

**PGEOG 130**  
**Weather and Climate Lab**  
**Fall 2021**

**Lab Section:** 2L01

**Room:** 1028 N

**Lab Hours:** Mondays 5:35 PM – 7:35PM (In Person)

**Instructor:** Natalie Monterrosa

**Email:** [nsammy2709@gmail.com](mailto:nsammy2709@gmail.com)

**Office Hours:** Please send an email with the course # and Lab section in the subject line (also include your full name in the body of the email) and we can schedule time to meet. I will try to answer all emails within 24 hours, and within 48 hours on the weekends.

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**Required Materials:**

Greg Carbone, *Exercises for Weather and Climate, 9th ed.* Pearson, 2016 ISBN-10: 0134041364, ISBN-13: 9780134041360

You should have a hardcopy of the manual and bring it to every class. The e-text is not recommended. Please also bring a calculator!

**Course Description:**

This is the lab section to an introductory course to weather and climate, focusing on understanding the principles of meteorology and climatology and different weather phenomena, weather analysis and forecasting and characteristics of world climate and climatic change. Please refer to Lecture syllabus for more information. (<http://www.geo.hunter.cuny.edu/~fbuon/>)

**Learning Objectives:**

- 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.
- Discuss world climate distribution and how it relates to the general circulation of the atmosphere.

**Attendance/Grading:**

Attendance is mandatory. Please let me know if you have any questions or concerns. Pre-lab quizzes will be administered in the **first ten minutes of each class**. If you arrive late, you will have until the end of the first ten minutes to complete the quiz.

Lab Exercises: 20%

Pre-lab quizzes: 5%

Total: 25% of lecture/lab grade (see Lecture syllabus)

## Weekly Lab Schedule (\*subject to change)

Date	Lab # / Topic
8/30	Lab # 1A – Dimensions and Units Lab #1 – Vertical Structure of the Atmosphere
9/6	<b>College Closed – No classes scheduled</b>
9/13	Lab # 2 – Earth-Sun Geometry
9/20	Lab # 3 – Surface energy budget Lab # 4 – Global energy budget
9/27	Lab # 5 – Atmospheric Moisture
10/4	Lab # 6 – Saturation and Atmospheric Stability
10/11	<b>College Closed – No classes scheduled</b>
10/18	Lab # 7 – Cloud droplets and Raindrops
10/25	Lab # 8 – Atmospheric Motion
11/1	Lab # 8 – Atmospheric Motion
11/8	Lab # 9 – Weather Map Analysis
11/15	Lab # 12 – Thunderstorms and Tornadoes
11/22	Lab # 13 - Hurricanes
11/29	Lab # 15 – Climate Classification
12/6	Lab # 16 – Climate Variability and Change
12/13	Lab # 17 – Simulating Climate Change
12/20	No Lab due – Finals Week

### Laboratory Policies

Lab exercises are due, in lab at the beginning of your next class meeting. Late lab exercises will have their grade reduced 10% 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 the weeks work and hand the lab in on time. Please let me know if you have any questions or concerns.

### Hunter College Statement on Academic Integrity

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. Plagiarism, dishonesty, or cheating in any portion of the work required for this course will be punished to the full extent allowed according to Hunter College regulations.

### **ADA Policy**

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 E1214B, to secure necessary academic accommodations. For further information and assistance, please call: (212) 772- 4857 or (212) 650-3230.

### **Hunter College Policy on Sexual Misconduct**

In compliance with the CUNY Policy on Sexual Misconduct, Hunter College reaffirms 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 relationships. 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 complimentary services through the Counseling and Wellness Services Office, Hunter East 1123.

CUNY Policy on Sexual Misconduct Link:

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