

PGEOG 13000 1L04 Lab Syllabus

Instructor: Katie Towey

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Class Location: Hunter North 1028; Wednesdays, 10:10 AM - 12:00 PM

Office Hours: Hunter North 1032; Wednesdays, 12:00 - 1:00 PM

Except for changes that substantially affect implementation of the evaluation (grading) statement, this syllabus is a guide for the course and is subject to change with advance notice. Updates will be posted regularly on BlackBoard.

Contact Policy

The best way to contact me is through your Hunter College email. You must include the course name or number in your subject line and you must sign your name as it appears in CUNYfirst in your email. I try to answer all emails within 24 hours. Allow for a 48 hour delay on the weekends.

Learning Objectives

This course will describe the basic principles and elements that shape and determine the Earth's weather and climate. The student who successfully completes this course can:

- recognize the methodologies employed by natural scientists.
- discuss the nature of scientific inquiry and recognize examples of hypotheses formulation and testing as well as the development of some significant scientific theories.
- define the basic chemistry and physics of atmospheric processes.
- explain the development of weather analysis and forecasts.
- identify past changes in climate and how they may provide insight into the present and future states of the planet.
- explain feedback mechanisms and distinguish between time scales of operation.
- discuss world climate distribution and how it relates to the general circulation of the atmosphere.

Required Course Lab Manual

Exercises for Weather and Climate, by Greg Carbone, 9th Edition (ISBN-13: 97801340041360)

**eBook version from VitalSource/Coursesmart is not recommended*

Grading

The laboratory component is 25% of your course grade, and will be based on the following:

Pre-Lab Quizzes: 5%

Lab Exercises: 20%

Pre-Lab Quizzes

There will be a pre-lab quiz during the first ten minutes of every lab on the material covered in that day's lab exercise. You must come to lab prepared by reading the entire lab prior to your

scheduled lab period. If you don't understand the lab material you should read the textbook chapter concerning that lab and refer to your lecture notes about the subject. If you arrive to lab any time during the first ten minutes, you may work on the pre-lab quiz but all quizzes must be turned in at the ten minute mark. No one may take a pre-lab quiz at any time other than the first ten minutes of the lab period.

Lab Exercises

Lab exercises are due the following week at the beginning of class. Photocopied and/or emailed labs are not accepted. You may make a blank copy of a lab and then fill in the answers showing your work and calculations. Lab answers must be neat and you must show all math calculations and use proper units of measurement to receive credit for an answer. If your lab instructor cannot read your answers, your answers will be marked wrong. If an answer cannot neatly fit in the space provided, use a separate sheet of paper for your answers. Make sure your answers are properly numbered. You may work on the lab with others BUT your work must be your own. This is plagiarism and will not be tolerated. All work must be in your own words.

Policies for late work

Late lab exercises will have their grade reduced 20% for each day received late unless you have a valid excuse that can be documented. This policy will be strictly enforced. If you miss a class session, you are still expected to do that week's work and hand the lab in on time, do not wait until the next meeting. Late labs can be submitted to my mailbox in Hunter North 1006, but must be signed and dated by a member of the office staff. After a week, late labs will not be accepted unless prior arrangements were made with the instructor.

Attendance policy

With the exception of rare emergencies, students are expected to arrive promptly and not leave early. Attendance will be taken at every laboratory meeting as well as notations as to lateness or leaving lab early. Plan to be in the lab for the entire scheduled time every week.

Problems

If a problem develops during the semester relating to this course do not let the problem become serious before discussing it with your instructor. It is better to talk early-on so we can attempt to find a solution. All conversations are in strict confidence.

Academic Dishonesty

Hunter College regards acts of academic dishonesty (e.g., plagiarism, cheating on examinations, obtaining unfair advantage, and falsification of records and official documents) as serious offenses against the values of intellectual honesty. The College is committed to enforcing CUNY Policy on Academic Integrity and will pursue cases of academic dishonesty according to the Hunter College Academic Integrity Procedures.

Office of AccessABILITY

In compliance with the American Disability Act of 1990 (ADA) and with Section 504 of the Rehabilitation Act of 1973, Hunter College is committed to ensuring educational parity and accommodations for all students with documented disabilities and/or medical conditions. It is recommended that all students with documented disabilities (emotional, medical, physical and/or learning) consult the Office of AccessABILITY located in Room HE1124 to secure necessary academic accommodations. For further information and assistance please call (212-772-4857)/ TTY (212- 650- 3230). **You must be registered with the Office of AccessABILITY to qualify for the accommodations.**

Hunter College Policy on Sexual Misconduct

In compliance with the CUNY Policy on Sexual Misconduct, Hunter College affirms the prohibition of any sexual misconduct, which includes sexual violence, sexual harassment, and gender-based harassment retaliation against students, employees, or visitors, as well as certain intimate relationship. Students who have experienced any form of sexual violence on or off campus (including CUNY-sponsored trips and events) are entitled to the rights outlined in the Bill of Rights for Hunter College.

- a. Sexual Violence: Students are strongly encouraged to immediately report the incident by calling 911, contacting NYPD Special Victims Division Hotline (646-610-7272) or their local police precinct, or contacting the College's Public Safety Office (212-772-4444)

- b. All Other Forms of Sexual Misconduct: Students are also encouraged to contact the College's Title IX Campus Coordinator, Dean John Rose (jtrose@hunter.cuny.edu or **212-650-3262**) or Colleen Barry (colleen.barry@hunter.cuny.edu or **212-772-4534**) and seek complementary services through the Counseling and Wellness Services Office, Room HE 1123.

The CUNY Policy on Sexual Misconduct Link is:

<http://www.cuny.edu/about/administration/offices/la/Policy-on-Sexual-Misconduct-12-1-14-with-links.pdf>

Tentative Lab Schedule		
Date	In Class Assignment and Pre-Lab Quiz	Lab Questions
29-Jan	Pre-Lab A-C	A: 1-13 B: 1-5 C: 1-2 (Pt.1), 1-4 (Pt.2)
5-Feb	Pre-Lab D-E	D: 1-4 (Pt.1), 1a-b (Pt.2) E: All Qs
12-Feb	No Lab	
19-Feb	Lab #1: Vertical Structure of the Atmosphere	#1-28
26-Feb	Lab #2: Earth-Sun Geometry	#1-6, 9-19
4-Mar	Lab #3: The Surface Energy Budget Lab #4: The Global Energy Budget	#1-15 (#3) #1-4, 11-15 (#4)
11-Mar	Lab #5: Atmospheric Moisture	#10-24, 27-29
18-Mar	Lab #6: Saturation and Atmospheric Stability	#1-23
25-Mar	Lab #9: Weather Map Analysis Lab #10: Mid-Latitude Cyclones	#1-9 (#9) #1-17 (#10)
1-Apr	Lab #12: Thunderstorms and Tornadoes	#1-15
7-Apr*	Lab #13: Hurricanes	#1-17
15-Apr	No Lab	
22-Apr	Lab #16: Climate Variability and Change	#1-23
29-Apr	Lab #16: Climate Variability and Change	#1-23
6-May	Lab #14: Climate Controls	#1-22
13-May	TBA	