

Fall 2020 – PGEOG 130.00: Weather and Climate Lab

Lab 1L05 [08585] online synchronous W 2.10 – 4 pm

Instructor: Henry Sirotin

e-mail: For messages use hsirotin@hunter.cuny.edu – Please include PGeog 130L05 in the subject line, and sign all messages with your first and last name.

Office Hour: There will be no formal hour. I will be available 24/7 by email- if you don't have a response in 24 hours, please repeat the email. Sometimes things fall through the cracks.

This course is an adjunct course to PGeog 130 lecture and has no separate credit. If you are not registered for a lecture section, do so NOW. All course credit and final grading for the two parts of the course will be handled through your lecture course instructor.

The course will be taught synchronously, the listed hours, using Zoom and Blackboard. Zoom may be new to some of you. You can download the app at <https://zoom.us/download> if you do not have it. Do not worry if you see a 45 minute time limit on your session- I will be hosting with a Hunter license that overrides that. So long as I am on Zoom, you will be. Before each session, I will send a BB announcement with an invitation to the session and a password, if needed. Simply use these to log in. I believe you are already familiar with Blackboard, so just make sure it is up and running for you.

Learning Outcomes: in

- Recognize methods employed in meteorology
- Apply basic mathematical concepts of meteorology
- Gain practical experience in the reading and construction of weather-related charts, graphs, and maps.

Textbooks:

Required Lab Manual:

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

Hard copies of the book should be available through Shakespeare, or for possibly better prices see www.bookfinder.com. Use the ISBN to search. However you do it, make sure you have the 9th edition.

DO NOT PURCHASE EARLIER OR USED EDITIONS. USED EDITIONS WILL BE MISSING SECTIONS, AND SEVERAL OF THE LABS HAVE BEEN SIGNIFICANTLY CHANGED FOR THIS EDITION.

EVersions of the text are available, but

Do Not Purchase the VitalSource/Coursesmart ebook. It has MAJOR formatting problems

Submission of Assignments:

Each session will begin with a brief summary of the lab, in which I will give general instructions and details (and some tricks) for particular questions. Please try to read the lab beforehand- it will make it easier for you, and if there is something you don't understand, this is the time to bring it up.

Labs will be submitted through Blackboard.

- For each lab, there will be an Envelope within Blackboard Content.
- At first, the envelope may contain any notes I want to post about the lab.
- You will submit the completed lab through Assignment in the appropriate lab Envelope.
- Lab format: Please submit the lab as a Word doc or pdf, following the question list in the lab itself. For those questions that require you to draw on maps or graphs, photo the necessary page and submit it with the assignment.
- DO NOT photo the entire lab and submit it as such. From past experience, it can be impossible to read handwritten entries in photo submitted entries, and if I can't read it, it is wrong.
- For math equations, write them out using the four basic symbols in Word, [+ - x /] Exponents, if relevant, can be shown with a carat [$4^3 = 64$, ie, four to the third power = 64].
- **Make sure your name is on all submissions**

All labs must be submitted by the following course session. No exceptions without medical documentation. After the labs are submitted I will post the correct answers in the relevant envelope. At that point I will block any further submissions, and the lab grade will be 0.

DO NOT SEND LABS TO MY EMAIL ADDRESS. I HAVE 100 LAB STUDENTS THIS TERM AND, EVEN IF THE SECTION IS IDENTIFIED, WILL NOT TRY TO FIGURE OUT WHERE TO PLACE IT. I WILL SIMPLY DELETE IT. ALL LABS GO TO THE ASSIGNMENT SECTION OF THE RELEVANT LAB FOLDER.

You can work together on labs, but there must be separate submissions. I will open a Discussion session in Blackboard for each lab for you to communicate with each other.

Grading:

Grading will be done in 5 point increments. The average of your labs will be sent to your lecture instructor.

The instructor will determine what percentage of the final grade the lab average will contribute.

Additional Material:

Some of you may wonder what sort of chaos is going on in the administration over this pandemic, and what the instructors have to deal with. After the Schedule section, I am attaching the full text of a memo we received from CUNY Central yesterday afternoon (8/24), with additions to the syllabi. About half of this we knew about and included. The rest, mostly I think from the Legal Department, was sent us the day before the term began.

Schedule:

CHECK THE COURSE SYLLABUS FOR INSTRUCTIONS ON HOW TO SUBMIT LABS

Lab No.	Date	Title	Questions to Complete	Due Date
Manual App. A	8/26	Dimensions and Units	1-13	9/2
Manual App. A	8/26	Earth Measures	1, 3-5 [For 5, do mountains, deserts, ocean currents]	9/2
To be provided	9/2	Location	Part I: 1-2; Part II: 1-4	9/9
	9/2	Time	Part I: 1-4; Part II: 1a & 1b	9/9
	9/2	Isolines	Part I and Part II	9/9
1	9/9	Vertical Structure of the Atmosphere	1-18	9/16
2	9/16	Earth-Sun Geometry	1-6 [for 4-6, use analemma], 9-13; 17-19 [For 1, compute the solar angle for all eight positions.] Give radiation values for all solar angles	9/23
3, 4	9/23	The Surface Energy Budget The Global Energy Budget	Surface: 1-15, 20 Global: 1-4, 11-15	9/30
	9/30	Atmospheric Moisture	10-24	10/7
5	10/7	Saturation and Atmospheric Stability	1-16, 18-25	10/21
	10/14	No Class- Monday Schedule		
6	10/21	Weather Map Analysis	1-3, 5, 7-9	10/28
10	10/28	Mid-Latitude Cyclones	1-17	11/4
	11/4	Thunderstorms and Tornadoes	TBD	11/11
13	11/11	Hurricanes	1-17	11/18

Commented [HS1]:

14	11/18	Climate Controls	1-18, 20-21	12/2
	11/25	No Class- Friday Schedule		
15	12/2	Climate Classification	1-2, 4-5, 7-25	12/9
16	12/9	Climate Variability	1-5, 7-11, 13-16, 18, 21-23	TBD

Hunter College Academic Updates Fall 2020

Grading Policy

In the fall 2020 semester we will return to the usual Hunter College grading procedures.

