. Contact the instructor in the event of an absence.

The responsibility to drop the course for any reason, including lack of attendance, lies with the student. Late work should be made up within one week. Any assignment submitted after the due date will have 10% of the possible score automatically deducted.

Cancelled Class Policy

If classes must be cancelled the instructor will attempt to post the announcement on the course electronic media site (CANVAS). A notice will be posted on the door of the classroom. Be aware that schedule modifications and field trips may be announced during class by the instructor. It is the responsibility of the student to be present during classes and pay attention to such announcements and to check announcements on CANVAS daily.

Drop Deadline

Drop deadline is January 29 to avoid a “W”.

Laboratory Clothing and Safety Equipment

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, or outside near other people. You are required to wear facial coverings during outdoor 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.

While you are working with equipment in an outdoor setting wear long pants and long sleeve shirts (also warm clothing or rain gear when appropriate). You must also have a hardhat, leather gloves, safety glasses, and boots (hiking boots or fire boots are acceptable). This is for protection while working with equipment and vegetation. This personal safety equipment will be required during laboratory exercises.

You must have a hardhat, gloves, safety glasses, boots and hearing protection.
If you do not have safety equipment for labs you will not be allowed to participate and you will receive no credit.

Reedley College Policies

To receive a grade for this course, students must complete all assigned work. Cheating or plagiarism will result in removal from the class and you will receive an “F”.

Please be courteous to everyone in class. Courtesy includes an honest effort at sensitivity to others’ individual characteristics or known triggers.

Please place cell phones on silent mode in class. No use of tobacco products is allowed in class or during laboratory and field trip exercises.

Accommodations

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.

Grades

Exams = 25%

Examination I 10%

Examination II 15%

Final Exam = 20%

Field Work = 15%

Timber Cruising 10%

Land Measurement 5%

Skill Demonstrations = 10%

Tool Use Field Demonstration 5%

Map Use 5%

Essays = 20%

History Report 10%

Land Manager Objectives Report 2%

Professional Organizations Report 2%

Resource Agency Structure Report 2%

Parks and Forests Maps 2%

Summary of Management Philosophy 2%

Presentations = 10%

Forest Practice Rules Exercise 5%

Dendrology Exercise 5%

Total = 100%

Possible 5% extra credit for outstanding class participation.

Cumulative course grade will be based upon the following

A	90 – 100%
B	80 – 89
C	70 – 79
D	50 – 69
F	49 or less

TENTATIVE SCHEDULE (SUBJECT TO CHANGE UPON NOTICE)

