Governance of Social-Ecological Systems
POLI 443
FALL 2021

MAYBANK 316
3:25PM - 4:40PM MW

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Office hours: By appointment (on Zoom)

COVID-19
The COVID-19 pandemic is still ongoing. The College of Charleston requires that masks be worn while indoors and you must wear a mask at all times while in class. Although vaccinations are currently not required, I ask you to be respectful of the health and safety of others. If you have not received the COVID-19 vaccine, which is safe, free, and effective, please consider doing so immediately. Information about the vaccine is available from the SCDHEC website and information about where and when to obtain a vaccine is also available on the SCDHEC website vaccine locator page.

Course Description
Social-ecological systems are ecological systems that are linked to and affected by one or more social systems. Management and governance of such systems include a wide range of stakeholders and institutions. In this course we will examine various approaches to governing and managing these systems to make them more resilient.

This course is cross-listed with graduate students in both the M.S. Environmental and Sustainability (MES) program. Note, if you take this course as an undergraduate student, you will not be able to take it as a graduate student.

This course will be lecture and discussion based. Being able to adequately participate requires you to come to class prepared by having done the assigned readings prior to class. In addition, you should be prepared to participate in class by asking questions and making informed comments that add to the class discussion. I may call on you to answer a question or discuss your case study.

Laptops are allowed, but discouraged. Phones should be put away during class. I encourage you to take notes by hand, with pen and paper. You learn better that way. I recommend taking notes using the Cornell Method.
Course Prerequisites
Must have junior or senior standing or attain approval from the instructor.

Attendance Policy
Attendance will be taken for each class session, and will be part of your course engagement grade. You are allowed to miss two classes without penalty. However, do not come to class if you feel ill. Additionally, if you have been exposed to or tested positive for COVID-19, do not come to class regardless of how you feel. In those cases, I am happy to meet with you on Zoom to discuss material you missed and wave the attendance requirement. Just let me know.

Course Goals and Learning Objectives
After taking this course student will:

• Develop an understanding of social-ecological systems.
• Articulate the challenges involved with the management of common-pool resources and social-ecological systems governance.
• Understand the role of institutions in managing the commons and in social-ecological systems governance.
• Differentiate the role that institutions and policy play in models of social-ecological systems.
• Be able to produce a recommendation to improve governance of a social-ecological system.

These objectives will be achieved through critically reading the course readings, by writing several reflection essays, a case study project that applies Ostrom’s Social-Ecological Framework to a particular social-ecological system, and course engagement.

Required Materials

  – A pdf and eBook version of the book is available at the book’s website, sustainingthecommons.org
• Other required readings will be provided on OAKS
Course Requirements and Grading

Performance in this course will be evaluated on the basis of 8 short reflection papers, a case study, and course engagement.

Points will be distributed as follows:

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Possible Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reflection papers (8)</td>
<td>200 points total</td>
</tr>
<tr>
<td>Case study</td>
<td>500 points total</td>
</tr>
<tr>
<td>Course engagement</td>
<td>100 points</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>800 points</strong></td>
</tr>
</tbody>
</table>

Assignments

Specific instructions for the following assignments are posted on OAKS. All work must be turned in through the Assignment folder on OAKS, and is due at class time unless otherwise specified.

**Reflection papers:** You will write 8 short, about a page, reflection papers that summarize and integrate the readings. Prompts will be given for each paper in OAKS. **When assigned, reflection papers are due on Mondays at class time.**

**Case study:** You will develop a case study that applies Ostrom’s SES Framework to a specific social-ecological system. Sections of the case study will be completed and turned in throughout the semester. The final case study should be about 10 to 15 pages. You will also give a short presentation, about 15 minutes, of your case study.

**Course engagement:** Course engagement involves coming to class prepared, having read, and ready with questions and comments.

