

ENSP 2000-004 SPRING 2022

INTRODUCTION TO ENVIRONMENTAL SCIENCE

AND POLICY

Course Syllabus

CLASS TIMES AND LOCATIONS:

Tuesdays & Thursdays: 11:00 am – 12:15 pm; 217 Daniel Hall

COURSE MODALITY: In person.

INSTRUCTOR:

Dr. Minory Nammouz

Office: 437 Brackett Hall

E-mail: mnammou@clemson.edu

VIRTUAL OFFICE HOURS:

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

Wednesday: 10:00am – 11:00am

Zoom Link to office hours will be posted on Canvas.

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

REQUIRED TECHNICAL SKILLS

To be successful in this course, you must have a minimum working knowledge of your computer system, a web browser, and a word processing program.

For technical assistance with the course site, students should contact ithelp@clemson.edu or visit [CCIT's website](#).

ONLINE ACCESS:

Canvas:

Canvas is the course management system that is used for this course. It can be accessed at <http://www.clemson.edu/canvas/> . Login into Canvas using your Clemson University user ID and password. Once in Canvas select “S2201-ENSP-2000-004-17587” to access the course components.

Please note: The student's responsibility is to check for course announcements on Canvas and CU email at least once a day. Missing any assignments or deadlines due to not following up with directions sent by email or posted on Canvas will not be excused.

MyLab and 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.

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	22%
Final project	15%
Final paper	8%
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 open Zoom meeting in that time.

ATTENDANCE POLICY:

Attendance to lectures is required, most of the assignments will be completed during class time, missing any of the assignments for unexcused absence will result in a zero grade. Excused absences include documented illness, official university functions, court attendance, religious observances, military duty, and funeral attendance. For your absence to be evaluated, you should use the Notification of Absence form in Canvas to initiate this notification, which can be found under the “Help” button on the left navigation, and documented evidence might be required for your absence to be excused. Students are responsible for all missed assignments and announcement made during their absence. In the case of an absence, each student is responsible for all work missed. It is not the professor’s responsibility to fill you in on what you missed via email. Therefore, students must come to class prepared following an absence, excused or unexcused. Please obtain the phone numbers and e-mails of a couple of classmates, so that you can find out what has been covered and what will be expected for the next class.

Link to the class lecture Zoom recording will be shared with students with excused absence only.

If a student accumulates three unexcused absences prior to the final day to withdraw from the course (3/18/22), student may be dropped from class for non-attendance.

COVID-19 RELATED INFORMATION: Please follow university mask policy. Masks are a key tool for controlling transmission of the virus.

You are expected to attend all lectures in person unless you are in quarantine or isolation, or you have another medical or other valid excuse. Recognizing that medical absences are possible, lectures will be recorded on Zoom. If you have a medically excused absence, you will be given access to lecture recording. If your absence is not medically excused, you will be marked as absent (see above for how this may impact your grade).

IN THE CASE OF INCLEMENT WEATHER:

Any exam that was scheduled at the time of a class cancellation due to inclement weather, University power outage, etc. will be given at the next class meeting unless contacted by the instructor. Any assignments due at the time of a class cancellation due to inclement weather will be due at the next class meeting unless the instructor contacts students.

E-MAIL CORRESPONDENCE:

The instructor will respond to all inquiries, questions and other electronic correspondence within 36 hours excluding weekends and university holidays. All e-mail messages from the instructor will be sent to the students Clemson e-mail address.

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 infractions of academic dishonesty by undergraduates must be reported to Undergraduate Studies for resolution through that office. In cases of plagiarism instructors may use the Plagiarism Resolution Form.

See the [Undergraduate Academic Integrity Policy](#) website for additional information and [the current catalogue](#) for the policy.

STUDENTS ACCESSIBILITY:

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 this class should let the instructor 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 at all possible, but there could be a significant wait due to scheduled appointments. Students who have accommodations are strongly encouraged to request, obtain and send these to their instructors [through the AIM portal](#) 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 at the [Student Accessibility website](#). Other information is at the university's [Accessibility Portal](#).

