

ENSP 2000-002 FALL 2019

INTRODUCTION TO ENVIRONMENTAL SCIENCE
AND POLICY

Course Syllabus

CLASS TIMES AND LOCATIONS:

Tuesdays & Thursdays: 12:30 pm – 1:45 pm; Brackett Hall 220

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. Preq 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:

- Modified Mastering w/ etext for Environment and You 3e access code
ISBN 9780134838755

For those students that want a physical text

- Loose leaf Environment and You 3e w/ Modified Mastering w/ etext access code
ISBN 9780135159897
- Laptop
- Top Hat subscription

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 “[S1908-ENSP-2000-002](#)” 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:

MES is an online teaching platform that is used for this course assignments, please log into Canvas then click on “MyLab and Mastering” and follow registration directions.

TOP HAT

We will be using the Top Hat (www.tophat.com) classroom response system in class. You will be able to submit answers to in-class questions using Apple or Android smartphones and tablets, laptops, or through text message. You can visit the Top Hat Overview (<https://success.tophat.com/s/article/Student-Top-Hat-Overview-and-Getting-Started-Guide>) within the Top Hat Success Center which outlines how you will register for a Top Hat account, as well as providing a brief overview to get you up and running on the system.

An email invitation will be sent to you by email, but if don't receive this email, you can register by simply visiting our course website: <https://app.tophat.com/e/839775>

Note: our Course Join Code is: **839775**

Top Hat may require a paid subscription, and a full breakdown of all subscription options available can be found here: www.tophat.com/pricing.

Should you require assistance with Top Hat at any time, due to the fact that they require specific user information to troubleshoot these issues, please contact their Support Team directly by way of email (support@tophat.com), the in app support button, or by calling 1-888-663-5491.

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	15%
Attendance and participation (Top Hat)	5%
Final project	12%
Final paper	9 %
Peer evaluation	4 %
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 (09/03/19), **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.**
- Students are responsible for all missed assignments and announcement made during their absence.

NOTIFICATION OF ABSENCE:

- The Notification of Absence module in Canvas allows students to quickly notify instructors (via an email) of an absence from class and provides for the following categories: court attendance, death of family member, illness, illness of family member, injury, military duty, religious observance, scheduled surgery, university function, unscheduled hospitalization, other anticipated absence, or other unanticipated absence. The notification form requires a brief explanation, dates and times. Based on the dates and times indicated, instructors are automatically selected, but students may decide which instructors will receive the notification. **This does not serve as an “excuse” from class, and students are encouraged to discuss the absence with their instructors, as the instructor is the only person who can excuse an absence.** If a student is unable to report the absence electronically, he/she may call the Office of Advocacy and Success at 864-656-0935 for assistance and guidance.
- The Office of Advocacy and Success also assists students in identifying various appropriate methods of documenting absences and assists families in using the electronic Notification of Absence system when students are unable to do so themselves.

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:

- Laptops, cell phones or tablets shall be used for purposes that are relevant to the class and based on the instructor directions. Inappropriate and/or irrelevant use (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:

Clemson University values the diversity of our student body as a strength and a critical component of our dynamic community. Students with disabilities or temporary injuries/conditions may require accommodations due to barriers in the structure of facilities, course design, technology used for curricular purposes, or other campus resources. Students who experience a barrier to full access to a class should let the professor know, and make an appointment to meet with a staff member in Student Accessibility Services as soon as possible. You can make an appointment by calling 864-656-6848, by emailing studentaccess@lists.clemson.edu, or by visiting Suite 239 in the Academic Success Center building. Appointments are strongly encouraged – drop-ins will be seen if possible, but there could be a significant wait due to scheduled appointments. Students who receive Academic Access Letters are strongly encouraged to request, obtain and present these to their professors as early in the semester as possible so that accommodations can be made in a timely manner. It is the student’s responsibility to follow this process each semester. You can access further information here:

<http://www.clemson.edu/campus-life/campus-services/sds/>.

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/>. Ms. Alesia Smith is the Clemson University Title IX Coordinator and the Executive Director of Equity Compliance. Her office is located at 110 Holtzendorff Hall, 864.656.3181 (voice) or 864.656.0899 (TDD).

ACADEMIC CONTINUITY PLAN FOR THIS COURSE:

Clemson has developed an Academic Continuity Plan for academic operations. Should university administration officially determine that the physical classroom facility is not available to conduct classes in, class will be conducted in a virtual (online) format. The University issues official disruption notifications through email /www /text notification/Social Media.

When notified, use one of the following links to navigate to Clemson Canvas where you will find important information about how we will conduct class:

Primary access link: www.clemson.edu/canva

Secondary access link, if needed: <https://clemson.instructure.com/>

You can also use the Canvas Student App.

Our activities for teaching and learning will occur through our Canvas course.

On E-Learning Day, August 29, 2019, a real-time test of the Academic Continuity Plan will be conducted. Our class will be conducted through Canvas, please follow the instructions below:

- Log into our class on Canvas to access Chapter 1 presentation.
- Study the slides with detailed notes
- Click on “MyLab and Mastering” link to access chapter 1 assignment.
- The assignment includes tutorials and multiple-choice questions related to the material presented in slides, please complete by the assigned due date.

EMERGENCY PROCEDURES:

Emergency procedures have been posted in all buildings and on all elevators. Students should review these procedures for their own safety.

COPYRIGHT STATEMENT:

Materials in some of the courses are copyrighted. They are intended for use only by students registered and enrolled in a course and only for instructional activities associated with and for the duration of the course. They may not be retained in another medium or disseminated further. They are provided in compliance with the provisions of the Teach Act. Please refer to the Use of Copyrighted Materials and “Fair Use Guidelines” policy on the Clemson University website for additional information (link <https://clemson.libguides.com/copyright>).

PROPOSED COURSE SCHEDULE

This schedule is tentative and subject to change

Date	Topic
8/22/19	Introduction to the course
8/27/19	Reading: Environment, Sustainability, and Science (<i>Ch. 1</i>)
8/29/19	e-Learning Day – No in classroom instruction (Additional information will be sent via email)
09/03/19 – 09/05/19	Reading : Environmental Ethics, Economics, and Policy (<i>Ch.2</i>)
09/10/19 - 09/12/19	Reading: The Physical Science of the Environment (<i>Ch.3</i>)
09/17/19	Review Session
09/19/19	<i>Exam 1</i>
09/24/19 – 09/26/19	Readings: Organism and Population Ecology and Evolution (<i>Ch.4</i>) Communities and Ecosystems (<i>Ch.6</i>)
10/01/19 – 10/03/19	Reading: Climate Change an Global Warming (<i>Ch.9</i>)

10/08/19 – 10/10/19	Reading: Air Quality (<i>Ch.10</i>)
10/15/19	No classes - Fall Break
10/17/19	Exam 2
10/22/19– 10/24/19	Reading: Nonrenewable Energy and Electricity (<i>Ch.14</i>)
10/29/19 – 10/31/19	Reading: Nonrenewable Energy and Electricity (<i>Ch.14</i>)
11/05/19 – 11/07/19	Reading: Renewable Energy and Energy Conservation (<i>Ch. 15</i>)
11/12/19	Reading: Waste Management (<i>Ch.17</i>)
11/14/19	Exam 3
11/19/19	Final project presentations
11/21/19 - 11/26/19	Final project presentations
11/28/19	Thanksgiving Holiday
12/03/19 – 12/05/19	Final project presentations

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.