ENSP 342
Environmental Threats to Oceans and Coasts: Towards an Integrated Policy Response
Spring 2021
Tuesday/Thursday 2:00pm – 3:15pm
ONLINE - ZOOM
Syllabus

Instructor:
Ms. Annette Spivy - Lecturer, Environmental Science and Policy Program
Symons Hall 0214
aspivy@umd.edu

Office hours: by appointment

Overview of the Course

This course will provide interdisciplinary study of the world's oceans and coasts as we consider the challenge of maintaining their health and vitality in the face of multiple environmental threats, including climate change, pollution, over-fishing, and habitat disturbance. Specific environmental challenges will be covered in lecture and readings to provide an understanding of underlying scientific, social and economic issues, and current policy-related developments. During the final component of the course we will discuss and analyze recent efforts towards providing an integrated policy response, such as ecosystem-based management and marine spatial planning.

Goals/Learning Outcomes for the Course:

- Students will demonstrate the ability to identify and describe the (1) environmental problems facing the oceans and (2) policy responses to those problems by successfully completing mid-term and final exams covering these subjects.

- Students will demonstrate the ability to synthesize and summarize an original research article or government panel report and present an oral presentation on this summary

- Students will demonstrate the ability to formulate an integrated and interdisciplinary response to current ocean management issues by completing a group report and presentation on marine spatial planning for an assigned region.

Course Materials:

*Secretariat of the Convention on Biological Diversity (CBD), 2012. Impacts of Marine Debris on Biodiversity: Current Status and Potential Solutions. CBD Technical Series No. 67

*Noone, K.J., U.R. Sumaila and R.J. Diaz. 2013. Managing Ocean Environments in a Changing Climate. Elsevier Press. ISBN 978-0-12-407668-6
http://feru.sites.olt.ubc.ca/files/2013/07/Noone_Sumaila_Rogers-2013-Book.pdf

*Final Recommendations of the Interagency Ocean Policy Task Force, July 19, 2010.

*Buck, E. H. 2012. Ballast Water Management to Combat Invasive Species. Congressional Research Service RL32344.

*Available on ELMS-Canvas Files Section

Evaluation and Grading Criteria

A total of 1000 points is possible from the following cumulative sources; (a) Mid-term test 20%; (b) Final examination 20%; (c) Individual Paper 25% (d) Final Integrated Assignment Group Project 20%; and (e) Reading Reflections/Discussion 15%;

Grades will be determined based on the following distribution: 100-98% = A+, 97-92 = A, 91-90 = A-; 89-88 = B+, 87-82 = B, 81-80 = B-; 79-78 = C+, 77-72 = C, 71-70 = C-; 69-68 = D+, 67-62= D, 61-60 = D-; ≤ 59 = F.

Course Reading and Reading Quizzes

Assigned reading materials are listed in the Schedule of Readings and Assignments below. Students are expected to read course material for each week prior to each Tuesday lecture. Reading reflections are due every week as listed on ELMS Canvas.

Course Policies
Late Policy

Unless you see me in advance of the due date and obtain an approved excuse, 5 percent of the total possible points will be deducted from your score for every day the assignment is late, including weekend days. (So, for example, on a 100-point scale, a student who would have earned a 94 on a timely paper will earn 89 if the same paper is turned in one date late, 84 if turned in 2 days late, etc.).

Attendance and Absences:

In accordance with University policy, students are expected to attend classes regularly and on-time. Attendance will not be taken on a regular basis, but failure to attend class is likely to impact your grade because the lecture materials will be a primary source of exam material.

An absence will only be considered excused under the circumstances described by the University's attendance policy, available at:
http://www.umd.edu/catalog/index.cfm/show/content.section/c/27/ss/1584/s/1540.

Netiquette Policy

Netiquette is the social code of online classes. Students share a responsibility for the course's learning environment. Creating a cohesive online learning community requires learners to support and assist each other. To craft an open and interactive online learning environment, communication has to be conducted in a professional and courteous manner at all times, guided by common sense, collegiality and basic rules of etiquette.

Communication with Peers:

With a diversity of perspectives and experience, we may find ourselves in disagreement and/or debate with one another. As such, it is important that we agree to conduct ourselves in a professional manner and that we work together to foster and preserve a virtual classroom environment in which we can respectfully discuss and deliberate controversial questions.

I encourage you to confidently exercise your right to free speech—bearing in mind, of course, that you will be expected to craft and defend arguments that support your position. Keep in mind that free speech has its limit and this course is NOT the space for hate speech, harassment, and derogatory language. I will

make every reasonable attempt to create an atmosphere in which each student feels comfortable voicing their argument without fear of being personally attacked, mocked, demeaned, or devalued.

Any behavior (including harassment, sexual harassment, and racially and/or culturally derogatory language) that threatens this atmosphere will not be tolerated. Please alert me immediately if you feel threatened, dismissed, or silenced at any point during our semester together and/or if your engagement in discussion has been in some way hindered by the learning environment.

