RECR 446  
Natural Resources Management  (#3165)  
Spring Semester, 2011  
TR 9:30 – 10:45, & TBA  
Yolo 178  

Dr. Steve Dennis  
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Catalog Description  
Managing the interactions between natural resources and users to produce outdoor recreation. The outdoor recreation production function. Carrying capacity, limits of acceptable change, competition, and complementarity among recreation uses and between recreation uses and other resource uses. Methods for monitoring recreational impacts, and approaches to managing resource quality and recreational opportunities. Required field trip. 2.0 hours discussion, 2.0 hours activity.  

Course Objectives  
Students will be able to demonstrate an understanding (through graphic, written and oral means) of:

1.) Terminology salient to the natural resource management disciplines including: forestry, range, water, wildlife, recreation, fire, wilderness, aesthetics, and urban forestry management.  

2.) The relationship between outdoor leisure behavior, land management practices, and environmental conditions. The effective management of recreation users in natural resource settings. Environmental perceptions and behavioral responses of recreation resource users. (COA 9B.04)  

3.) Planning and implementation of the L.A.C. (Limits of Acceptable Change) system for the management of physical and social recreation impacts in natural resource settings. (COA 9B.04)  

4.) Methods of measurement, data collection, and site assessment for site conditions including soils, human behavior, carrying capacity, fuel loads, vegetation, water, wildlife, etc. (COA 7B.02)  

5.) Ecology based production functions (including inventory, land use planning, functional inputs, processing, development of yields, and evaluation) and the development of land management prescriptions for ecosystems in wildland recreation areas. (COA 7B.02)
6.) Appropriate goals and objectives for an integrated plan of resource land management.

7.) The role of wildland recreation management in integrated resources management planning systems.

8.) Community service-learning in park and natural resource settings, including service project programming.

Textbook and Readings


Grading System

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Points</th>
<th>Weighting</th>
<th>Total Points</th>
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</thead>
<tbody>
<tr>
<td>Mid-Term Exam</td>
<td>100</td>
<td>2.0 (20%)</td>
<td>200</td>
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<tr>
<td>Final Exam</td>
<td>100</td>
<td>3.0 (30%)</td>
<td>300</td>
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<tr>
<td>Fieldwork Portfolio</td>
<td>100</td>
<td>5.0 (50%)</td>
<td>500</td>
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<tr>
<td>&amp; Attendance</td>
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Total Points: 1000

900 to 1000 points = A
700 to 799 points  = C
Below 600 points  = F

Class Policies

ELECTRONIC DEVICES - - It's all about respect... The classroom environment is one of mutual respect and consideration for all in attendance. This includes fellow peers, guest speakers, and the instructor. Please make sure cell phones, pagers, iPods, laptops and other personal media devices are turned completely off prior to the beginning of class time. Anyone acting in a disrespectful manner to others will be asked to leave and will receive a 10 point reduction to their grade.

INCOMPLETES are only given for serious and compelling reasons.

“QUIZ QUESTIONS” in the Course Packet will provide the basis for the mid-term and final exams. Use this as you read the text, to study. The final exam will be cumulative. Format will be essay and fill-in, with questions selected from the sample quizzes in the Course Packet.
FIELDWORK PORTFOLIOS - DETAILED INSTRUCTIONS ON THE PORTFOLIO ASSIGNMENT ARE IN THE COURSE PACKET. FOLLOW INSTRUCTIONS CLOSELY!

Each student will be a group member assigned an area in Bidwell Park of approximately one acre. The site will include a picnic area. Each group will run a series of physical and social assessments on their site and will write up each assessment. The write-ups will be placed into a well-organized binder and presented as a portfolio of work to the instructor four times during the semester. A number of assessments will be demonstrated in class. Others are described (in varying detail) in the Course Packet. Still others are to be found in the class textbook. Students will be allowed to choose the assessments performed. Some may be the assessments demonstrated during labs. The best grades will be given to those who research and perform additional assessments and site monitoring techniques beyond those demonstrated in class. Portfolios will also be graded on organization, scientific procedure, spelling/grammar/etc., professional presentation, writing style, comprehensiveness, creativity/thoughtfulness, and referencing. The Portfolio grade is a group grade. The portfolio assignment is designed to give you experience in performing procedures used by professionals in natural resources management. Make the best of this opportunity. The bibliography in your text has numerous references for this assignment. It is strongly recommended that you read the text!!!

