

CREDIT COURSE OUTLINE

I. COVER PAGE

(1) Γ	NR 34	(2) CONSE	RVATION LAI	BOKATO	JKY	(3) 1	
Nun	nber			Title	;	Units	3
(4) Lecture / Lab Hours:		(8)Class	sification:				
	Course Hours						
		Weekly Lec hours:	0			Degree applicable:	X
		Weekly Lab hours:	54.00			Non-degree applicable:	
		Total Contact hours:	54.00			Basic skills:	
		hour(s) outside workhour(s) outside work.		(9)RC	Fulfills AS/AA	A degree requirement: (area)	
\vdash		(*) ********************************			General educat	tion category:	
(5)	Grading Basis:	Grading Scale Only	X		Major:		
Ť		Pass/No Pass option			Certificate of:		
		Pass/No Pass only			Certificate in:		
(6)	Advisories:	'					
(7)	Pre-requisites (re	equires C grade or better):		(10)CS		Baccalaureate:	X
	Corequisites:				peatable: (A cou e times)	rse may be repeated	0
				(12)C-I	D:		
				` /			Fall 2012
				Propose	ed Start Date:		Fall 2012
Ap		ion: vation techniques, basic ecolo One extended overnight field tr			efficiency, and	group study using basic scie	ntific methods.

II. COURSE OUTCOMES:

(Specify the learning skills the student demonstrates through completing the course and link critical thinking skills to specific course content and objectives.)

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

- I. Plan, observe, interact, and participate in activities directly related to the conservation of natural resources.
- II. Describe the impact of human activities on the environment and evaluate individual lifestyle choices in terms of natural resource use.
- III. Determine interrelationships between biotic and abiotic factors in an ecosystem.

III. COURSE OBJECTIVES:

(Specify major objectives in terms of the observable knowledge and/or skills to be attained.)

In the process of completing this course, students will:

- I. Evaluate each laboratory using basic scientific methods of inquiry.
- II. Gain experience working as a team to complete a project in the field related to natural resources.
- III. Identify the steps necessary to plan, organize and complete a restoration project.
- IV. Observe ecological processes and identify key components of natural chemical cycles.
- V. Distinguish processes that shaped the Sierra Nevada Mountain Range and local flora and fauna.
- VI. Evaluate causes and potential solutions to natural resource issues related to consumption and pollution.

IV. COURSE OUTLINE:

Lab Content:

Conservation projects will be chosen in alignment with students learning outcomes and objectives and may pertain to the following components of forest management:

- A. Scientific method
- B. Biotic Communities of the Sierra Nevada
- C. Soil and Soil Erosion
- D. Water Quality
- E. Forest Identification, Surveys

- F. Range Conditions
- G. Agriculture and Bioengineering
- H. Pesticides
- I. Wildlife Populations
- J. Fisheries
- K. Biodiversity
- L. Stream Restoration
- M. Recreation Use
- N. Population Pressures
- O. Pollution
- P. Man and Natural Resources
- Q. Local Environmental Issues

V. APPROPRIATE READINGS

Reading assignments may include but are not limited to the following:

- I. Sample Text Title:
 - 1. Recommended Wagner, Travis Environmental Science: Active Learning Laboratories and Applied POroblem Sets, Wiley and Sons, 2008,
- II. Other Readings

 . Global or international materials or concepts are appropriately included in this course
Multicultural materials and concepts are appropriately included in this course

If either line is checked, write a paragraph indicating specifically how global/international and/or multicultural materials and concepts relate to content outline and/or readings.

VI. METHODS TO MEASURE STUDENT ACHIEVEMENT AND DETERMINE GRADES:

Students in this course will be graded in at least one of the following four categories. Please check those appropriate. A degree applicable course must have a minimum of one response in category A, B, or C.

	A. Writing Check either 1 or 2 below				
	1. Substantial writing assignments are required. Check the appropriate boxes below and provide a written description in the space provided.				
X	2. Substantial writing assignments are NOT required. If this box is checked leave this section blank. For degree applicable courses you must complete category B and/or C.				
	a) essay exam(s)		d) written homework		
	b) term or other paper(s)		e) reading reports		
	c) laboratory report(s)		f) other (specify)		

Required assignments may include but are not limited to the following:

B. Problem Solving Computational or non-computational problem-solving demonstrations, including:		
a) exam(s) d) laboratory reports		
b) quizzes	X	e) field work
c) homework problems		f) other (specify):

Required assignments may include but are not limited to the following:

Determine methods to reduce siltation of streams

C. Skill demonstrations, including:			
a) class performance(s)			c) performance exams(s)
	b) field work	X	d) other (specify) Individual projects allow for various skills such as proper installation of an erosion control structure.

Required assignments may include but are not limited to the following:

Wrire a report of daily conservation activities.

D. Objective examinations including:		
a) multiple choice	d) completion	

b) true/false	X e) other (specify):						
0) 11 10 11 11 11	Short answer						
c) matching items							
methods fall within the following departmental g instructor. The instructor's syllabus must reflect t grades must be recorded on the final roster.)	guidelines; however, the final metho the criteria by which the student's gr ent are used, indicate here the approx						
For degree applicable courses, the adopted texts, contain college-level materials.	as listed in the college bookstore, o	or instructor-prepared materials have been certified to					
Validation Language Level (check where applicate Textbook	able):	College-Level Criteria Met YES NO X					
Reference materials Instructor-prepared materials Audio-visual materials		X X					
Indicate Method of evaluation: Used readability formulae (grade level 10 of Text is used in a college-level course Used grading provided by publisher Other: (please explain; relate to Skills Leve	<u>X</u>	-					
Computation Level (Eligible for MATH 101 level Content Breadth of ideas covered clearly meets college-lepresentation of content and/or exercises/projects Requires a variety of problem-solving strategies Requires independent thought and study Applies transferring knowledge and skills appropriate of Reading/Educational Materials Recommended - Wagner, Travis Environmental 2008,	level learning objectives of this cours: sincluding inductive and deductive appriately and efficiently to new situation	reasoning. XX					
Comments:							
This course requires special or addition This course requires special facilities: Forest or riparian land with permission	:						
Attached Files: NR 7 Corequisite Justification							
skills are listed as the outcomes from English 2. needed at the beginning of the target course and	252, 262, and Math 250. In the right	ility for English 125, 126, and Math 201. These hand column, list at least three major basic skills skills listed at the left.					
Check the appropriate spaces. Eligibility for Math 201 is advisory for	r the target course.						
Eligibility for English 126 is advisory							
Eligibility for English 125 is advisory	Eligibility for English 125 is advisory for the target course.						
If the reviewers determine that an advisory or a here, provide the required signatures, and forw curriculum committee.		t are necessary for success in the target course, stop iir, the appropriate associate dean, and the					

REQUISITES	
No requisites	

JUSTIFICATION OF LIMITATION ON ENROLLMENT

Enrollment in courses or blocks of courses may be limited based on performance, honors, or other performance based criteria. Be mindful of the disproportionate impact the limitation will have on specific groups of students. It is important to determine if the limitation will disproportionately keep under-represented students from enrolling in the course or block of courses.

Describe the reasons for limiting the enrollment.

Course Designator: NR 34				
Course Title(s): CONSERVATION LABORATORY				
Rationale for Limiting Enrollment:				