HUMAN DIMENSIONS OF ECOSYSTEM MANAGEMENT

ENR 8400, Fall Semester 2017

Credits: 2 hours
Meeting times: Monday: 12:10 – 2:00PM, Kottman Hall, Rm. 245
Instructor: Jeremy Bruskotter, PhD
Kottman Hall, Rm 379D
2021 Coffey Road
Columbus, OH 43210
Contact: 614-247-2118, Bruskotter.9@osu.edu
Office Hours: Week days, by appointment

COURSE DESCRIPTION

This course provides a broad, interdisciplinary overview of theories and frameworks for understanding and addressing environmental and natural resource management dilemmas. The course is divided into two parts:

Part I. Efforts to Understand and Treat Environmental Problems
This part of the course reviews early narratives, theories and ongoing debates concerning how human beings impact their environment and what can be done to alleviate these impacts. Many of the most contentious debates surround problems for which there is no objectively “right” answer. When one accepts the proposition there is no right way to manage ecosystems, it becomes clear that the primary point of contention is not how we should management ecosystems, but for what purpose should we manage ecosystems; thus, the need to find ways of addressing conflicts.

Part II. Toward a Systems Perspective and Integration of the Social and Ecological Sciences
In these discussions, students will be asked to integrate key concepts and ideas discussed in the beginning of the course with knowledge gained from other social and ecological sciences toward the ultimate goal of better understanding how to sustainably manage common pool resources. Throughout the latter half of the course, we discuss socio-ecological systems, as well as additional frameworks for understanding sustainable resource management that integrate knowledge across disciplines.

COURSE GOALS

This course will...

1. Describe early theories and historically-relevant debates concerning how human beings impact the natural environment.
2. Explore how theories and approaches from the social sciences can be used to assist us in understanding the causes and consequences of—and potentially the solutions to—environmental problems.
3. Explore the causes of environmental conflict and examine theories and frameworks for mitigating and managing conflicts.

4. Promote critical thinking concerning humankind’s role as both the source and solution to environmental problems.

Students will...

1. Develop familiarity with early theories and historically-relevant debates concerning how human beings impact their biophysical environment.

2. Develop familiarity with theories and concepts employed in the conservation and management of natural resources.

3. Understand how theories and methods employed by social scientists can be used to assist researchers and practitioners in understanding the causes and consequences of environmental problems.

4. Understand the common causes of environmental conflict and examine theories and frameworks for mitigating and managing conflicts.

5. Think critically concerning humankind’s role as both the source and solution to environmental problems.

Format:
The course will be a discussion/seminar format; students are expected to come to class and actively participate in class discussions.

Readings:
There is no required textbook for this course. All readings will be made available online through CARMEN. The daily readings are a critical part of this course. Students are expected to come to class ready to discuss the week’s readings.

Participation:
Participation scores will be based on participation in classroom discussions. Regular attendance is a necessary, but insufficient, condition for a passing grade in participation. Students will have opportunities to add to class discussions throughout the quarter; these opportunities include: answering questions, responding to other students’ ideas, asking questions, as well as in-class group work. Note: Reading and thinking about the assigned reading before class are critical for classroom participation.

Absences:
All absences must be approved in advance by contacting the instructor prior to the date you plan to miss. Unexcused absences (UAs) will result in the following deductions to participation scores: - 5 points for the first UA, and - 10 points for each additional UA.

Mid-term Take-home Exam:
An essay-based, mid-term examination will be distributed at the end of Part 1 and due approximately 1-week later. The exam is worth 25% of your grade.

Issue Analysis Paper:
The purpose of the issue analysis paper will be to analyze the human/social dimensions of a specific natural resource management or environmental issue that was not discussed in class. The issue analysis
paper provides students with an opportunity to apply concepts learned in class to an issue of their choice. The format for this paper is flexible, but generally the paper should contain the following components:

1. **Introduction.** A brief introduction that explains the issue, delineates stakeholders/interests and their positions, and explains why the issue is of importance to society. Note: The introduction is where biophysical research is most relevant.

2. **Analysis (Body).** The purpose of the paper is to help students understand the root cause(s) of pressing environmental problems and apply theory and concepts introduced in the course to understanding these problems. In the body of the paper, students will describe the socio-cultural, economic, and political conditions that have given rise to the issue and/or prevent its meaningful resolution. In this section it is important to cite relevant research from the course and describe the theoretical “lens” (or lenses) through which the issue is being viewed.

