

PGEOG 13000 - Weather and Climate

Fall 2019

Tuesday and Friday 2:10 p.m. to 3:25 p.m. - Hunter West W615

Contact Information

Instructor: Dr. Wenge Ni-Meister
Email: Wenge.Ni-Meister@hunter.cuny.edu - The best way to contact me is through email. (1) Please use PGEOG 130 Weather and Climate in the subject line and sign your full name to any message. (2) Please use your @myhunter email for all communications. I will try to respond your email within 24 hours. Please allow for a delay over the weekend or holidays.
Office: HN1029
Office Phone & Fax: 212-772-5321
Office hours: Tuesday: 4:30pm-5:30pm or by appointment
Dept. Information: HN1006

Prerequisites: No prerequisite

Required textbook: The *Atmosphere: An Introduction to Meteorology*, 14th edition, Lutgens, Tarbuck and Herman, 2018, Prentice Hall. ISBN-13: 978-0-13-475858-9, ISBN-10: 978-0-13-475858-7 (\$134.18). *There are copies of the text book and lab manual on reserve in the library.* **The 11th edition, or later, of the text is acceptable.**

Required Lab Manual: Exercises for Weather & Climate Plus MasteringMeteorology with eText -- Access Card Package, 9/E, Greg Carbone, University of South Carolina, ISBN-10: 0134035666, ISBN-13: 9780134035666. Prentice Hall, Copyright: 2016, Spiral Bound with Access Card; 256 pages (\$96.07).

We do NOT recommend purchasing the e-Book lab manual from CourseSmart or BryteWave at this time. There have been major formatting issues when printing for the past three semesters and until we have evidence these formatting issues have been resolved we cannot accept printed labs from these companies.

You must be registered for a weekly lab. Lab schedules can be found at:
<http://www.geography.hunter.cuny.edu/tbw/wc.labs.fall.2019/lab.schedule.html>

Course Description: 5 hrs (3 lec, 2 lab), 4 cr. This is 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. This is a lab science course and can be used to meet the GER2L General Education Requirement and can meet the Life and Physical Science category of the Hunter Common Core.

Course Objectives and Learning Outcomes: Upon successful completion of this course students will

- Describe and explain the atmospheric systems that affect our weather
- Name weather phenomena that affect our daily lives.
- Analyze weather maps and develop basic skills for weather forecasting.
- Recognize world climate and how our climate is changing and the causes of climate change.

Grading:

Lab exercises (11)	30%
Pre-lab/Place Name quizzes	5%

Midterm (2)	40% (20% each)
Final exam	25%

- **Midterm and Final Exams:** Two mid-term exams will be given in class and will be based on assigned textbook readings, journal articles, materials covered in class, and case studies. The midterm will take an entire class period. The final will be given during the final exam time (2 hours). No electronic devices or reference materials will be permitted on the desk during exams unless specified. Make-up exams are **ONLY** available in extreme cases, and with medical (or other) forms that confirm the absence.
- **Lab exercises and pre-lab quizzes** will be discussed by your lab instructor. Attendance in lab is mandatory. Lab sessions meet in HN1028.

Rules and Policies for Lecture and Lab

All students are expected to abide by the following policies when in lecture in order to provide a more respectful and productive learning environment.

- All cell phones must be silenced. Laptops are not permitted.
- Texting and other non-class related smart phone activities are not allowed. Students should quietly excuse themselves from the lecture if substantial external electronic communication is required.

Study Tips to Do Well in This or Any Class

This is an introductory-level course that many students take to satisfy a science requirement. There's a lot of material to cover in the course and the textbook is packed with information. The materials in later chapters are built on material learned in earlier chapters. It is very difficult to catch up if you fall behind in the beginning. You should spend time every week studying the course material. Here are some study tips:

- Attend class & take detailed notes.
- Read the assigned material in the text (or other) before coming to class.
- Test yourself by answering the questions in the book and in class.
- Carefully study the diagrams and charts in the book and in the lectures.

Grading Policy

Grading will follow Hunter College policy as outlined in the following page:

<http://catalog.hunter.cuny.edu/content.php?catoid=39&navoid=11679>

I do not give incompletes (IN) except under the most extraordinary, and documented, circumstances. You must contact me within 48 hours of the final exam and request IN as a grade. At that time you will schedule a date to meet with me at the college and complete a Contract to Resolve Incomplete Grades. Otherwise, I will average the grades I have for you and record you the grade you have earned.

If you miss an exam, you must (1) contact me within 48 hours of the missed exam, (2) present acceptable documentary evidence for your absence, and (3) be available for the make-up exam (Note: there will be one make-up exam day at the end of the semester held outside of class for those eligible). A make-up exam covers the same material as the regular exam but will not be the same exam given as scheduled. (i.e. **DON'T MISS AN EXAM**).

Credit/No Credit Policy - The CR/NC option will be honored only if the conditions stated on the CR/NC form are satisfied: all course work has been completed and you earned grades such that you accumulate at least 50 points total in the course. Credit/No Credit forms will be accepted up to 15 minutes before the schedule start of the final exam. Students on probation are ineligible. Details of Hunter's Credit/No credit policy and form can be found at <http://www.hunter.cuny.edu/advising/how-to/file-credit-no-credit-cr-nc>

Resources (include all that apply)

- All class material will be posted on Bb.

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>

Syllabus Change Policy

- 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.
- Any changes will be updated through Bb.

Tentative Daily Schedule

Week	Date	Topic
Week 1	August 27	Ch 1 Introduction to the Atmosphere
	August 30	Ch 1 Introduction to the Atmosphere
Week 2	September 3	Ch 2 Heating Earth's Surface & Atmosphere

	September 6	Ch 2 Heating Earth's Surface & Atmosphere
Week 3	September 10	Ch 3 Temperature
	September 13	Ch 3 Temperature
Week 4	September 17	Ch 4 Moisture and Atmospheric Stability
	September 20	Ch 4 Moisture and Atmospheric Stability
Week 5	September 24	Ch 5 Condensation and Precipitation
	September 27	Ch 5 Condensation and Precipitation
Week 6	October 1	No Classes Scheduled
	October 4	Mid-Term Exam 1 (Ch 1- 5)
Week 7	October 8	No Classes Scheduled
	October 11	Ch 6 Air Pressure and Wind
Week 8	October 15	Ch 6 Air Pressure and Wind
	October 18	Ch 7 Circulation of the Atmosphere
Week 9	October 22	Ch 7 Circulation of the Atmosphere
	October 25	Ch 7 Circulation of the Atmosphere
Week 10	October 29	Ch 8 Air Masses
	November 1	Ch 9 Midlatitude Cyclones
Week 11	November 5	Ch 9 Midlatitude Cyclones
	November 8	Ch 11 Hurricanes
Week 12	November 12	Ch 11 Hurricanes
	November 15	Midterm Exam 2 (Ch 6-9, 11)
Week 13	November 19	Ch 14 The Changing Climate
	November 22	Ch 14 The Changing Climate
Week 14	November 26	Ch 14 The Changing Climate
	November 29	College is closed
Week 15	December 3	Ch 14 The Changing Climate
	December 6	Ch 13 Air Pollution
Week 16	December 10	Ch 12 Weather Analysis and Forecasting
	December 13	Reading Day
Week 17	December 17	Final Exam (All Chapters) 11:30am-1:30pm