MAR 542 - Foundations of Atmospheric Sciences II

This course is an introduction to atmosphere and ocean dynamics. It is required of first-year atmospheric science graduate students, and it is recommended for first-year physical oceanography students. Its purpose is to prepare students in atmospheric sciences and physical oceanography to move onto more advanced courses in these areas, as well as to acquaint each other with some fundamental aspects of dynamics applied to geophysical fluids outside your area of specialization.

Course Learning Objectives:

- Explain the theoretical basis for atmospheric and ocean structure and circulation.
- Understand basic concepts of atmospheric dynamics including temporal and spatial scales.
- Demonstrate understanding the methods to explain the atmospheric motion.

Instructor contact information:

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Office Hours: TBA or by appointment.

Textbook: Atmospheric Science–an introductory survey (Wallace and Hobbs),
Mid-Latitude Atmospheric Dynamics, a First Course (Jonathan Martin)
An Introduction to Dynamic Meteorology (James R. Holton)

Blackboard site: The class schedule, homework assignments and other important information can be found on Blackboard (http://blackboard.stonybrook.edu).

Class Protocol: Cell Phone and electronic device have to be turned off during classes. No digital recording of the classes is allowed without permission of instructor.

Academic Integrity

Each student must pursue his or her academic goals honestly and be personally accountable for all submitted work. Representing another person's work as your own is always wrong. Faculty are required to report any suspected instance of academic dishonesty to the Academic Judiciary. For more comprehensive information on academic integrity, including categories of academic dishonesty, please refer to the academic judiciary website at http://www.stonybrook.edu/uaa/academicjudiciary/

Critical Incident Management

Stony Brook University expects students to respect the rights, privileges, and property of other people. Faculty are required to report to the Office of Judicial Affairs any disruptive behavior that interrupts their ability to teach, compromises the safety of the learning environment, and/or inhibits students' ability to learn.

Americans with Disabilities Act

If you have a physical, psychological, medical, or learning disability that may impact your course work, please contact Disability Support Services at (631) 632-6748 or http://studentaffairs.stonybrook.edu/dss/. They will determine with you what accommodations are necessary and appropriate. All information and documentation is confidential. Students who require assistance during emergency evacuation are encouraged to discuss their needs with their professors and Disability Support Services. For procedures and information go to the following website: http://www.sunysb.edu/ehs/fire/disabilities.shtml