3. **Solutions.** In the final section of the paper, students should offer ideas for how the problem/issue they have chosen might be solved, mitigated, or otherwise managed. If the problem is irreconcilable given prevailing social conditions, then you need to describe why this is the case (i.e., what barriers prevent or hamper resolution?), and describe whether and how you think prevailing social conditions can change.

A minimum of **8 outside sources** (i.e., sources not discussed in class) are required for this paper; in addition, students must cite relevant course readings where appropriate (note: Wikipedia is not an acceptable source; students should only cite relevant, peer-referred literature). Initial draft papers should be limited to 1,500 words (not including title and reference list) and formatted to use 1” margins and 12-point *Times New Roman* font. Information must be properly attributed and cited; presenting information from other sources without proper attribution is not acceptable. You may use any standard citation style that uses a Name/Year (e.g. Smith & Smithers, 2000) format such as, APA or Chicago styles. Papers must be your original work. **Final papers are limited to 3,000 words.** Additional guidance on papers will be provided in class and made available on Canvas.

**Lecture Discussion Questions:**
Each student will be responsible for submitting lecture discussion questions for 3 class dates. Lecture discussion questions must be submitted on Canvas three days prior to lecture (i.e., by 12-noon, on the Friday preceding the lecture). Students are responsible for generating at least 2 questions per reading/paper.

**Grading:**

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<tr>
<th>Assignment</th>
<th>Due</th>
<th>Points</th>
<th>Portion of Final Grade</th>
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<tbody>
<tr>
<td>Participation / Attendance</td>
<td>NA</td>
<td>10</td>
<td>10%</td>
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<tr>
<td>Issue analysis paper (draft)</td>
<td>30 OCT</td>
<td>20</td>
<td>20%</td>
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<tr>
<td>Mid-term examination</td>
<td>16-23 OCT</td>
<td>30</td>
<td>25%</td>
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<tr>
<td>Lecture Discussion questions</td>
<td>NA</td>
<td>10</td>
<td>15%</td>
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<tr>
<td>Final issue analysis paper</td>
<td>04 DEC</td>
<td>30</td>
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<td><strong>Total</strong></td>
<td>NA</td>
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Academic Misconduct:
Faculty Rule 3335-31-02 defines academic misconduct as any activity that tends to compromise the academic integrity of the institution or subvert the educational process. Academic misconduct (e.g. plagiarism, cheating, and other forms of misconduct) will not be tolerated in this course. Please see the Student Resource Guide or the instructor if you have questions about this policy.

Disabled Students:
Any student who feels s/he may need an accommodation based on the impact of a disability should contact the instructor as soon as possible to discuss potential accommodations for their specific needs. You might also wish to contact the Office for Disability Services (614-292-3307, in room 150 Pomerene Hall) who provide assistance coordinating reasonable accommodations for students with documented disabilities.
PART 1. EFFORTS TO UNDERSTAND AND TREAT ENVIRONMENTAL PROBLEMS

1. (28 AUG) Human Populations and Environmental Problems


2. (11 SEP) On the Causes of Societal Collapse and Societal Success


3. (18 SEP) Social Traps and the Tragedy of the Commons [Guest lecture: Robyn Wilson, SENR]


4. (25 SEP) Environmental Problems and Social Conflict


5. (02 OCT) “Fixing” Environmental Problems: Conceptualizing Treatments


6. (09 OCT) Reducing Conflict: Ecosystem Management and Collaboration


7. (16 OCT) On Notions of Conservation and Sustainability


PART 2. TOWARD A SYSTEMS PERSPECTIVE AND INTEGRATION OF THE SOCIAL AND ECOLOGICAL SCIENCES

8. (23 OCT) Toward an Integrative Systems Perspective


9. (30 OCT) In-Class Peer Review of Issue-Analysis Papers

10. (06 NOV) Environmental Concern and Postmaterialism


11. (13 NOV) Adaptation, Vulnerability and Adaptive Capacity


12. (20 NOV) Guest Lecture: TBA

13. (27 NOV) Can we Change Values to Save the Environment?


Ives & Fischer (response)

Manfredo et al. (reply)

14. (04 DEC) Barriers to an Interdisciplinary Understanding of Socio-Ecological Systems


15. (14 DEC) EXAM DATE DISCUSSION TBD / Suggested: On Science and Advocacy: The Normative Dimension of the Environmental Sciences