Academic Accommodations:
If you have a documented disability, please contact Disability Support Services 0126 Shoemaker Hall. Each semester students with documented disabilities should apply to DSS for accommodation request forms which you can provide to your instructors as proof of your eligibility for accommodations. The rules for eligibility and the types of accommodations a student may request can be reviewed on the DSS website at http://www.counseling.umd.edu/DSS. Please provide your documentation to me well in advance of any scheduled due dates or exams so that I can be sure that all of your accommodation needs are satisfied.

Religious Observances
The University System of Maryland policy provides that students should not be penalized because of observances of their religious beliefs. Students shall be given an opportunity, whenever feasible, to make up within a reasonable time any academic assignment that is missed due to individual participation in religious observances. *It is the responsibility of the student to inform the instructor of any intended absences for religious observances in advance.* Notice should be provided as soon as possible but no later than the end of the schedule adjustment (drop/add) period.

Code of Academic Integrity
Academic dishonesty (such as cheating on exams, plagiarism from the internet or other students, submitting the same paper for credit in two courses without authorization, buying papers, submitting fraudulent documents and forging signatures) is unacceptable and will result in referral to the Student Honor Council after which a determination of a violation will result in a failing grade in the course and a note on your transcript indicating a violation of the rules of academic integrity. The University's Code of Academic Integrity sets standards for academic integrity at Maryland for all undergraduate and graduate students. As a student, you are responsible for upholding these standards for this course:

1. No cheating ("intentionally using or attempting to use unauthorized materials, information, or study aids in any academic exercise");

2. No fabrication ("intentional and unauthorized falsification or invention of any information or citation in an academic exercise");

3. No facilitating academic dishonesty ("intentionally or knowingly helping or attempting to help another to violate any provision of this Code");

4. No plagiarism ("intentionally or knowingly representing the words or ideas of another as one's own in any academic exercise").

For more information on the Code of Academic Integrity or the Student Honor Council, visit www.shc.umd.edu.

Copyright Protection for Class Materials

Commercial firms have been paying students to take notes and collect course materials, which are then copied and sold. Course materials that exist in a tangible medium, such as written or recorded lectures, Power Point presentations, handouts and tests, are copyright protected. Students **may not** copy and

distribute such materials except for personal use and with the instructor's permission.

Course Evaluation
Your participation in the evaluation of courses through CourseEvalUM is a responsibility you hold as a student member of our academic community. Your feedback is confidential and important to the improvement of teaching and learning at the University. By completing all of your evaluations each semester, you will have the privilege of accessing online, at Testudo, the evaluation reports for the thousands of courses online at Testudo. Evaluations can be completed at www.courseevalum.umd.edu.

Schedule of Readings and Assignments:

Part I: Environmental Threats to Oceans and Coasts: Climate Change and Pollution

Week 1 January 26/ 28. Introduction to Oceans/ Ocean Jurisdiction

Week 2 February 2/4. Ocean Jurisdiction / Marine and Coastal Processes
        Reading: Noone, Chapter 1
        Final Integrated Assessment Groups Assigned

Week 3 February 9/11. Climate Change: Ocean Acidification and Ocean Warming
        Reading: Noone, Chapters 2-3

Week 4 February 16/18. Coastal Pollution: Agriculture, Municipal and Stormwater Runoff
        Reading: Noone, Chapter 4

Week 5 February 23/25. Coastal Pollution *finish*/ Marine Pollution: Energy, Industry, and Military
        Reading: Noone, Chapter 6

Week 6 March 2/4. Ocean Pollution: Marine Debris and Ocean Dumping
        Reading: CBD, 2012 p.11-38

Week 7 March 9/11. Mid-term Review and Mid-term Examination

March 16/18 - SPRING BREAK

Part II: Environmental Threats to Oceans and Coasts: Over-Fishing and Habitat Disturbance

Week 9 March 23/25. Over-Fishing and Fisheries Management
        Reading: Noone, Chapter 7; Lilly et al. 2013

Week 10 March 30/April 1 Guest Speaker
Reading: Buck, 2012.

Week 11 April 6/8. Invasives/ Coastal Systems and Marine aquaculture
Reading: Noone, Chapter 5

Week 12 April 13/15. Coastal Zone Management
Final Integrated Assignment Group Meetings
Papers Due – 4/18 by midnight

Part III. Towards on Integrated Policy Response

Week 13 April 20/22. Impacts of Multiple Stressors
Reading: Noone, Chapters 8, 11

Week 14 April 27/29. Coastal and Marine Spatial Planning/ MPAs/ **Group Presentations**

        Reading: Noone Chapter 12; Ocean Policy Task Force, 2010

Week 15 May 4/6. Coastal and Marine Spatial Planning/ MPAs/ **Group Presentation**
        Reading: Noone Chapter 12; Ocean Policy Task Force, 2010

Week 16 May 11. Final Exam