

1-2003

GEOL 105.01: Oceanography

Nancy W. Hinman

University of Montana - Missoula, nancy.hinman@umontana.edu

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Recommended Citation

Hinman, Nancy W., "GEOL 105.01: Oceanography" (2003). *Syllabi*. Paper 3625.
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GEOLOGY 105, OCEANOGRAPHY
SPRING 2003, MW 5:10 – 6:00

Dr. Nancy W. Hinman
Department: Geology
Campus: University of Montana

Email: nhinman@selway.umt.edu
Phone: (406) 243-5277
Fax: (406) 243-4028

Expectations: At the end of the semester, 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 6 assignments, 5 to count for the course grade. *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 the text, class notes, and in-class videos. There will be 4 examinations, 3 to count for the course grade. 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. These errors will be marked and numbered. After 10 spelling errors, 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.

Text: Tom Garrison, Essentials of Oceanography, 3rd edition, 2004, Brooks/Cole Publishing. Some copies of supplemental study guides are available for this text.

Website: http://www.cs.umt.edu/GEOLOGY/classes/Geol%20105/g105_idx.htm

Date	Topic	Reading
1-26	Introduction to Oceanography	Ch. 1, 2
2-2	Plate Tectonics	3
2-9	Ocean Basins, Sediments 2-13 Last day to add/drop by Cyberbear	4, 5
2-16	2-16 No Class – Holiday - Study session is 2/19, 6:10 p.m.	
2-23	FIRST EXAM	
3-1	Water, Atmospheric Circulation	6, 7
3-8	Ocean Circulation 3-9 Last day to drop/add, NO REFUND	8
3-15	Waves, Tides - Study session is 3/18, 6:10 p.m.	9, 10
3-22	SECOND EXAM	
3- 29	SPRING BREAK	
4-5	Coasts, Life in the Ocean	11, 12
4-12	Pelagic Communities	13
4-19	Benthic Communities	14
4-26	Marine Resources - Study session is 4/22, 6:10 p.m.	15
5-3	THIRD EXAM	
5-10	FINAL EXAM, 5:30 – 7:30 p.m.	