

Spring 2017 MARN 1001
The Sea Around Us
Department of Marine Sciences

Lecture Schedule: T/TH 11:00 -12:15 PM
Class Location: MSB 122
Credits: Three

Instructor: Dr. Syma Ebbin
Contacts: Office: Marine Science Building Rm 301D
Telephone: 860 405-9278
syma.ebbin@uconn.edu

Office Hours: By appointment

Teaching Assistant: Allie Staniec
Contacts: allison.staniec@uconn.edu
Office Hours: By appointment

Textbooks: *The Oceans* by Ellen Prager, McGraw Hill (2000) [Oceans]
Guide to the Oceans by John Pernetta, Firefly Publishing (2004) [Guide]

Additional Resources: Additional readings are available on the MARN 1001 HuskyCT website (H) and Electronic Course Reserve (ECR).

Recommended: This course will also use i-clicker 2 technology. It is strongly suggested that students purchase, register their on HuskyCT, and bring to each class their i-clicker2; available at the campus bookstore (Coop).

Course Catalogue Description

The relationship of humans with the marine environment. Exploitation of marine resources, development and use of the coastal zone, and the impact of technology and pollution on marine ecosystems. CA 3.

Course Goals, Objectives and Learning Outcomes

This course explores the relationship of humans and the sea and provides students with an introduction to the interdisciplinary field of marine science. The course will give students a basic understanding of the sea around us. Students will be able to identify its abiotic and biotic components and processes, and explain the ways in which humans interact with this ecosystem and the implications of these interactions. Overall, students should come away with an enhanced appreciation of the critical role the marine environment has and continues to play in creating and sustaining life on earth.

Course Outline

<u>Date</u>	<u>Topic</u>	<u>Reading Assignment</u>
1/17	Intro to the Sea Around Us	handouts
1/19	Ocean Jeopardy	(H) Oceans in Peril (H) Sound Health (handout)
1/24	Studying the oceans: Exploration and Science at Sea	Guide: 62-73 Oceans: 65-71
1/26	Campus Scavenger Hunt	(H) Living treasures

1/31	Mother Ocean: Origins	Guide: pp 4-7 Oceans: 3-61 Scavenger Hunt Assignment due
2/2	SNOW DAY	
2/7	The Geological Ocean	Oceans: 141-186 Guide: 8-15; 26-29
2/9	The Geological Ocean Lab: Sand Exploration	(H) Sand Grains from Around the World
2/14	The Chemical Ocean	Guide: 30-35 Oceans: 73-78 Sand Lab Assignment due
2/16	Chemical and Physical Ocean Field Sampling: Salinity, temp and DO testing	Guide: 40-49
2/21	The Physical Ocean	Water Chemistry Assignment due
2/23	The Physical Ocean	Oceans: 78-113
2/28	The Physical Ocean Guest Julia Lopresti (SEA)	
3/2	Guest speaker RJ Burns, Captain John Haney	Handouts
3/7	HOUR TEST 1	
3/9	Field Sampling: Plankton The Biological Ocean	(H) Plankton Keys Guide: 222-236
Week of 3/14 and 3/16 NO CLASS Spring Break		
3/21	The Biological Ocean	Plankton Assignment due Oceans: 187-265 Guide: 100-138
3/23	The Biological Ocean The Anthropogenic Ocean	(H) Ecological, economic, & social importance of the oceans
3/28	Field Sampling: Seaweed collection/pressing Marine Macrophytes	(H) Seaweeds of LIS
3/30	FishBanks Game	(H) Fish Banks Game Roles NOTE: class meets in MS 104 and runs thru lunch Seaweed Assignment due

4/4	Fish Banks wrap up Fisheries and Aquaculture The Sea Around Us movie	Guide: 142-149 Oceans: 267-283 (H) PEW Ecological Effects of Fishing (H) Aquaculture
4/6	Marine Pollution Energy and Oceans	(H) Polymers are Forever Guide: 160-163; 150-159 (H) PEW: Marine Pollution
4/11	 HOUR TEST 2	
4/13	 Pine Island Field Trip	class meets at Dock behind MSB at 10:45AM (H) Pine Island
4/18	 Project O Field Trip 11:30 PM-2:00 PM	Meet at Project O at 11:20 AM; return at 2PM Pine Island Assignment Due
4/20	Energy and Oceans	Energy Debate: Research roles
4/25	Climate change and the oceans	Oceans: 130-140 Guide: 50-61 Project O Assignment due
4/27	Marine Policies and Sustainability MPAs, CMSP, EBM Ocean Frontiers	(H) Ecological Economics&Sustainable Governance (H) Interconnected Biosphere Coastal Perspectives Lecture Assignment Due
5/2	 Final Exam 10:30AM – 12:30PM	Service Project Contract and Reflection Due

