

FALL 2022
ENEC 567 Ecological Analyses and Applications
Mon/Wed 10:10-11:30am, Murphey 221

Instructor

Dr. Clark Gray

Professor of Geography

Drop-in office hours in 308 Carolina Hall: Mon 12-1pm, Wed 2:30-3:30pm, Fri 11am-12pm.

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Prerequisites

This is a required course for graduate students in the Environment, Ecology and Energy Program. Other graduate and undergraduate students who have significant previous training in this field and are prepared for graduate-level work may enroll with permission of the instructor.

Nature and Goals of the Course

This course is a student-driven investigation of the current literature in interdisciplinary ecology and the environment. The goals of this course are for students to: (1) comprehend the state of knowledge on several major topics within recent interdisciplinary environmental research, (2) considerably deepen their knowledge in an area of their own environmental interest and expertise, and (3) gain professional skills related to scholarly presentations, proposals and writing.

Structure of the Course

This course has two major components: (1) a set of interdisciplinary reading and discussions focused on collectively-defined topics of interest within environmental research, (2) a review paper and series of presentations by each student in their own area of interest. To implement the first component, pairs of students will choose interdisciplinary topics and select three papers to present. To further develop these topics, the final two weeks of the class will be devoted to developing team proposals for an interdisciplinary project focused on research, teaching or service. To implement the second component, each student will select a narrower topic area on which to write a 10-20 page review paper (covering 20+ journal articles) and on which they will also give ~5 class presentations (each focusing on a single journal article).

Grading

Item	Percent	Notes
Participation	10%	Participation in class discussions
Weekly presentations	35%	Approximately one 15 min presentation per week
Review paper	35%	10-20 page (double-spaced) paper with notes submitted weekly
Team proposal	20%	5 page team proposal for an interdisciplinary project
Total	100%	

Policies

- *Late penalties:* Late assignments will be counted off one letter grade per class period late.
- *Attendance:* If you need to miss class, please let me know in advance if at all possible, so that a make-up opportunity can be made available.

- *Accommodations:* If you have special needs that affect your participation in this class please let me know and I'll be happy to try to accommodate them.

Calendar

Week	Dates	Monday	Wednesday	Assignments
Week 1	8/15-8/17	Welcome	Intro to the academy 1	
Week 2	8/22-8/24	Student Topic 1	Intro to the academy 2	Review topic
Week 3	8/29-8/31	Student Topic 2	Interdisciplinary Topic 1	Review notes 1
Week 4	9/7	LABOR DAY	Interdisciplinary Topic 2	Review notes 2
Week 5	9/12-9/14	Student Topic 3	Interdisciplinary Topic 3	Review notes 3
Week 6	9/19-9/21	Student Topic 4	Interdisciplinary Topic 4	Review notes 4
Week 7	9/28	WELLNESS DAY	Interdisciplinary Topic 5	Review notes 5
Week 8	10/3-10/5	Student Topic 5	Interdisciplinary Topic 6	Review notes 6
Week 9	10/10-10/12	Student Topic 6	Interdisciplinary Topic 7	Review notes 7
Week 10	10/17-10/19	Student Topic 7	Interdisciplinary Topic 8	Review notes 8
Week 11	10/24-10/26	Student Topic 8	Interdisciplinary Topic 9	Review outline
Week 12	10/31-11/2	Student Topic 9	Interdisciplinary Topic 10	
Week 13	11/7-11/9	Student Topic 10	Interdisciplinary Topic 11	
Week 14	11/14-11/16	Student Topic 11	Interdisciplinary Topic 12	Review paper
Week 15	11/21	Team proposal	THANKSGIVING	
Week 16	11/28-11/30	Team proposal	Team proposal	
Final exam	12/8	Thursday 9am: Team presentations		Team proposal