Oceanography Lecture GEOS 3034

SYLLABUS

Instructor- Dr. P. Buzas Stephens; Bolin 102A; (940) 397-4448; pamela.stephens@mwsu.edu

Text- An Introduction to the World’s Oceans, 10th ed., Sverdrup and Armbrust

Topics:
Aug. 22-26- Introduction- Chap. 1
Aug. 29-Sept. 2- Origins, Time, Location, and Navigation- Chap. 2
Sept. 5- Labor Day; no classes
Sept. 7-12- Plate Tectonics- Chap. 3
Sept. 9-14- The Sea Floor and Sediments- Chap. 4
Sept. 16-26- Physical Properties of Water and the Hydrologic Cycle- Chaps. 2, 5
Sept. 28-Oct.7- Seawater Chemistry- Chap. 6

October 10- MIDTERM
Oct. 14-21- The Atmosphere- Chap. 7
Oct. 24-28- Oceanic Structure, Circulation, and Currents- Chaps. 8, 9
Oct. 31-Nov. 4- Waves- Chap. 10
Nov. 7-14- Tides- Chap. 11
Nov. 16-21- Coastal Environments and Life in the Oceans- selections from Chaps. 12-18

November 23-25- Thanksgiving; no classes
Nov. 28-Dec. 2- Group presentations

Monday, December 5, 8am- FINAL EXAM

Classroom Policies- Students are expected to be present and punctual. Students with 3 or more absences may be dropped from the course. Please refer to the MSU Student Handbook for policies related to student rights, responsibilities, and activities. Students with disability must be registered with the Disability Support Services before classroom accommodations can be provided.

Lecture grade- 75% of course grade; lecture grade consists of a midterm, final, paper summary, and group presentation (25% each).

Lecture objective- Through investigation of major physical, geological, biological, and chemical aspects of the oceans, students will gain an understanding of how ocean systems operate.