

ENSP 2000-002 FALL 2018

INTRODUCTION TO ENVIRONMENTAL SCIENCE
AND POLICY

Course Syllabus

CLASS TIMES AND LOCATIONS:

Tuesdays & Thursdays: 12:30pm – 1:45pm; Brackett Hall 438

INSTRUCTOR:

Dr. Minory Nammouz

Office: 437 Brackett Hall

E-mail: mnammou@clemson.edu

OFFICE HOURS:

If the following times do not fit your schedule, please email me to set up an appointment at a different time.

Tuesday: 9:30am – 10:45am; Wednesday: 10:00am – 11:30am

COURSE DESCRIPTION

Basic principles of environmental science, including ecology, energy, resources, waste management; and air, water, and soil pollution. Consideration of issues, specific cases, investigative approaches, and remedial actions. Prerequisite or concurrent enrollment: Any course that satisfies the *Natural Science with a Lab* General Education requirement. See the Undergraduate Announcements for current listing of courses.

GENERAL EDUCATION COMPETENCY: This course fulfills the general education competency of Math/Natural Science, in addition to Science and Technology in Society as evidenced in students' final project.

COURSE LEARNING OUTCOMES

- Develop analytical and critical thinking about environmental issues.
- Gain appreciation and understanding of the discipline of environmental science.
- Gain experience in the practical application of science to real-life problems and to do so with topics that generally are of personal interest and societal importance.
- Provide an adequate foundation in environmental science content that will enable students to incorporate knowledge gained in their daily lives.

CT² LEARNING OUTCOMES

This section of ENSP 2000 designated at a Clemson Thinks2 Critical Thinking Seminar. This class is intended to help you in developing critical thinking skills and to be actively participant in environmental decision making. Environmental science in an interdisciplinary field, in this class you will analyze how core science is involved in understanding environmental problems, and how social factors can lead to environmental controversies. In addition, you will synthesize alternative solutions to environmental challenges that are most often multi-dimensional and include many factors such as economic, social, political, human health and more. Moreover, you will practice communicating your ideas effectively in writing and discussions forms.

List of outcomes:

- Explore contemporary issues and challenges related to the environment by using critical and creative thinking to understand, formulate, or apply ethical responses.
- Demonstrate critical thinking skills in relation to environmental affairs
- Demonstrate an ability to integrate the many disciplines and fields that intersect with environmental concerns.
- Synthesize environmental issue by understand and applying the scientific method, hypothesis formation and testing.
- Communicate ideas clearly in verbal and written modes as appropriate for public or professional science audiences, by referring to professional resources.

CT² outcomes will be evident in students written papers, group and class discussions, and in final project as described in the tentative course schedule.

TEXTBOOKS AND OTHER MATERIALS:

- *The Environment and You*, by Christensen, N. , Leege, L. & Juliana, J. 3rd edition, and access to *Mastering Environmental Science*. You can choose one from the following options:
 - Mastering Environmental Science with Pearson eText -- Standalone Access Card -- for The Environment and You, 3rd Edition. ISBN 9780134838809
 - Environment and You Plus Mastering Environmental Science with Pearson eText, The -- Access Card Package, 3rd Edition. ISBN 9780134784441
- Laptop

ONLINE ACCESS:

Canvas:

Canvas is the course management system that is used for this course. Login into Canvas using your Clemson University user ID and password. Once in Canvas select “ENSP 2000-02_Fall 2018” to access the course components.

Please note: this is the student responsibly to check for possible course announcements on Canvas and or CU email at least once a day.

Mastering Environmental Science:

Course ID: ENSP2000SEC02FALL2018

GRADING POLICY:

Your course grade will be determined based upon the total number of points you earn this semester. Each area of evaluative assessment will contribute as follows.

Homework/Classwork assignments	20%
Final project	12%
Final paper	8%
Team evaluation	5%
Three Exams	55%
TOTAL	100%

Grades are assigned based upon your final percentage of points earned:

90-100%: A 80-89.9%: B 70-79.9%: C 60-69.9%: D 59.9% and below: F

TIME STUDENTS WAIT FOR PROFESSOR ARRIVAL:

Students may leave after 20 minutes if the professor or a guest lecturer does not arrive in that time.

ATTENDANCE POLICY:

- Attendance is required. Students are expected to arrive on time for class.
- If a student accumulates more than three unexcused absences prior to the last day to withdraw from the course (10/26/18), **you may be dropped from class for non-attendance.**
- Excused absences include documented illness, official university functions, court attendance, religious observances, military duty, and funeral attendance. Written documentation is required for the absence to be excused. **The MyCLE absence notification system is NOT an official absence excuse.**
- Students are responsible for all missed assignments and announcement made during their absence. **(Please contact your fellow classmates to learn about announcements or classwork that you might have missed due to absence!)**

E-MAIL CORRESPONDENCE:

The instructor will respond to all inquiries, questions and other electronic correspondence within 48 hours. All e-mail messages from the instructor will be sent to the students Clemson e-mail address.