	Lecture	Laboratory	ASSIGNMENT DUE by THIS DATE
WEEK 1 1/12 & 1/14	Overview of NR Program/NR Degree Planning and Success/PPE; Forests and Parks in California and Oregon	Tool identification; Tragedy of the Commons exercise	Obtain required safety equipment/PPE
WEEK 2 1/19 & 1/21	History of natural resources management ONLINE	Presentation of "The Greatest Good" in Forum Hall 1 6pm – 8pm (No regular lab meeting)	Parks and Forests Maps Due in CANVAS by 3pm on 1/19
WEEK 3 1/26 & 1/28	Resource Agency Structure and Function ONLINE	Job Hazard Analysis and Safety; Chainsaw Use ONLINE	
WEEK 4 2/2 & 2/4	Professional Organizations; Private Sector Natural Resources Consultants ONLINE	Outdoor Recreation; Conflict Resolution; Professionalism ONLINE	Resources Agency Structure Report due in CANVAS by 3pm on 2/2
WEEK 5 2/9 & 2/11	Fire; Pests; Disease ONLINE	Watershed Restoration (on campus field trip) – Safety equipment required	Professional Organizations Report due in CANVAS by 3pm on 2/9
WEEK 6 2/16 & 2/18	Forest Ecology; Conservation strategies; Trusts/Easements; Resource law enforcement ONLINE	Scientific Journals and Peer Reviewed Research; Virtual library tour ONLINE	
WEEK 7 2/23 & 2/25	Employment opportunities in forestry and natural resource management ONLINE	<i>Exam Preview</i> Presentation by Kip Van de Water, Klamath NF; Mapping resource management Objectives Across CA Forest Land ONLINE	Summary of land management philosophy due in CANVAS by 3pm on 2/23
WEEK 8 3/2 & 3/4	Exam I Online	Land and Resource Measurement (in the field)	Land manager objectives report due in CANVAS by 3pm on 3/2
WEEK 9 3/9 & 3/11	Timber Production; They Felled the Giants Documentary ONLINE	Units Conversion; Legal Land Descriptions; Topographic Maps; Latitude, Longitude, UTM	History Report due in CANVAS by 11:59pm on 3/12
WEEK 10 3/16 & 3/18	Parliamentary Procedure; Public Hearings/Comment Periods ONLINE	Compass Use (in the field)	
WEEK 11 3/23 & 3/25	California Forest Practice Rules	Forest Practice Rules Exercise (in the field)	
WEEK 12 4/6 & 4/8	<i>Exam preview</i> Timber Cruising	Timber Cruising (in the field) – Safety equipment required	Forest Practice Rules Exercise due in CANVAS by 3pm on 4/6
WEEK 13 4/13 & 4/15	Exam II Online	Exam Review; Lumber Characteristics; Sawmills	
WEEK 14 4/20 & 4/22	Renewable Energy; Water Allocation	Plant Identification	
WEEK 15 4/27 & 4/29	Utility Forestry, Aboriculture, and Urban Forestry	Field Trip – details TBA	
WEEK 16 5/4 & 5/6	Range Management; Soils	Backpacking; Wilderness safety	
WEEK 17 5/11 & 5/13	<i>Final Exam Preparation</i> ONLINE	Forest Products	
WEEK 18 5/18	Final Exam	No Lab Class	

TOOL IDENTIFICATION

LABORATORY

ABS pipe	drip torch	Nomex fire clothing	splitting maul
allen wrench	ear protectors	oxy/acetylene torch	splitting wedge
anemometer	engineer's tape	OSB (oriented strand board)	square (carpenter/framing)
back pump	falling axe	pack test vest	square point shovel
ball peen hammer	falling wedge	peavey	stereoscope
bench grinder	fire rake	pickaxe	"Super P"(ulaski)
bolt cutter	fire shelter	pitchfork	survey pins
bow saw	fire shovel	planimeter	survey stake
brush hook	fire swatter	plumb bob	table saw
cable hoist (grip hoist)	fixed radius plot tape	planting bar	tire lug nut
carpentry saw	flagging tape	plywood	tire lug wrench
chain tape	flat (bastard) file	phillips screwdriver	tree caliper
chainsaw	flat head screwdriver	pole saw	tree injector
chainsaw chain	forester's hand compass	post driver	tree marking gun
chainsaw chaps	fussee	power pruner	tree planting bag
chainsaw combination wrench (scrench)	galvanized pipe	pruning saw	tree planting bar
chainsaw guide bar	GPS receiver	Pulaski	tree/pole climbers/spurs
chainsaw file	hacksaw	PVC pipe	tool handle metal wedge
chainsaw file guide	hard hat	relaskop	tool handle wooden wedge
choker cable	hand shears	rhino tool	torx screw driver
claw hammer	hazel hoe	rock bar	vise-grip pliers
clinometer	hex bolt	rock rake	water filter
combi tool	hex nut	scaling stick	wedge prism
crosscut saw	hoedad	scoop shovel	weedeater
cruiser's stick (Biltmore stick)	increment borer	single-bit axe	wheel caliper
cruiser's axe	laser rangefinder	sledge hammer	wood chisel
diameter tape	level (bubble level)	sling psychrometer	wood rasp
double-bit axe	leveling rod	shovel handle rivet	2"x4" wooden board
log chain	log carrier/tongs	socket wrench	2"x6" wooden board
drill bit (twist drill)	logger's tape	soil auger	1"x12" wooden board
drill press	loppers/pruning shears	standard #2 shovel	Plywood
acetylene gas cutting torch	McLeod	wood planer	Oriented Strand Board OSB
	MIG welder	table saw	band saw
	stick welder		