

1-2014

GEO 105N.01: Oceanography

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GEOSCIENCES 105N, OCEANOGRAPHY
SPRING 2014 MW 5:10 to 6:30

Jim Sears
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Office hours: Monday and Wednesday 10 to 11, or by appointment

Expectations: At the end, students are expected to have a general understanding of

- the origin of the earth and ocean basins,
- the geology of the ocean floor and the processes that control its topography,
- materials on the seafloor whether living or inanimate,
- the role of the oceans in climate control,
- processes and patterns of oceanic and atmospheric circulation,
- seawater chemistry,
- marine productivity, and
- some biology of marine organisms.

Assessment and Grading Policies:

Quizzes: There will be 5 short quizzes without announcement. **NO MAKE-UP QUIZZES.**

Examination: Examinations will be administered in class at the times scheduled below.

Material will come from reading materials and class notes. Exams will be multiple-choice. There will be 3 exams (2 midterms and a semi-cumulative final). There will be **NO MAKE-UP EXAMINATIONS.**

Course grading scheme:

Quizzes (5)	25%
Midterm Exam (2)	40%
<u>Final Exam (1)</u>	<u>35%</u>
Total	100%

Final grade breakdown: 93-100% = A; 90-92% = A-; 87-89% = B+; 83-86% = B; 80-82% = B-; 77-79% = C+; 73-76% = C; 70-72% = C-; 60-69% = D; Below 60% = F.

Required Materials:

- **TEXTBOOK:** Sverdrup, Duxbury and Duxbury. 2006, Fundamentals of Oceanography, costume edition, McGraw-Hill, New York. ISBN: 978-1-1214-2244-5.
- Used books available at the bookstore for \$ 27.95.

Other notes

1. **Moodle:** You will be using Moodle extensively. Power point slides will be posted. Log-in and get acquainted with the site. Moodle works best with the latest version of Firefox (So, download it if you do not have Firefox, or update if you do). <http://umonline.umt.edu/>
2. **Academic Integrity:** All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the University—these can be quite severe, so all students need to be familiar with the Student Conduct Code. The Code is available for review online at: http://life.umt.edu/vpsa/student_conduct.php

Approximate Schedule:

Date	Topic	Reading
1/27, 1/29	Introduction to Oceanography, Earth	Ch. 1, 2
2/3, 2/5	Plate Tectonics	Ch. 3
2/10, 2/12	The Sea Floor, Sediments	Ch. 4
2/17, 2/19	2/17 no class. 2/19 Catch up and review day	Ch. 1-4
2/24, 2/26	2/24 EXAM 1 , 2/26 Water	Exam: Chapters 1 – 4 Ch. 5
3/3, 3/5	Water Continued & Atmosphere and Oceans	Ch. 5, 6
3/10, 3/12	Ocean Circulation	Ch. 7
3/17, 3/19	Waves and Tides	Ch. 8
3/24, 3/26	3/24 EXAM 2 , 3/26 Coasts	Exam: Chapters 5 - 8 Ch. 9
3/31, 4/2	Spring Break-No Class	
4/7, 4/9	Coasts, Estuaries, Environmental Issues	Ch. 9
4/14, 4/16	Oceanic Environment and Productivity	Ch. 10
4/21, 4/23	Life in the Water	Ch. 11
4/28, 4/30	Life on the Sea Floor	Ch 12
5/5, 5/7	Marine Resources	
5/12	FINAL EXAM, 5:30 – 7:30 p.m.	Exam: 75% on Chapters 9-12 & 25% on 1-8