

Natural Resource & Environment (NRE) 1000
Environmental Science
Avery Point UConn Fall 2016

Lecture Schedule: T/TH 11:00 – 12:15 PM
Class Location: Marine Science Building 122
Instructor: Dr. Syma Ebbin
Contacts: Office: Marine Science Building Rm 301D
Office Phone: 860 405-9278
E-mail: syma.ebbin@uconn.edu
Office Hours: Immediately after class and by appointment

Textbook: (ES) Environmental Science: Toward A Sustainable Future, 13th Edition
Richard T. Wright, Dorothy F. Boorse, Gordon College, Pearson (2017).

Additional resources: Additional required readings, as indicated in the syllabus, are available on the NRE 1000 HuskyCT website under the Additional Readings tab (AR) and Electronic Course Reserve (ECR).

This course will also use **i-clicker 2 technology**. You are expected to purchase, register with the professor, and bring to each class your i-clicker2; available at the campus bookstore (Coop).

Catalogue Description: An introduction to basic concepts and areas of environmental concern and how these problems can be effectively addressed. Topics include human population, ecological principles, conservation of biological resources, biodiversity, croplands, rangelands, forestlands, soil and water conservation, pollution and water management, wildlife and fisheries conservation.

Course Goals and Objectives: The course is designed to give students a basic understanding of environmental science and the structure, function and dynamics of natural systems, the science behind environmental problems and insights into how these problems can be effectively addressed.

The specific objectives of the course are:

1. To introduce basic scientific principles and concepts that can be used to understand and analyze environmental and natural resource problems.
2. To identify and study important global, national and local environmental issues and problems.
3. To explore potential solutions to these problems
4. To apply the scientific concepts and approaches introduced during the course to assess alternative strategies.

Credits earned by taking NRE 1000 count towards meeting Natural Science requirements (Content Area 3) of UConn's General Education Requirements.

Lecture Topics and Reading Assignments

<u>Date</u>	<u>Topics</u>	<u>Reading Assignment</u>
8/30	Course overview and introductions Focus: Rachel Carson & the Environment Focus: Environmental Education	Handouts ES 1
9/1	Environmental Jeopardy Overview of environmental problems and causes	[AR] UNEP N. Am Regional Assessment [AR] Human domination of Earth
9/6	Science and Scientific Method Ecological footprints	ES pp. 12-17, chpt 3 footprint assignment due
9/8	Basic Needs of Living Things	ES 3
9/13	Populations and Communities	ES 4
9/15	Populations and Communities	ES 4
9/20	Ecosystems	ES 5
9/22	Campus field trip/Scavenger Hunt	ES7 (pp155-168; 174-182)
9/27	Terrestrial Ecosystems: Uses, Threats, Conservation Environmental Education and Outreach Service Learning Project discussion	[AR] Service Learning Project Materials [AR] Environmental Education readings [AR] CT Lands of Auld Land Syne Scavenger hunt due
9/29	Field trip to GOSA properties	[AR] GOSA readings; Handouts
9/29	<i>Global Café movie: The Power of One Voice: A Film Exploring the Impact of Rachel Carson's Life and Work 12:30-1:30</i>	
10/4	Human Population Change	ES 8 Service Learning Reflection 1 due
10/6	Colonel Ledyard Cemetery Field trip	handouts
10/11	1ST Hour Exam	
10/13	UConn Library Resources: Environmental/Ed Research Guest Speaker: Beth Rumery	handouts Meet in MSB 104 (computer room)
10/18	Human Population and Development	ES 9 Human Survivorship HW due
10/19	<i>Rachel Carson Lecture (by Linda Lear) at Connecticut College location and time TBD</i>	
10/20	Water: Hydrologic Cycle: Uses & Impairments	ES 10, pp. 498-506; 513-520

10/20 Global Café: interdisciplinary faculty panel event exploring the Legacy of Rachel Carson 12:30-1:30pm in the Student Center Glass Room.

