

**INTRODUCTION TO RENEWABLE RESOURCES**  
**(NREM 120, AST 120, AGRON 120, ENV S 120)**

1210 LaBaron

**Spring 2006**

**MWF 12:10-1:00 p.m.**

<u>#</u>	<u>DATE</u>	<u>TOPIC</u>	<u>TEXTBOOK</u>	<u>INSTRUCTOR</u>
1	January/9 M	Overview of renewable resources	pgs viii-x; 598-99	H/JP
2	11	Brief history of resource conservation	pgs 1-11	JP
3	13	Brief history of resource conservation	pgs 12-23 (skip 1.8)	JP
	Jan 16M	U. Holiday		
4	18W	Conservation law	pgs 403, 415-17, 463, 477, 523	JP
5	20	Conservation ethics	pgs 24-25, 36-46, 411, 445	H
6	23M	Resource economics	pgs 24-36	JP
7	25	Introduction to ecology: energy flow	pgs 47-59	JP
8	27	Introduction to ecology: materials cycling	pgs 60-64	JP
9	30M	Introduction to ecology: ecosystem development	pgs 47-49, 64-73	H
10	February/1	Introduction to ecology: biomes	pgs 73-83	H
11	3	Introduction to ecology: populations	pgs 66-71	JP
12	6M	Human populations	Chapter 4, 84-102	JP
13	8	Human Populations	Chapter 5, 103-06	JP
	10	<b><u>EXAM # 1</u></b>		
14	13M	Soil resources	Chapter 6	B
15	15	Soil resources	pgs 138-45; both boxes 7.1	B
16	17	Grassland Resources	Chapter 13	H
17	20M	Agroecology	Chapter 7	H
18	22	Water resources: Quantity	Chapter 10	H
19	24	Water resources: Quality	Chapter 11	JP
20	27M	Aquatic biotic resources: ecology	Chapter 9	TBA
21	March 1	Aquatic biotic resources: fisheries	pgs 298-324	TBA
22	3	Aquatic biotic resources: fisheries	pgs 324-39	TBA
23	6M	Forest resources	pgs 365-69	H
24	8	Forest resources	pgs 369-80	H
25	10	Forest resources	pgs 384-92	H
	March 13-17	Spring Break		
26	20M	Forest resources	pgs 392-99	H
27	22	Agroforestry	Chapter 5; 146-53	H
	24	<b><u>EXAM # 2</u></b>		
28	27M	Wildlife resources	Chapter 16; 66-71	JP
29	29	Wildlife resources	Chapter 16	JP
30	31	Biodiversity	Chapter 15	JP
31	April 3M	Invasive species	Chapter 15	JP
32	5	Pest management	pgs 165-76	H
33	7	Pest management	pgs 177-88	H
34	10M	Fire ecology		H
35	12	Fire management	pgs 380-83	H
36	14	Air pollution	Chapter 18	JP
37	17M	Global change	Chapter 19	JP
38	19	Risk	pgs 19-20	JP
39	21	Renewable energy resources	Chapter 22	H
40	24M	Ecosystem management		H
41	26	Ecosystem management	pgs 153-64	H
42	28	Discussion & Evaluation	pgs 598-99	H/P
	May 4 Thursday	12:00-2:00 p.m. <b>FINAL EXAM</b>		

If you have a **documented disability** and anticipate needing accommodations in this course, please make arrangements to meet with Dr. Hall soon. Please request that a Disability Resources staff send a SAAR form verifying your disability and specifying the accommodation you will need.

## **NREM 120 S06**

### **Goals of the course:**

1. Introduce the subject of renewable resources to students majoring in natural resource fields such as Agricultural Systems Technology, Agronomy, Animal Ecology, Environmental Studies, and Forestry (see learning objectives below). Provide the background for upper division courses in those majors.
2. Provide general background for students in other majors wishing to better understand environmental issues confronting them now and in the future. Fulfills the College of Agriculture's environmental intensive general education requirement.
3. Show how the various resources are interconnected and that management of some resources without consideration of other resources can lead to unexpected negative results.
4. To encourage interaction of students from different majors to share knowledge, ideas, and viewpoints.

### **Exams and Grading:**

1. **Exams:** There will be three unit exams (see lecture schedule). Exams will cover reading assignments on the lecture schedule, lecture notes, handouts from class, etc **for that third of the course**. Each exam will be multiple choice and worth 100 points.
2. **Exercises:** There will be periodic in-class, take-home, or web-based exercises that will be graded. Students must hand in only their own work! Most of these will not be announced ahead of time and there will be no make-up for them. Students who provide an acceptable e-mail or written excuse showing they could not attend class due to legitimate academic conflicts or illness may be excused from that assignment. The exercises will be weighted to total 75 points by the end of the semester. This amounts to 20% of your final grade.
3. **Makeup exam:** A student who misses one of the first two exams, and who has an acceptable excuse, may petition to take a makeup exam. This must be arranged with the instructor prior to the exam to be missed. Except in exceptional circumstances, a student may not make up more than one exam. Makeup exams may be a different format than the other exams; i.e., computer based essay, short answer, fill in the blank, etc.
4. **Point system:** Final grades will be based on 375 points. Grades will be based on the following percentage scale: 90-100 = A; 80-89 = B; 70-79 = C; 60-69 = D; below 60 = F. Plus and minus grades will be given within these ranges. The instructors reserve the right to lower the minimum exam scores for any grade depending on class average. In-class scores will not be curved. Instructors will discuss possible errors in grading but will not negotiate final grades.
5. **Textbook:** Chiras, D.D., J.P. Reganold, and O.S. Owen. 2004. *Natural Resource Conservation: Management for a Sustainable Future*. Ninth Edition. Prentice Hall, Upper Saddle River, NJ. Copies are on reserve in the Library. Call No. S938 O87 2004.
6. **Reading assignments:** Reading assignments are given on the lecture schedule. Occasional additional readings may be assigned.
7. **Optional help sessions:** Students are encouraged to speak to the instructors or the TA any time they have questions. In addition, several group help sessions will be scheduled during the semester. Times for these will be announced later.

### **PRIMARY INSTRUCTORS**

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### **This course provides some of the knowledge and skills you will need to accomplish the following learning outcomes:**

- Develop, explain, and evaluate your own beliefs and values in relation to professional and societal standards of ethics.
- Analyze and evaluate natural resource issues and the ecological, economic, and social consequences of natural resource actions at various scales and over time.
- Recognize and interpret resource problems across spatial scales from local to global.
- Understand the impact of the global distribution of people and wealth on natural resource use and valuation.
- Exercise life-long learning skills developed before graduation.