CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS
NEW COURSE PROPOSAL

DATE 12.17.06
PROGRAM AREA ENVIRONMENTAL SCIENCE AND RESOURCE MANAGEMENT

1. Catalog Description of the Course. [Follow accepted catalog format.]

Prefix ESRM Course# 352 Title THEORY AND PRACTICE OF ECOLOGICAL RESTORATION Units (3)
3 hours lecture per week
2 hours lecture per week

Prerequisites
Corequisites

Description Introduces the theory and practice of modern ecological restoration. Conceptual similarities in the approach to wetland, riparian, forest, grassland, and subtidal restoration efforts will be explored. Special attention will be given to failed restoration efforts, articulating the conditions leading to such failures, and minimum performance standards for successful projects.

Graded

Gen Ed
CR/NC
Repeatable for up to units

Categories
Lab Fee Required A - F
Optional (Student’s choice) Total Completions Allowed

Mission Based Learning Objectives: Interdisciplinary International Multicultural Service Learning

Title V Section 40404: Government US Constitution US History

2. Mode of Instruction.

<table>
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<tr>
<th>Component</th>
<th>Units</th>
<th>Hours per Unit</th>
<th>Benchmark Enrollment</th>
<th>Graded Component</th>
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<tr>
<td>Lecture</td>
<td>3</td>
<td>1</td>
<td>20</td>
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<td>Seminar</td>
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<td>Laboratory</td>
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<td>Activity</td>
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3. Justification and Learning Objectives for the Course. (Indicate whether required or elective, and whether it meets University Writing, and/or Language requirements) [Use as much space as necessary]

This is a requirement for the Environmental Science emphasis of the ESRM major.

Learning Objectives. By the end of this course, students will be able to:

• describe the initial motivation behind common restoration efforts
• explain the implicit and explicit theoretical underpinnings of restoration projects, supported by case studies
• argue both the strengths and weaknesses of common restoration approaches to both technical and lay audiences
• delineate the most common failings of most American and international restoration projects
• read and explain primary scientific literature
• articulate the multidisciplinary context (e.g. policy, legal, and public opinion issues) of modern restoration ecology

This course does not meet the University Writing and/or Language Requirement.

4. Is this a General Education Course YES ☐ NO ☒

If Yes, indicate GE category and attach GE Criteria Form:

A (English Language, Communication, Critical Thinking)
A-1 Oral Communication ☐
A-2 English Writing ☐
A-3 Critical Thinking ☐

B (Mathematics, Sciences & Technology)
B-1 Physical Sciences ☐
B-2 Life Sciences – Biology ☐
B-3 Mathematics – Mathematics and Applications ☐
B-4 Computers and Information Technology ☐
C (Fine Arts, Literature, Languages & Cultures)
C-1 Art
C-2 Literature Courses
C-3a Language
C-3b Multicultural
D (Social Perspectives)
E (Human Psychological and Physiological Perspectives)
UD Interdisciplinary

5. Course Content in Outline Form. [Be as brief as possible, but use as much space as necessary]

I. Motivations for ecological restoration
II. General approaches to ecological restoration
III. What is a successful restoration?
IV. Implicit vs. explicit assumptions and the Field of Dreams Hypothesis
V. Performance metrics
VI. Failure as an essential learning tool
VII. Implications of spatiotemporal stochasticity for restoration design
VIII. Articulating the pros and cons of restoration designs

Does this course overlap a course offered in your academic program? YES ☐ NO ☒
If YES, what course(s) and provide a justification of the overlap?

Does this course overlap a course offered in another academic area? YES ☐ NO ☒
If YES, what course(s) and provide a justification of the overlap?
Signature of Academic Chair(s) of the other academic area(s) is required on the signature sheet below.

6. Cross-listed Courses (Please fill out separate form for each PREFIX)
List Cross-listed Courses

Signature of Academic Chair(s) of the other academic area(s) is required on the signature sheet below.

Department responsible for staffing:

7. References. [Provide 3 - 5 references on which this course is based and/or support it.]


8. List Faculty Qualified to Teach This Course.

Dr. Sean Anderson and other ESRM faculty

a. Projected semesters to be offered: Fall ☒ Spring ☒ Summer ☐

10. New Resources Required. YES ☐ NO ☒
If YES, list the resources needed and obtain signatures from the appropriate programs/units on the sheet below.

a. Computer (data processing), audio visual, broadcasting needs, other equipment

10.11.05 km2
b. Library needs

c. Facility/space needs

11. Will this new course alter any degree, credential, certificate, or minor in your program? YES ☒ NO ☐
If, YES attach a program modification form for all programs affected.

Dr. Sean Anderson
Proposer of Course

10/12/2006
Date
Approval Sheet
Program/Course: ESRM 349

__________________________    _____________________________
Program Chair(s)                Date

__________________________    _____________________________
General Education Chair(s)       Date

__________________________    _____________________________
Curriculum Committee Chair(s)    Date

__________________________    _____________________________
Dean of Faculty                 Date