10/25 Water continued

10/27 Water continued

11/1 Water pollution pp. 498-506; 513-520
Ocean Ecosystems: Use, Threats, Conservation ES pp 168-173
[AR] Oceans in Peril

11/3 Rachel Carson: Silent Spring [AR] Silent Spring selections
Hazardous Chemicals: Pollution/Prevention ES 22

11/3 Global Café movie: Rachel Carson's The Sea Around Us, 12:30-1:45 Room 308

11/7 Global Café movie: A Fierce Green Fire: The Battle for a Living Planet, 7:30pm

11/8 Non-renewable Energy ES 14, 15

11/10 Renewable Energy ES 16
Draft Service Projects Due

11/15 **2nd Hour Exam**

11/17 **ANWR Public Lands-Energy Debate** [AR] ANWR
Research energy debate materials

11/22 and 11/24 Thanksgiving Recess: No Classes

11/29 Global Atmospheric Change ES 18
Service Learning Reflection II due

12/1 Sustainable Communities ES 23

12/1 Global Café Movie: Love Thy Nature, 12:30-1:45

12/6 Service Learning Projects Due; Present to Class and GOSA BOD

12/8 Future trajectories [AR] It's not Climate Change (Atwood)
[AR] Three Planetary Futures
Service Learning Reflection II due

12/16 11am – 1pm

****This syllabus reflects a tentative schedule and should be treated as a flexible, living document that may be changed to reflect our actual progress.**

Grading:

1. 2 Hour exams	40% (20% each)
2. Final exam	20%
3. Service Learning Assignment and 2 reflection essays	25%
4. Participation (debates, field trips, I-clicker, quizzes, discussions)	10%
5. <u>In-class &HW assignments</u>	<u>5 %</u>
Total	100%

Course Requirements:

1. Two hour exams and a comprehensive final exam.
2. Completion of the service learning project and two brief reflection papers
3. Active, skilled and prepared participation in all class discussions, debates, field trips
4. Participation and successful completion of in-class i-clicker discussion and quizzes (classes will begin with brief i-clicker quiz of assigned readings)
5. Satisfactory completion of all homework and in-class writing assignments

Point distribution and grading:

≥94	A	74-76	C
90-93	A-	70-73	C-
87-89	B+	67-71	D+
84-86	B	64-66	D
80-83	B-	60-63	D-
77-79	C+	≤59	F

Exams will cover material in the lectures, movies and required readings. Make-up exams will be given for excused absences only. Excused absences include, but are not limited to a) student sickness, b) university sanctioned activity. Excused absences should be documented with a letter from your doctor or other appropriate authority. The final exam will be cumulative.

Quizzes on assigned readings will be administered each class via i-clicker technology.

Homework Assignments and In-class Assignments: Homework and in-class writing assignments will be given throughout the semester. All HW assignments should be typed and double-spaced.

Service Learning - Groton Open Space Assn. Environmental Education Projects: Our class has been asked by the Groton Open Space Association to develop environmental education materials related to their properties in Groton which are open to the public for passive recreation. We will visit several of these parcels during the semester. The class will break into teams, each tackling separate aspects of project. The products will be due initially in-class on November 1 and revised incorporating feedback, to be submitted and presented in-class on December 6. Two brief 2-3 page reflections papers are also required to allow students to reflect on the preconceptions, challenges and learning that occur during the work (reflection I due: 9/29; reflection II due: 12/8). More detail will be forthcoming on the nature of the products to be produced.

All students are expected to schedule meetings with me regularly in your groups to conference about your service project progress.

Successful class participation depends on attention to lecture material, completing the assigned readings and participating regularly in class discussions and debates and attending all field trips and out of class activities. Participation includes skilled research and active contribution to all class debates.

Avery Point Global Café During the fall 2016 semester the Avery Point Global Café will explore the work of groundbreaking scientist, conservationist, and visionary Rachel Carson (1907-1964), who served as one of the first full-time female fisheries scientists hired by a US federal agency. This theme offers course connections and discussions relating to the environment, the development of the modern environmental movement, the role of gender in science and the impacts of biocides on soil and water, wildlife, and human health. The Global Cafe embraces intersections of unique disciplinary perspectives relating to these themes brought forth through Carson's seminal work, *Silent Spring* (1962).