FIELD TRIP: Your consistent studying in Bidwell Park comprises the “field trip” portion of the course.

Class Schedule

Unless otherwise marked on the schedule below, Tuesdays and Thursdays will generally be spent in lecture/discussion and selected classes will be spent with a lab exercise or demonstration. It will be your responsibility to make up for any missed labs or lectures by getting the notes and information from another person in class. Good attendance makes for better portfolios.

<table>
<thead>
<tr>
<th>Dates</th>
<th>Topics, Labs, Due Dates * :</th>
<th>Readings</th>
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</thead>
<tbody>
<tr>
<td>1/25 – 1/27</td>
<td>Introduction, Course Outline, Definitions Natural Resource Interactions Nature of Physical Recreation Impacts Organize Journal &amp; Portfolio Teams</td>
<td>H&amp;C #1</td>
</tr>
<tr>
<td>2/1 – 2/3</td>
<td>Natural Resource Production Functions Wildland Recreation Site Management Model Lab: Overview to Recreation Impacts</td>
<td>H&amp;C #1 Packet</td>
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<tr>
<td>2/8 – 2/10</td>
<td>Lab: Map and Photographic Survey</td>
<td>H&amp;C #2, #11</td>
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<td>2/15 – 2/17</td>
<td>Soils</td>
<td>H&amp;C #2</td>
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<tr>
<td>Dates</td>
<td>Topics, Labs, Due Dates *:</td>
<td>Readings</td>
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| 2/22 – 2/24  | Soils  
*Lab: Soil Measurements*                                   | H&C #2        |
| 3/1 – 3/3*   | Vegetation  
*Lab: Vegetation Measurements*                           | H&C #3        |
|              | Portfolio Step #1 Due *                                        |               |
| 3/8 – 3/10*  | Fire  
*Lab: Fuel Loading/Hazards, NFDRS*                          |               |
|              | Mid-Term Exam! (Thursday)                                      |               |
| 3/14 – 3/18  | Spring Break                                                  |               |
| 3/22 – 3/24  | Wildlife  
*Lab: Habitat Assessments*                                | H&C #4        |
|              | Packet                                                        |               |
| 3/29 – 3/31  | Water  
*Lab: Sedimentation*                                      | H&C #5        |
|              | Packet                                                        |               |
| 3/31         | Cesar Chavez Day                                              |               |
| 4/5 – 4/7*   | Factors Affecting Impacts  
Spatial & Temporal Impacts  
Trends in Wildland Recreation Use  
Portfolio Step #2 Due* | H&C #6,7      |
| 4/12 – 4/14  | Environmental Durability & Visitor Use  
*Lab: Trail Erosion*                                           | H&C #8, #9    |
| 4/19 – 4/21  | Limits of Acceptable Change  
*Lab: LAC*                                                       | H&C #10       |
|              | Packet                                                        |               |
| 4/26 – 4/28* | Social Recreation Impacts  
*Lab: Recreational Behavior Observation*  
Portfolio Step #3 Due*                                        | H&C #10       |
| 5/3 – 5/5    | Visitor Management                                           | H&C #12       |
|              | *Lab: Use Conflicts*                                          |               |
| 5/10 – 5/12* | Site Management                                               | H&C #13, #14, |
|              | Review for Final                                              | #15           |
|              | Portfolio Step #4 Due *                                       |               |
| 5/17 T *     | **Final Exam** *12:00 - 1:50 PM**                              |               |
Note:

RECR 446 is a lecture - lab course. It moves along and builds on your mastery of concepts presented along the way. Keeping up with attendance, readings, and assignments is the only way to develop a successful learning experience in this class. Additionally, you have an obligation to other class members who will be part of your portfolio team. Working together, we will make this an interesting and stimulating class. Enjoy!

And:

Regarding adding or dropping: The first two weeks of the semester are an open add/drop period. During weeks three and four, an add or drop requires the Instructor’s signature. After week four students will need a “serious and compelling” reason (see 2009-2011 Catalog p. 141) for adds, drops, and change of grading option, requiring permission of the Instructor, Department Chair, and College Dean.