

**PGEOG 13000 1L03: Weather and Climate Lab**  
**Fall 2020**

**Instructor:** Katherine (Katie) Towey

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**Virtual Office Hours:** By appointment via Zoom

**Class Meeting:** Thursdays, 2:10 - 4:00 PM via Zoom

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**Course Description and 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 will be able to:

- 1) Recognize the methodologies employed by natural scientists.
- 2) Discuss the nature of scientific inquiry and recognize examples of hypotheses formulation and testing as well as the development of some significant scientific theories.
- 3) Define the basic chemistry and physics of atmospheric processes.
- 4) Explain the development of weather analysis and forecasts.
- 5) Identify past changes in climate and how they may provide insight into the present and future states of the planet.
- 6) Explain feedback mechanisms and distinguish between time scales of operation.
- 7) Discuss world climate distribution and how it relates to the general circulation of the atmosphere.

**Required Course Lab Manual**

*Exercises for Weather and Climate (9th edition)*, by Greg Carbone. **ISBN-13:** 978-01340041360

**Grading**

The lab component is 35% of your course grade, and will be based on the following:

Pre-Lab Quizzes: 5%

Lab Exercises: 30%

**Pre-Lab Quizzes:** There will be a pre-lab quiz prior to each lab assignment. The quiz will be made available for 24 hours prior to class, but you will only have 10 minutes to complete the quiz.

**Lab Exercises:** Lab assignments will be due the following week by the beginning of class. If you buy a hard copy of the lab manual, you must scan/take pictures of each page of the lab and upload them to the Blackboard submission link. If you buy an ebook, you can print out the labs and write answers as described above, or type answers using some software that allows you to.

**You are expected to turn in your own work for all assignments - cheating and/or plagiarism will not be tolerated.**

### **Late policy**

*Due to the online nature of this course, some of you may experience technical issues in submitting your assignments. If you do, in order to not be penalized, you **MUST** email me as soon as possible. All assignments (exams, homework, discussion posts, and tasks related to the term project) will be penalized if submitted after the due date by a reduction of **10%** of possible points for a given assignment for each 24-hour period after the due date. After a week late, the assignment will not be accepted. **HOWEVER**, if you have a reason for submitting late assignments due to any problem or personal issue, please contact me as soon as possible and the late policy can be waived.*

### **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. I will try to answer all emails within 24 hours during the week and 48 hours on the weekend.*

### **Organization of Blackboard Site**

The section site is organized as follows:

- **Announcements:** announcements from your instructor
- **Instructor Information:** contact information for your instructor
- **Start Here:** the syllabus, course schedule and introduction discussion prompt
- **Pre-Lab Quizzes:** exam documents and submission links
- **Lab Lectures:** lecture files and recordings
- **Lab Submissions:** homework assignments and submission links
- **Discussion Boards:** all discussion prompts
- **My Grades:** students' grades