Late Work Policy

Late work is subject to a 48-hour grace period, and after that will be penalized 10% each day (24 hr period) it is late, up to 3 days. After 3 days the assignment will not be accepted. For example, if an assignment is due Wednesday at 2:00 PM, the grace period ends on Friday at 2:00 PM and it is late as of 2:01 PM and you lose 10%. After Saturday at 2:01 PM you lose another 10%, after Sunday at 2:01 PM another 10%, and no work will be accepted after Monday at 2:00 PM. **No late work will be accepted 72 hrs after the assignment due date and time.**

Grading Scale

There are **800** possible points for this course. Grades will be allocated based on your earned points and calculated as a percentage of 800. A: 94 to 100%; A-: 90 to 93%; B+: 87 to 89%; B: 83 to 86%; B-: 80 to 82%; C+: 77 to 79%; C: 73 to 76%; C-: 70 to 72%; D+: 67 to 69%; D: 63 to 67%; D-: 60 to 62%; F: 59% and below
Course Schedule

Subject to Change. Changes will be announced in class, through email, and on the OAKS course page.

All readings listed under Readings below are required. Readings other than the AJ book will be made available on OAKS and can be found under Content -> Readings.

Book


Articles

You will be reading several peer-reviewed academic journal articles. *These will be made available as pdfs on OAKS*. In addition, you will be required to find several journal articles on your own related to your research project.

Links

I also provide several links to web based sources. You can access these sources through the links on the syllabus or through OAKS.

Aug 23-Aug 25: Course Introduction and Overview

- **Readings:**

Aug 30-Sept 1: Common-Pool Resources

- **Readings:**
  - AJ, Chapter 1: *Why Study the Commons?*
  - The Tragedy of the *Tragedy of the Commons*

- **Assignments:**
  - Reflection paper 1
Sept 6-Sept 8: Markets and Property Rights

- **Readings:**

- **Assignments:**
  - Reflection paper 2

Sept 13-Sept 15: States and Regulation

- **Readings:**
  - Rowell and van Zeben, Chapter 7: *Ecosystem Management*

- **Assignments:**
  - Case study part 1 DUE: Sept 15

Sept 20-Sept 22: Institutions

- **Readings:**
  - AJ, Chapter 2: *Defining Institutions*

- **Assignments:**
  - Reflection paper 3

Sept 27-Sept 29: Action Arenas

- **Readings:**
  - AJ, Chapter 3: *Action Arenas and Action Situations*

- **Assignments:**
  - Reflection paper 4
Oct 4-Oct 6: Design Principles

- **Readings**
  - AJ, Chapter 7: *Design Principles to Sustain the Commons*

- **Assignments**:
  - Reflection paper 5

Oct 11-Oct 13: Rules

- **Readings**:
  - AJ, Chapter 10: *Classifying Rules*
  - AJ, Chapter 11: *Rules, Norms, and Shared Strategies*

- **Assignments**:
  - Case study part II DUE: Oct 13


- **Readings**:

- **FALL BREAK: Oct 18-19**

Oct 25-Oct 27: Systems

- **Readings**:
  - AJ, Chapter 12: *Feedbacks and Stability*
  - AJ, Chapter 13: *Coupled Infrastructure Systems*

- **Assignments**:
  - Reflection paper 6
Nov 1-Nov 3: Resilience of Social-Ecological Systems

- **Readings:**

- **Assignments:**
  - Reflection paper 7

Nov 8-Nov 10: Polycentricity

- **Readings:**
  - AJ, Chapter 14: *Think Globally, Act Locally?*

- **Assignments:**
  - Case study part III DUE: Nov 10

Nov 15-Nov 17: Polycentricity and the Ecology of Games

- **Readings:**

- **Assignments:**
  - Reflection paper 8

Nov 22-Nov 24: Conclusion

- **Readings:**

- **THANKSGIVING BREAK: Nov 24-26**
Nov 29-Dec 1: Presentations

Dec 6-Dec 8: Presentations

• Complete Case Study DUE: Dec 6
Important Information

Academic Integrity Statement

Lying, cheating, attempted cheating, and plagiarism are violations of our Honor Code that, when identified, are investigated. Each incident will be examined to determine the degree of deception involved.

