

SYLLABUS

Fall 2017

ATM 210

(class #1191)

ATMOSPHERIC STRUCTURE, THERMODYNAMICS and CIRCULATION

Time: Mon, Wed, Fri lectures 11:30 am – 12:25 pm

Place: Earth Science Building 232, Univ. at Albany Uptown Campus

Text: Ahrens & Henson, *Meteorology Today*, 11th ed. You may use older editions. (Another useful textbook is Wallace & Hobbs, *Atmospheric Science: An Introductory Survey*, 2nd ed.)

Instructor: Bob Keesee; e-mail: rkeesee@albany.edu; phone: 442-4566, Rm ES214

Office hours: Tuesdays, 9:30 am-11:00 am, Wednesdays 1:30 pm -3:00 pm, or
try your luck and drop by the office or make an appointment

Teaching Asst.: Hesham Hassan; e-mail hhassan@albany.edu

Office hours: ES318, Mondays 10 - 11 am, Thursdays 3 - 4 pm

Prerequisites: PHY105, 140, or 141 and MAT 111, 112, or 118

This course is a technical survey of the atmosphere with application of elementary physical and mathematical concepts. The course is designed for students majoring in atmospheric science or environmental science. The objective of the course is to provide a basic understanding of the physical processes that govern weather and climate. A list of expected topics to be covered is attached.

A few class meetings will have guest speakers that will be announced approximately one week in advance. Attendance for these classes will be mandatory and a 1% deduction will be made on your course grade if you are absent without a valid reason. One voluntary evening field trip is anticipated for observing a radiosonde launch from the roof of CESTM.

All students will partake in a writing-and-review process (1) to research a topic, develop an argument, and organize supporting details into a coherent text and (2) to revise and improve such text.

Grades will be based on a “curve” with the following elements:

	<u>210</u>
homework exercises (~10)	22.5%
exams (three)	67.5%
writing and review process	10%

Homework exercises submitted after due dates will receive half-credit if submitted before the corrected homework is returned to the class. Homework exercises cannot be accepted afterwards.

The three exams are open book and open note. The third exam is scheduled for Monday Dec 18th @ 3:30 pm in ES232.