CLASSROOM ETIQUETTE:

- Cell phones, messaging devices, and music players (MP3, or laptop) should be turned off during class.
- Laptops shall be used for purposes that are relevant to the class, and based on the instructor directions. Inappropriate and/or irrelevant use of laptops (checking emails, surfing the web...) will result in losing your privilege of using a laptop in class.
- Students should conduct themselves in a professional manner at all times. If behavior in class is disruptive, the instructor reserves the right to ask student to leave the class.

ACADEMIC INTEGRITY STATEMENT:

“As members of the Clemson University community, we have inherited Thomas Green Clemson’s vision of this institution as a ‘high seminary of learning.’ Fundamental to this vision is a mutual commitment to truthfulness, honor, and responsibility, without which we cannot earn the trust and respect of others. Furthermore, we recognize that academic dishonesty detracts from the value of a Clemson degree. Therefore, we shall not tolerate lying, cheating, or stealing in any form.”

All work submitted for a grade must be your own, unless group work is assigned. All text included in assignments that was written by someone other than the student must be correctly quoted and cited.

STUDENTS NEEDING ACCOMMODATIONS:

Students with disabilities who need accommodations should make an appointment with the Director of Disability Services, to discuss specific needs within the first month of classes. Students should present a Faculty Accommodation Letter from Student Disability Services when they meet with instructors. Student Disability Services is located in Suite 239 Academic Success Building (656-6848; sdsl@clemson.edu). Please be aware that accommodations are not retroactive and new Faculty Accommodation Letters must be presented each semester.

TITLE IX INFORMATION:

Clemson University is committed to a policy of equal opportunity for all persons and does not discriminate on the basis of race, color, religion, sex, sexual orientation, gender, pregnancy, national origin, age, disability, veteran's status, genetic information or protected activity (e.g., opposition to prohibited discrimination or participation in any complaint process, etc.) in employment, educational programs and activities, admissions and financial aid. This includes a prohibition against sexual harassment and sexual violence as mandated by Title IX of the Education Amendments of 1972. This policy is located at <http://www.clemson.edu/campus-life/campus-services/access/title-ix/>. Mr. Jerry Knighton is the Clemson University Title IX Coordinator. He also is the Director of Access and Equity. His office is located at 111 Holtzendorff Hall, 864.656.3181 (voice) or 864.565.0899 (TDD).

PROPOSED COURSE SCHEDULE

This schedule is tentative and subject to change

Date	Topic
8/23/18	- Introduction to the course
8/28/18	- Critical thinking assessment (Pre-test)
8/30/18	- Environment, Sustainability, and Science (<i>Ch. 1</i>) - What does it mean to think critically (class exercise) - Critical thinking activity.
9/4/18	- Reading : Environmental Ethics, Economics, and Policy (<i>Ch.2</i>)
9/6/18	- Critical Thinking Exercise
9/11/18	- Reading: The Physical Science of the Environment (<i>Ch.3</i>)
9/13/18	- Critical Thinking Exercise
9/18/18	Review Session
9/20/18	Exam 1 (9/20/18)
9/25/18	Readings: Organism and Population Ecology and Evolution (<i>Ch.4</i>)
9/27/18	Communities and Ecosystems (<i>Ch.6</i>) Critical Thinking
10/02/18	Reading: Climate Change and Global Warming (<i>Ch.9</i>)
10/04/18	Critical Thinking Exercise
10/09/18	Reading: Air Quality (<i>Ch.10</i>)
10/11/18	Critical Thinking Exercise
10/16/18	Review Session
10/18/18	Exam 2
10/18/18	Water (<i>Ch.11</i>)
10/23/18	Nonrenewable Energy and Electricity (<i>Ch.14</i>)
10/25/18	Renewable Energy and Energy Conservation (<i>Ch. 15</i>)
10/30/18	Reading: Waste Management (<i>Ch.17</i>)
11/01/18	
11/06/18	No Class - Fall Break
11/08/18	The Environment and You

11/13/18	Critical thinking assessment (Post-test)
11/15/18	Exam 3
11/20/18	Final Project Presentations
11/22/18	No Class - Thanksgiving Holiday
11/27/18	Final Project Presentations
11/29/18	
12/04/18	
12/06/18	

ASSESSMENT AND EVALUATION:

Homework/Classwork:

The majority of the assignments will be completed during class time, therefore, you are responsible for attending all class session and turning all homework/classwork assignments.

Exams:

The course will include three exams during the semester, **No Cumulative Final Exam.**

Final Project

The following is a brief description of the project; detailed instructions will be provided later during the semester.

This project, which is done in teams, allows you to make this course a place where you take a question or problem of interest to you and explore it in more detail. The project will culminate in a power point presentation you present during the last three weeks of the semester. You will be expected to do some of your own literature research to support your project. The project topic has to be approved by the professor. In addition, you will write an individual short paper to reflect on your team's project.

Final Paper

You will write a final paper to reflect critically on your final project. Details will be provided later in the semester.