

1-2013

## GEO 105N.01: Oceanography

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**GEOSCIENCES 105, OCEANOGRAPHY**  
**SPRING 2013 MW 5:10 to 6:30**

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Office hours: M 1:10 – 2:00, Th 1:10 – 2:00, and 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:**

**Assignments:** Assignments will be taken from reading materials, in class topics, and the internet. All assignments taken together will constitute 25% of the overall course grade. There will be 7 assignments, 5 to count for the course grade. If you miss an assignment then that will become the dropped score. Some assignments will be completed in groups during class. *Late assignments will not be accepted more than one class period late for any reason.*

**Examination:** Examinations will be administered in class at the times scheduled below. Material will come from reading materials, class notes, and in-class videos. Exams will be a combination of multiple-choice, short-answer, and diagramming questions. There will be 4 examinations, 3 to count for the course grade. If you miss an exam then that will become the dropped score. There will be **NO MAKE-UP EXAMINATIONS** for any reason.

**Spelling:** Spelling errors will be counted on all assignments; 2 misspelled words will count for 1 point. Up to 10 different misspelled words will be allowed on examinations. After 10 spelling errors on an exam, 2 misspelled words will count for 1 point. If a word is in the text book, it will be considered to be on the spelling list.

Course grading scheme:

Assignments (5)	100 pts.
Examinations (3)	300 pts.
Total	400 pts.

Grades will be based on performance relative to a scale of > 90 % = A, 80 – 89 % = B, 70 – 79 % = C, 60 – 69 % = D, < 59 % = F. These divisions are guidelines and represent a maximum performance required to achieve a particular grade; the grading scale may slide downward but will not slide upward.

**Text:** Sverdrup, Duxbury and Duxbury. 2006, Fundamentals of Oceanography, 5<sup>th</sup> edition, McGraw-Hill, New York.

Sebastian Junger, The Perfect Storm. 1997, any publisher or copy. (PS)

**Blackboard Course Management Tool:** [courseware.umt.edu](http://courseware.umt.edu)

<b>Date</b>	<b>Topic</b>	<b>Reading</b>
1-28, 30	Introduction to Oceanography, Earth	Ch. 1, 2
2-4, 6	Plate Tectonics, The Sea Floor	3, 4
2-11, 13	The Sea Floor, Sediments	4
2-20	<b>Study session is 2/19, 7:10 p.m</b> <b>2-20 EXAM 1</b>	Exam chapters 1 – 4,
2-25, 27	Water, Atmosphere	5, 6
3-4, 6	Atmosphere and Oceans	6 (PS through Gloucester, Mass., 1991)
3-11, 13	Ocean Circulation	7 (PS through The Flemish Cap)
3-18, 20	Waves and Tides	8 (PS through Graveyard of the Atlantic)
3-25, 27	<b>Study session is 3/26, 6:40 p.m ; 3-27 SECOND EXAM;</b> Coasts	Chapters 5 though 8
4-1 – 4-5	<b>Spring Break</b>	
4-8, 10	Coasts, Estuaries, Environmental Issues	9 (PS through The World of the Living)
4-15, 17	Oceanic Environment and Productivity	10
4-22, 24	Life in the Water	11
4-29, 5-1	Life on the Sea Floor, <b>Study session is 4/30, 7:10 p.m.</b> <b>5-1, THIRD EXAM</b>	12, Exam on Chapters 9 – 12 (PS through end of book)
5-6, 8	Marine Resources	Extra readings
5-13	<b>FINAL EXAM, 5:30 – 7:30 p.m.</b>	

This course adheres to the Student Conduct Code ([http://life.umt.edu/vpsa/student\\_conduct.php](http://life.umt.edu/vpsa/student_conduct.php)). In particular, note this definition (SCC pg. 6) **Plagiarism:** Representing another person's words, ideas, data, or materials as one's own. Assignments are to be individual work unless otherwise indicated in the assignment. In general, group assignments will only be completed in class.