GENERAL INFORMATION

PROFESSOR INFORMATION

Instructor: Robert Burgman
Phone: (305) 348-6395
Office: AHC-5, 362
Office Hours: MWF 1-3pm, By Appointment
E-mail: rburgman@fiu.edu
My Website: http://faculty.fiu.edu/~rburgman/

We will be using Canvas for class assignments, lecture notes etc.
Time: Monday, Wednesday, Friday, 12:00PM - 12:50PM
Location: Green Library, room 166

COURSE DESCRIPTION AND PURPOSE

An in depth understanding of the physical properties of the ocean including morphology, chemistry, waves, tides, currents and its interactions with the atmosphere and coastline.

COURSE OBJECTIVES

1. Examine the history, present-day, and future of oceanography as a developing discipline.
2. Explore the structure of the Earth, the physiography of the ocean floor, and the origin of ocean basins.
3. Recognize the chemical and physical properties of water and its interactions with other substances.
4. Describe physical processes influencing the ocean and coastal regions
5. Describe the interaction of the ocean with the atmosphere, and the distribution of oceanic winds, currents, heat fluxes, and water masses
6. Learn about the origin and motions of waves and tides.
7. Examine the natural and human-made forces that affect shorelines and their coastal habitats.
8. Discuss how the ocean’s resources are exploited, managed, and protected.

COURSE PREREQUISITES

Prerequisites: CHM 1045 and PHY 2048 (with calc) or PHY 2053 (without calc.).

TEXTBOOK
You may purchase your textbook online at the [FIU Bookstore](https://www.fiu.edu/bookstore).

**EXPECTATIONS OF THIS COURSE**

This is a traditional lecture based course, which means attendance is mandatory. It has been my experience that performance in these types of classes is directly linked to attendance.

**Attendance:** Required.
Students who participate in University-sanctioned events (athletic events, debates, performances, etc.) must inform me in advance of any event that will conflict with class time, and they must make up any work they missed.

**Make-up homework and examinations:**
You are required to be present for exams on the days exams are scheduled. In extraordinary circumstances, I will reschedule an exam for an individual, but only if I am notified in advance of the exam. I will also accommodate legitimate, verifiable cases of illness and emergencies (and religious holidays).

Submission of assignments after assigned dates will result in reduction of 5 percentage points (or the letter grade equivalent) for each day late.

**COURSE DETAIL**

**COURSE COMMUNICATION**

I will communicate with the class via the email address assigned to you by FIU. All correspondence sent should include “OCP3002” in the subject line. Expect the class webpage to contain the most up to date information regarding the class. Check the website often.
ELECTRONIC DEVICES IN THE LECTURE HALL

Please turn off all cellular telephones and pagers during class time – this includes text messaging. If your work situation requires that you be on call, please notify the instructor prior to class. Text messaging is not permitted in this class. You are only permitted to use a laptop during class to take notes, or to access resources related to the course such as the power points, web links, Google Earth, or the e-text. Laptops may not be used during class time to answer email, browse the web, listen to music, or any other activity not related to class. If you are using your laptop for one of these unauthorized activities, I may simply note who you are and contact you after class rather than interrupting the class to notify you. If you are disrupting other students you will be asked to leave the lecture hall.

ASSIGNMENTS AND QUIZZES

Quizzes will be given during over the course of the semester to determine how the class (and the instructor) is performing. Assignments will be in the form of group projects. Every student in the group is expected to contribute.

COURSE CALENDAR

WEAKLY SCHEDULE

<table>
<thead>
<tr>
<th>Week Starting</th>
<th>Tasks</th>
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| Aug. 19       | Introduction to Planet Earth:  
|               | Tasks: Read Chapter 1 |
| Aug. 26       | Plate Tectonics and the Ocean floor:  
|               | Tasks: Read Chapter 2 |
| Sep. 2        | Marine Provinces:  
|               | Tasks: Read Chapter 3 |
| Sep. 9        | Marine Provinces:  
|               | Tasks: Read Chapter 4 |
| Sep. 16       | Marine Sediments:  
|               | Tasks: Read Chapter 4 |
| Sep. 23       | Water and Seawater:  
|               | Tasks: Read Chapter 5 |
| Sep. 30       | Air Sea Interaction:  
|               | Exam 1: Chapter 1 -5 October 1  
|               | Tasks: Read Chapter 6 |
| Oct. 7        | Ocean Circulation:  
|               | Tasks: Read Chapter 7 |
Oct. 14 | **Ocean Circulation:**
Tasks: Read Chapter 7

Oct. 21 | **Waves and Water Dynamics:**
Tasks: Read Chapter 8

Oct. 28 | **Waves and Water Dynamics**
Tasks: Read Chapter 8

Nov. 4 | **Tides:**
Tasks: Read Chapter 9
Exam 2: Chapter 6-8 November 5

Nov. 11 | **Beaches, Shoreline Processes, and the Coastal Ocean:**
Tasks: Read Chapter 10

Nov. 18 | **The Oceans and Climate Change:**
Tasks: Read Chapter 16

Nov. 27 | **The Oceans and Climate Change:**
Tasks: Read Chapter 16

Dec. 9 | Green Library 166
Final Exam: Dec97, 2019

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### GRADING

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<td>87 - 89</td>
<td>C+</td>
<td>77 - 79</td>
<td>F</td>
<td>59 or less</td>
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### IMPORTANT INFORMATION
POLICIES

Please review the FIU's Policies webpage. The policies webpage contains essential information regarding guidelines relevant to all courses at FIU.

ACCESSIBILITY AND ACCOMMODATION

The Disability Resource Center collaborates with students, faculty, staff, and community members to create diverse learning environments that are usable, equitable, inclusive and sustainable. The DRC provides FIU students with disabilities the necessary support to successfully complete their education and participate in activities available to all students. If you have a diagnosed disability and plan to utilize academic accommodations, please contact the Center at 305-348-3532 or visit them at the Graham Center GC 190.

Please visit our ADA Compliance webpage for information about accessibility involving the tools used in this course.

Please visit Blackboard's Commitment Accessibility webpage for more information.

For additional assistance please contact FIU's Disability Resource Center.

IMPORTANT LINKS

University drop dates / calendar
University's Code of Academic Integrity
University policies on sexual harassment and religious holidays

UNIVERSITY POLICY ON ACADEMIC MISCONDUCT

Florida International University is a community dedicated to generating and imparting knowledge through excellent teaching and research, the rigorous and respectful exchange of ideas, and community service. All students should respect the right of others to have an equitable opportunity to learn and to honestly demonstrate the quality of their learning. Therefore, all students are expected to adhere to a standard of academic conduct, which demonstrates respect for themselves, their fellow students, and the educational mission of the University. All students are deemed by the University to understand that if they are found responsible for academic misconduct, they will be subject to the Academic Misconduct procedures and sanctions, as outlined in the Student Handbook.

CHANGES TO SYLLABUS

I retain the right to modify the course syllabus for any reason throughout the semester provided that: fair and adequate notice is given to enrolled students either by e-mail, in writing, or through online publishing; modifications to the syllabus are not arbitrary or capricious; and students are not unfairly disadvantaged by mid-semester changes to grading standards, attendance standards, or performance measures.