Incidents where the instructor determines the student’s actions are related more to a misunderstanding will handled by the instructor. A written intervention designed to help prevent the student from repeating the error will be given to the student. The intervention, submitted by form and signed both by the instructor and the student, will be forwarded to the Dean of Students and placed in the student’s file.

Cases of suspected academic dishonesty will be reported directly by the instructor and/or others having knowledge of the incident to the Dean of Students. A student found responsible by the Honor Board for academic dishonesty will receive a XXF in the course, indicating failure of the course due to academic dishonesty. This status indicator will appear on the student’s transcript for two years after which the student may petition for the XX to be expunged. The F is permanent.

Students should be aware that unauthorized collaboration – working together without permission – is a form of cheating. Unless the instructor specifies that students can work together on an assignment, quiz and/or test, no collaboration during the completion of the assignment is permitted. Other forms of cheating include possessing or using an unauthorized study aid (which could include accessing information via a cell phone or computer), copying from others’ exams, fabricating data, and giving unauthorized assistance.

Research conducted and/or papers written for other classes cannot be used in whole or in part for any assignment in this class without obtaining prior permission from the instructor.

Students can find the complete Honor Code and all related processes in the Student Handbook

Students with Disabilities

The College will make reasonable accommodations for persons with documented disabilities. Students should apply at the Center for Disability Services located on the first floor of the Lightsey Center, Suite 104. Students approved for accommodations are responsible for notifying me as soon as possible and for contacting me at least one week before any accommodation is needed.

Inclement Weather, Pandemic or Substantial Interruption of Instruction

If in-person classes are suspended, faculty will announce to their students a detailed plan for a change in modality to ensure the continuity of learning. All students must have access to a computer equipped with a web camera, microphone, and Internet access. Resources are available to provide students with these essential tools.
Mental and Physical Wellbeing

At the college, we take every student's mental and physical wellbeing seriously. If you find yourself experiencing physical illnesses, please reach out to student health services (843.953.5520). And if you find yourself experiencing any mental health challenges (for example, anxiety, depression, stressful life events, sleep deprivation, and/or loneliness/homesickness) please consider contacting either the Counseling Center (professional counselors or 843.953.5640 3rd Robert Scott Small Building) or the Students 4 Support (certified volunteers through texting "4support" to 839863, visit: http://counseling.cofc.edu/cct/index.php, or meet with them in person 3rd Floor Stern Center). These services are there for you to help you cope with difficulties you may be experiencing and to maintain optimal physical and mental health.

Food and Housing Resources

Many CofC students report experiencing food and housing insecurity. If you are facing challenges in securing food (such as not being able to afford groceries or get sufficient food to eat every day) and housing (such as lacking a safe and stable place to live), please contact the Dean of Students for support. Also, you can go to: http://studentaffairs.cofc.edu/student-food-housing-insecurity/index.php to learn about food and housing assistance that is available to you. In addition, there are several resources on and off campus to help. You can visit the Cougar Pantry in the Stern Center (2nd floor), a student-run food pantry that provides dry-goods and hygiene products at no charge to any student in need. Please also consider reaching out to Professor ABC if you are comfortable in doing so.

Center for Student Learning

I encourage you to utilize the Center for Student Learning’s (CSL) academic support services for assistance in study strategies and course content. They offer tutoring, Supplemental Instruction, study skills appointments, and workshops. Students of all abilities have become more successful using these programs throughout their academic career and the services are available to you at no additional cost. For more information regarding these services please visit the CSL or call (843) 953-5635.

I encourage you to take advantage of the Writing Lab in the Center for Student Learning (Addlestone Library, first floor). Trained writing consultants can help with writing for all courses; they offer one-to-one consultations that address everything from brainstorming and developing ideas to crafting strong sentences and documenting sources. For more information, please call 843.953.5635 or visit: http://csl.cofc.edu/labs/writing-lab/.

Religious Accommodation for Students

It is the policy of the College to excuse absences of students that result from religious observances and to provide without penalty for the rescheduling of examinations and additional required class work that may fall on religious holidays. Please see me immediately if you will need to miss class any time during this semester.