The Global Café will host an interdisciplinary faculty panel event in October, and three film screenings (Sept, Oct & Nov.) relating to Carson's work. A complete schedule of events will be provided when available.

Teale Lecture Series is held on Thursday afternoons at 4PM at the Dodd Center on the Storrs campus. Lectures are streamed live on the Avery Point campus and archived online for viewing (see: <http://doddcenter.uconn.edu/asc/events/teale/teale.htm>). You are strongly urged to attend all of these lectures.

Class Policies

Student Conduct Code:

All students have the responsibility to uphold the University of Connecticut Student Conduct Code. Violations of the Student Conduct Code related to this course will be brought to the attention of the student and possibly the Dean of Students with appropriate actions. Copies of the Student Conduct Code can be obtained at the Dean of Students Office or at http://www.community.uconn.edu/student_code.html.

Academic Integrity:

A fundamental tenet of all educational institutions is academic honesty; academic work depends upon respect for and acknowledgement of the research and ideas of others. Misrepresenting someone else's work as one's own is a serious offense in any academic setting and it will not be condoned.

Academic misconduct includes, but is not limited to, providing or receiving assistance in a manner not authorized by the instructor in the creation of work to be submitted for academic evaluation (e.g., papers, projects, and examinations); any attempt to influence improperly (e.g., bribery, threats) any member of the faculty, staff, or administration of the University in any matter pertaining to academics or research; presenting, as one's own, the ideas or words of another for academic evaluation; doing unauthorized academic work for which another person will receive credit or be evaluated; and presenting the same or substantially the same papers or projects in two or more courses without the explicit permission of the instructors involved. A student who knowingly assists another student in committing an act of academic misconduct shall be equally accountable for the violation, and shall be subject to the sanctions and other remedies described in The Student Code.

In this class, I will prosecute all forms and instances of academic misconduct that occur, with consequences that include, but are not limited to, receiving a zero on the assignment or failure in the course. If you have questions about whether a particular behavior constitutes academic misconduct

(cheating, plagiarism, etc.), please consult me, or one of the tutors/staff in the Academic Center. More information on the university's academic integrity policy can be found at: http://www.community.uconn.edu/academic_integrity.html.

Attendance: UConn does not require attendance at lectures. However you will NOT succeed in this course without active participation which is included as a part of your grade. You are expected to inform the instructor BEFORE class via e-mail or phone if you will not be in class. To receive full credit for assignments they must be turned in before or during the class period. Make-up exams and quizzes are given only for legitimate excused absences.

Absence of students due to religious beliefs: Students should inform their instructor about any potential conflicts with scheduled exams or other assignments and a religious holiday that they observe. For conflicts with final examinations, students should, as usual, contact the Office of Student Services and Advocacy (formerly the Dean of Students Office).

Missed Exams and Quizzes: Make-up exams and quizzes will be given for excused absences only. Excused absences include, but are not limited to a) student sickness, b) university sanctioned activity. Excused absences must be documented with a letter from your doctor or other appropriate authority.

University Final Exam Policy: Final exams are scheduled by the university and students are required to be available for their exam during the scheduled time. If you have a conflict with this time you must contact Trudy Flannery or the Office of Student Services and Advocacy to discuss the possibility of rescheduling this exam. Please note that vacations, previously purchased tickets or reservations, graduations, social events, misreading the exam schedule and over-sleeping are not viable excuses for missing a final exam. If you think that your situation warrants permission to reschedule, please contact Trudy Flannery or the Office of Student Services and Advocacy with any questions as soon as possible.

Late Submission of papers and homework assignments will be accepted but have a grading penalty applied for lateness: a full grade decrease for each class period missed.

Student Conduct in Class: Students are expected to come to class on time and to conduct themselves in a respectful manner. Students that are repeatedly late for class will be barred from entering after the doors have closed.