TITLE IX POLICY:

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 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 [Title IX policy](#) is located on the Campus Life website. Ms. Alesia Smith is the Clemson University Title IX Coordinator, and the Executive Director of Equity Compliance. Her office is located at 223 Brackett Hall, 864.656.0620. Remember, email is not a fully secured method of communication and should not be used to discuss Title IX issues.

EMERGENCY PREPAREDNESS

Emergency procedures have been posted in all buildings and on all elevators. Students should be reminded to review these procedures for their own safety. All students and employees should be familiar with guidelines from the Clemson Police Department. [Visit here for information about safety.](#)

Clemson University is committed to providing a safe campus environment for students, faculty, staff, and visitors. As members of the community, we encourage you to take the following actions to be better prepared in case of an emergency:

1. Ensure you are signed up for [emergency alerts](#)
2. Download the [Rave Guardian app](#) to your phone
(<https://www.clemson.edu/cusafety/cupd/rave-guardian/>)
3. Learn what you can do to [prepare yourself](#) in the event of an active threat
(<http://www.clemson.edu/cusafety/EmergencyManagement/>)

COPYRIGHT STATEMENT:

Materials in this course should be considered to be copyrighted. They are intended for use only by students registered and enrolled in the 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. Students must seek permission from instructors to record any class activity, including lectures, discussions, and presentations. You 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
1/13/22	Introduction to the course
1/18/22-1/20/22	Reading: Environment, Sustainability, and Science (<i>Ch. 1</i>)
1/25/22- 1/27/22	Reading: Environmental Ethics, Economics, and Policy (<i>Ch.2</i>)
2/1/22-2/3/22	Reading: The Physical Science of the Environment (<i>Ch.3</i>)
2/8/22	The Physical Science of the Environment (Cont.)
2/10/22	Review Session
2/15/22	<i>Exam 1</i>
2/17/22 – 2/22/22	Readings: Organism and Population Ecology and Evolution (<i>Ch.4</i>)

2/24/22	Communities and Ecosystems (<i>Ch.6</i>)
3/1/22	Reading: Climate Change and Global Warming (<i>Ch.9</i>)
3/3/22-3/8/22	Reading: Air Quality (<i>Ch.10</i>)
3/10/22	Exam 2
3/15/22- 3/17/22	Water (<i>Ch.11</i>)
3/22/22 – 3/24/22	No Classes- Spring Break
3/31/22	Reading: Nonrenewable Energy and Electricity (<i>Ch.14</i>)
4/5/22	Reading: Renewable Energy and Energy Conservation (<i>Ch. 15</i>)
4/7/22	Reading: The Environment and You (<i>Ch.19</i>)
4/12/22	Exam 3
4/14/22	Finalizing project drafts – group work
4/19/22 – 4/28/22	Final project presentations
5/4/22	Final Paper Due by 5:30pm

IMPORTANT DATES FROM THE ACADEMIC CALENDAR:

January 17, M	Martin Luther King Jr. holiday
January 19, W	Last day to register or add a class, or declare Audit
January 26, W	Last day to drop a class or withdraw from the University without a W grade
March 18, F	Last day to drop a class or withdraw from the University without final grades
Mar 21-25, M-F	Spring break
April 11, M	Registration for summer and fall terms begin
May 2-6, M-F	Examinations

ASSESSMENT AND EVALUATION:

Homework/Classwork (22% of your grade): Most of the assignments will be completed during class time; therefore, you are responsible for attending all class meetings and turning all homework/classwork assignments.

Exams (55% of your grade): The course will include three exams during the semester, No Cumulative Final Exam.

Final Project (15% of your grade): 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 must be approved by the professor. In addition, you will write an individual short paper to reflect on your team’s project. detailed instructions will be provided later during the semester.

Final Paper (8% of your grade): You will write a final paper to reflect critically on your final project. Students will be allowed to exempt final paper if they accumulated a grade of “A” in the class by the last day of classes for this semester.