

Geol 5005 Sec 116-L
Marine Geology Laboratory
2^{do} Sem. 2019-2020
Tue. & Thurs. 5:30 PM – 7:20 PM F-303
Professor: Wilson R. Ramírez Martínez
Office: F- 410
E-mail: wilson.ramirez1@upr.edu
Phone: 265-3845 (Dept. Office), 832-4040 X 3575 (Office Extension)
Office Hours: T/Th. 1:30 - 4:30 PM, or by appointment

Course Objectives: Examine the structure, stratigraphy and evolution of the ocean basins and adjacent continental margins. Students should leave this course with a thorough understanding of the geology of ocean basins and of the many roles it plays in shaping the surface of our planet. We will discuss the challenges and rewards of oceanographic research. We will explore the origin and history of the ocean basins, the tectonic forces that shape them, and the rocks and minerals that make up the ocean floor. We will study the ocean's control of global and regional climate and how these changes are preserved through geological processes.

Text: The Sea Floor: An Introduction to Marine Geology

Edition: 4th ed. 2017 Edition

Authors: Eugen Seibold and Wolfgang Berger

ISBN-10: 3319514113

ISBN-13: 978-3319514116

Publishing Company: Springer Textbooks in Earth Sciences, Geography and Environment

Hardcover: 268 pages

Language: English

Other Resources:

1. <http://geology.uprm.edu/MorelockSite/morelockonline/index.html>
2. Readings from Peer Reviewed Journals will be assigned
3. Supplementary Books (for example ID Textbooks) will be available in the laboratory

Exams: Laboratories will be diverse and will include teaching videos, conferences, student presentations, laboratory exercises, and Field Trips. Some of the material will be associated with the class (for example marine sediments) but some topics will be exclusive for the laboratory (for reefs and beaches). Some field trips will include sample collection for later laboratory work and analyses that will be discussed in student oral presentations. The presentations will be given during the laboratory hours. There will be one final laboratory examination on Tuesday, May 12, 2020.