The use of cell phones, text messaging equipment, iPods, MP3 players and other electronic equipment is prohibited unless authorized by a note from the Center for Students with Disabilities. The only exception are students using their cell phones with the i-clicker 2 app. Please turn off (or set to vibrate) all pagers and cell phones before entering the classroom. In extraordinary circumstances, if an emergency arises and you must use your cell phone, excuse yourself from the classroom before accessing your phone. Any student that has a cell phone at their desk that audibly rings or any student who uses a cell phone (or any electronic device) during an examination will receive a zero for the examination or quiz.

The use of laptop computers is NOT permitted in class with the exception of note-taking purposes ONLY. Any student found to be accessing e-mail, the internet, games, or engaging in activities that are identified by the instructor as distracting or disrespectful to the classroom will be prohibited from utilizing his/her laptop for the entire semester.

The use of audio recording devices (eg, Smartpens) in class by students is prohibited unless authorized by a note from the Center for Students with Disabilities or accompanied by a written request (email is preferable) from the student stating their reasons for needing a recording. Such recordings are only intended for personal use of the student and may not be distributed in electronic formats or posted on the internet. Video recordings are not allowed under any circumstances.

Student-Teacher Conferencing: I expect to meet with you regularly throughout the semester to discuss items related to lectures or your work in the course. All of the members of each Service Learning group are required to meet with me throughout the semester.

Disability Policy: If you are a student with a disability and believe you'll need accommodations for this class, I am happy to accommodate your special needs. However, it is your responsibility to let me know of any special accommodations. And I cannot provide these accommodations until I've received an authorizing letter from the Center for Students with Disabilities. Please contact me to discuss academic accommodations that may be needed during the semester due to a documented disability. The Center for Students with Disabilities (CSD) engages in an interactive process with each student and reviews requests for accommodations on an individualized, case-by-case basis. Depending on the nature and functional limitations of a student's documented disability, he/she may be eligible for academic accommodations. CSD collaborates with students and their faculty to coordinate approved accommodations and services for qualified students with disabilities. If you have a documented disability for which you wish to request academic accommodations and have not contacted the CSD, please do so as soon as possible. The CSD is located in Wilbur Cross, Room 204 and can be reached at (860) 486-2020 or at csd@uconn.edu. Detailed information regarding the process to request accommodations is available on the CSD website at www.csd.uconn.edu.

UConn Policy Against Discrimination, Harassment and Inappropriate Romantic Relationships

The University is committed to maintaining an environment free of discrimination or discriminatory harassment directed toward any person or group within its community – students, employees, or visitors. Academic and professional excellence can flourish only when each member of our community is assured an atmosphere of mutual respect. All members of the University community are responsible for the maintenance of an academic and work environment in which people are free to learn and work without fear of discrimination or discriminatory harassment. In addition, inappropriate Romantic relationships can undermine the University's mission when those in positions of authority abuse or appear to abuse their authority. To that end, and in accordance with federal and state law, the University prohibits discrimination and discriminatory harassment, as well as inappropriate Romantic relationships, and such behavior will be met with appropriate disciplinary action, up to and including dismissal from the University. More information is available at <http://policy.uconn.edu/?p=2884>.

UConn Sexual Assault Reporting Policy

To protect the campus community, all non-confidential University employees (including faculty) are required to report assaults they witness or are told about to the Office of Diversity & Equity under the Sexual Assault Response Policy. The University takes all reports with the utmost seriousness. Please be aware that while the information you provide will remain private, it will not be confidential and will be shared with University officials who can help. More information is available at <http://sexualviolence.uconn.edu/>.

Some useful phone numbers and resources:

- Counseling and Mental Health Services: 860 486-4705(24 hours) www.cmhs.uconn.edu
- Alcohol and Other Drugs Services: 860 486-9431 www.aod.uconn.edu
- Dean of Students Office: 860 486-3426 www.dos.uconn.edu
- Avery Point Director of Student Affairs, Trudy Flannery: 860 405-9024
- Avery Point Academic Center: 860-405-9058
- Avery Point Student Counselor, Stephen Brewer, 860 405-09044
- Please register your phones at alert.uconn.edu to receive emergency information