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

MARN 1001 Course Requirements:

1. Two hour exams and a comprehensive final exam.
2. Active, skilled and prepared participation in all class discussions, debates, field trips,
3. Successful completion of quizzes and i-clicker questions given throughout the semester
4. Satisfactory completion of all homework and in-class writing assignments
5. Satisfactory completion of 2 hour service learning project and reflection essay

<u>MARN 1001 Evaluation</u>	<u>% of course grade</u>
Hour Exam I	18
Hour Exam II	18
Final exam	20
HW/in-class Assignments	32
Service Learning Project	7
<u>Participation/Quizzes/Debates</u>	<u>5</u>
Total	100%

Point distribution and grading:

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

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.

Quizzes on assigned readings will be administered each class via i-clicker technology and via old school paper/pen throughout the semester.

Homework Assignments and In-class Assignments: Homework and in-class writing assignments will be given throughout the semester. HW assignments should be typed and double-spaced. If you choose to turn in handwritten assignment, please make sure they are neat and legible. They are due at the time of class and should be submitted in class. Assignments turned in or received after class will be subject to the late grading penalty (see below).

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.

Service Learning Projects are aimed at making connections between the marine and coastal environment and our individual actions. Following from the Avery Point Learning Community's (Global Cafe) theme of "Civic Responsibility, Discourse, and Action," in the context of local environments, each student will engage in a service learning project of at least 2 hours that in some way improves the local coastal or marine environment or informs others about the environment. There are a lot of ways you can undertake this assignment.

You will need to complete the Service Learning Contract at the end of this syllabus, have the supervisor of your service learning experience sign and date it, and include a 2-3 page typed, double spaced reflection of your experience. Some ideas are listed below and you are invited to present additional project ideas. If you want to do a project where there would not be a supervisor to sign and date, please see me ahead of time.

Some Ideas:

- Present coastal and marine science material to an elementary school classroom
- Volunteer for a coastal cleanup at your favorite beach or watershed area.

Coastal Perspective Lecture Series is held on Tuesday evenings at 7:30 PM in the new auditorium. You are strongly urged to attend all of these lectures and must attend at least one and submit a 1-2 page reflective essay for a HW assignment due before or on 4/27.

Teale Lecture Series is held on Thursday afternoons at 4PM at the Dodd Center on the Storrs campus. Lectures are streamed live 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 and may use attendance at a Teale lecture and submission of a 1-2 page reflective essay to substitute for the Coastal Perspective HW assignment.

Avery Point Global Café will host faculty and student panels, book discussions and movies throughout the spring semester related to the theme of "Civic Responsibility, Discourse, and Action". Students are urged to take advantage

of this opportunity. A complete schedule of events will be provided as they become available. As you move through the semester, please take a moment to look for connections and explore the social justice implications of the human impacts to the marine system that we'll discuss this semester.

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 BEFORE April 24th.

Late Submissions: Late submissions of papers and homework assignments will 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.

Cell Phones, Pagers, iPods and other electronic equipment: 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. 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.

Laptops: The use of laptop computers is permitted in class for 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.

Recording Devices: 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.

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

Grading Rubric for HW assignments (10 points total possible)

Format

- 2 – on time (2 points lost for initial lateness, with 1 additional point off for each day late)
- 1 – professional in appearance: labeled with name, class, assignment; typed and double-spaced
- 2 – following directions (2 – fully; 1 – adequately but needs work)

Content

- 5 – excellent, demonstrating mastery of the material
- 4 – good but short of excellent
- 3 – adequate but could use improvement
- 2 – reflects lack of mastery of the material
- 1 – reflects serious lack of understanding of the material

0 points for assignments not turned in after 10 days without an extension based on a valid excuse.

SERVICE LEARNING CONTRACT

After you have completed 3 or more hours of service learning, please fill and turn in this form.

Name

Contact (email or phone)

Project Description (be specific)

Location

Date(s) and times

Supervisor name, signature, and e-mail or phone number

Attach a 2-3 page typed, double-spaced reflection of your service experience to this contract, including the following information:

1. Describe the SL experience: What happened? what did you learn? What did you accomplish? What puzzled you? What challenges did you face?
2. Analyze the SL experience: Describe how the SL project helped you to connect, understand and apply the course content. What have you learned? About yourself and your abilities? About open space management? About local environmental issues? What would you do differently next time? How did this project augment or detract from the course content and goals?
3. Apply the SL experience: Describe what you will do with this new knowledge and experience. How will you move forward and how do you think this experience will benefit you in the future? What impact do you think your project will have for the town and beyond?