

<p><i>ENSP 2000-002 FALL 2020</i></p> <p><i>INTRODUCTION TO ENVIRONMENTAL SCIENCE</i></p> <p><i>AND POLICY</i></p>	<p>Course Syllabus</p>
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CLASS TIMES AND LOCATIONS:

Tuesdays & Thursdays: 12:30 pm – 2:00 pm; 438 Brackett Hall

INSTRUCTOR:

Dr. Minory Nammouz

Office: 437 Brackett Hall

E-mail: mnammou@clemson.edu

OFFICE HOURS:

Virtual via Zoom

Between 8/19/20 – 9/21/20:

Tuesday: 11:00am – 12:00pm; Wednesday: 1:00pm – 2:00pm

After 9/21/20

Tuesday: 9:30am – 11:00am; 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.

COURSE MODALITY:

The first month of class (until 9/21) the class will be fully asynchronous. After 9/21, the course will follow a hybrid – flipped classroom format. Students will attend class on their assigned day of the week, students that are not present in class will be engaged through live video and online assignments. The class will follow a flipped classroom model, in this model, students will interact with new material through pre-recorded lectures, then class time will be used to discuss and practice the new material.

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

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 “[S2001-ENSP-2000-003](#)” 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.

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	12%
Final paper	8%
Peer evaluation	3%
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 as scheduled for in-person meetings. Students are expected to arrive on time for class.
- Excused absences include documented illness (including COVID-19-related illness), official university functions, court attendance, religious observances, military duty, and funeral attendance.
- Students should contact the instructor to make up missed assignments.
- Missing two lab activities or more, in-person or online without communicating the reasons with the instructor (see previous item for definition of excused reasons) will result in an incomplete grade for this course.
- Students are responsible for contacting the instructor to make up missed assignments during their absence.

INCLEMENT WEATHER STATEMENT

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.

COVID-19 RELATED INFORMATION

For a student who reports testing positive or is being asked to quarantine/isolate because of exposure to the virus, it will be up to the student to inform the instructor that they will be moving to online only instruction for at least the next two weeks. Students can use the Notification of Absence module in Canvas to initiate this notification. Students should follow up with their instructor to develop a continued plan of study for each course. Students will not be penalized in their grade for needing to move to online instruction.

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 should be turned off during class.

- Laptops are permitted to 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 always conduct themselves in a professional manner. 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 or by emailing studentaccess@lists.clemson.edu. 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. The University is committed to combatting sexual harassment and sexual violence. As a result, you should know that University faculty and staff members who work directly with students are required to report any instances of sexual harassment and sexual violence, to the University’s Title IX Coordinator. What this means is that as your professor, I am required to report any incidents of sexual harassment, sexual violence or misconduct, stalking, domestic and/or relationship violence that are directly reported to me, or of which I am somehow made aware. There are two important exceptions to this requirement about which you should be aware: Confidential Resources and facilitators of sexual awareness programs such as "Take Back the Night and Aspire to be Well" when acting in those capacities, are not required to report incidents of sexual discrimination. Another important exception to the reporting requirement exists for academic work. Disclosures about sexual harassment, sexual violence, stalking, domestic and/or relationship violence that are shared as part of an academic project, a research project, classroom discussion, or course assignment, are not required to be disclosed to the University’s Title IX Coordinator. This policy is located at <http://www.clemson.edu/campus-life/campus-services/access/title-ix/>. Ms. Alesia

Smith is the Executive Director for Equity Compliance and the Title IX Coordinator. Her office is located at 223 Holtzendorff Hall, phone number is 864.656.3181, and email address is alesias@clemson.edu.

COVID-19 RELATED EXPECTATIONS FOR FACE COVERINGS:

While on campus, face coverings are required in all buildings and classrooms. Face coverings are also required in outdoor spaces where physical distance cannot be guaranteed. Please be familiar with the additional information on the [Healthy Clemson](#) website, such as the use of wipes for in-person classes. If an instructor does not have a face covering or refuses to wear an approved face covering without valid accommodation, students should notify the department chair. If a student does not have a face covering or refuses to wear an approved face covering without valid accommodation, the instructor will ask the student to leave the academic space and may report the student’s actions to the [Office of Community & Ethical Standards](#) as a violation of the Student Code of Conduct. If the student’s actions disrupt the class to the extent that an immediate response is needed, the instructor may call the Clemson University Police Department at 656-2222.

SAFE CAMPUS ENVIRONMENT:

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:

- a. Ensure you are signed up for emergency alerts (<https://www.getrave.com/login/clemson>),
- b. Download the Rave Guardian app to your phone (<https://www.clemson.edu/cusafety/cupd/rave-guardian/>)
- c. Learn what you can do to prepare yourself in the event of an active threat(<http://www.clemson.edu/cusafety/EmergencyManagement/>)

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 in tentative and subject to change

Date	Topic
8/20/20	Introduction to the course
8/25/20-8/27/20	Reading: Environment, Sustainability, and Science (<i>Ch. 1</i>)
09/01/20– 09/03/20	Reading: Environmental Ethics, Economics, and Policy (<i>Ch.2</i>)

09/08/20 - 09/10/20	Reading: The Physical Science of the Environment (<i>Ch.3</i>)
09/15/20	The Physical Science of the Environment (Cont.)
09/17/20 - 09/22/20	Readings: Organism and Population Ecology and Evolution (<i>Ch.4</i>)
09/24/20	<i>Review Session</i>
09/29/20	Exam 1
10/01/20	Communities and Ecosystems (<i>Ch.6</i>)
10/06/20 – 10/08/20	Reading: Climate Change and Global Warming (<i>Ch.9</i>)
10/13/20 – 10/15/20	Reading: Air Quality (<i>Ch.10</i>)
10/20/20 - 10/22/20	Water (<i>Ch.11</i>)
10/27/20	<i>Review Session</i>
10/29/20	Exam 2
11/03/20	No Classes – Fall Break
11/05/20	Reading: Nonrenewable Energy and Electricity (<i>Ch.14</i>)
11/10/20	Reading: Renewable Energy and Energy Conservation (<i>Ch. 15</i>)
11/12/20	Reading: The Environment and You (<i>Ch.19</i>)
11/17/20	Exam 3
11/19/20 11/24/20 11/26/20	Final project presentations
11/26/20	No Classes – Thanksgiving Holiday
12/01/20 – 12/03/20	Final project presentations
Due on 12/07/20 at 5:30 pm	Final Paper

ASSESSMENT AND EVALUATION

Homework/Classwork: Part of your homework will be watching and interacting with pre-recorded lectures and most of the class assignments will be posted on MyLab and Mastering. In addition you will be engaged in additional class discussion and problem solving.

Exams: The course will include three exams during the semester, **No Cumulative Final Exam**. The exams will be administered online on Canvas through the LockDown browser.

Final Project : 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: You will write a final paper to reflect critically on your final project. Details will be provided later in the semester. Students having grade of A on the coursework prior to final exams week will be exempt from this assignment.