Recording of Remote Classes

As is the case with many colleges and universities that have chosen online and distance learning modalities as a result of the COVID-19 pandemic, faculty utilizing Zoom, Blackboard Collaborate and other digital technology to deliver course curriculum/material must be sensitive to issues of privacy. To that end, faculty offering classes through web conferencing digital technology like Zoom must not record a student in a class session without the student's consent. Similarly, CUNY discourages students from recording the sessions unless such recording is part of a reasonable accommodation under the law or is not prohibited by campus policy. To obtain consent, faculty who wish to record their class sessions must provide the following announcement, in emails, and/or class syllabus, to enrolled students and verbally at the opening of the first class session:

Students who participate in this class with their camera on or use a profile image are agreeing to have their video or image recorded solely for the purpose of creating a record for students enrolled in the class to refer to, including those enrolled students who are unable to attend live. If you are unwilling to consent to have your profile or video image recorded, be sure to keep your camera off and do not use a profile image. Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded. If you are not willing to consent to have your voice recorded during class, you will need to keep your mute button activated and communicate exclusively using the "chat" feature, which allows students to type questions and comments live.

As mentioned in the announcement, recording of classes is for the benefit of students. Faculty shall not use class recordings as a means of determining class attendance and are reminded that CUNY is classified by the U.S. Department of Education as a non-attendance taking institution. Doubts faculty may have regarding the identity of participants should be alleviated if faculty offer their classes through applications and resources that have been licensed by

CUNY Central or their college and require a CUNY/College ID for login, thereby giving reasonable assurance that participants are CUNY students.

For the avoidance of doubt, the prohibition on recording without consent does not apply to audio or video lectures of the faculty member only and that do not include a student participation component.

Language for Expectations for Cameras

Faculty who require the use of cameras and audio in their synchronous sessions must alert students to this requirement at the time of registration and in their syllabus.

Please be aware that the instructor in this course will require that the camera and audio be on during class sessions.

Language for Testing Software

Faculty who anticipate requiring the use of specific testing software must alert students to this requirement at the time of registration and in their syllabus.

Proctoring software, which may include the use of browser lock-downs and cameras, will be used for examinations in this course.

CUNY POLICIES

Online courses are subject to the same CUNY policies as are in-person courses regarding academic integrity, the acceptable use of computer resources, equal opportunity and non-discrimination, sexual misconduct, workplace violence, domestic violence, and reasonable accommodations for persons with disabilities.

CUNY Academic Integrity Policy:

<https://www.cuny.edu/about/administration/offices/legal-affairs/policies-procedures/academic-integrity-policy/>

CUNY Policy on Acceptable Use of Computer Resources: <https://www.cuny.edu/wp-content/uploads/sites/4/page-assets/about/administration/offices/cis/it-policies/ComputerUsePolicy1.pdf>

CUNY Policy on Acceptable Use of University Data in the Cloud:

<https://www.cuny.edu/wp-content/uploads/sites/4/page-assets/about/administration/offices/cis/information-security/security-policies-procedures/Acceptable-Use-of-University-Data-in-the-Cloud-2019-8-19a.pdf> #related
Data Classification Standard: <https://www.cuny.edu/wp-content/uploads/sites/4/page->

[assets/about/administration/offices/cis/information-security/security-policies-procedures/Data-Classification-Standard-CUNY-2019-8-19a.pdf](https://www.cuny.edu/assets/about/administration/offices/cis/information-security/security-policies-procedures/Data-Classification-Standard-CUNY-2019-8-19a.pdf))

CUNY Intellectual Property Policy: <https://www.cuny.edu/wp-content/uploads/sites/4/page-assets/about/administration/offices/legal-affairs/policies-procedures/Intellectual-Property-Policy.pdf>

CUNY information on copyright: <https://www.cuny.edu/about/administration/offices/legal-affairs/intellectual-property/copyright-materials/>

CUNY Equal Opportunity and Non-Discrimination Policy: <https://www.cuny.edu/about/administration/offices/legal-affairs/policies-procedures/equal-opportunity-and-non-discrimination-policy/>

CUNY Policy on Sexual Misconduct: <http://www.cuny.edu/wp-content/uploads/sites/4/page-assets/about/administration/offices/legal-affairs/policies-procedures/Sexual-Misconduct.pdf>

CUNY Campus and Workplace Violence Prevention Policy: <https://www.cuny.edu/wp-content/uploads/sites/4/page-assets/about/administration/offices/legal-affairs/CUNY-Campus-and-Workplace-Violence-Prevention-Policy-2.28.11-and-amended-9.26.2011.pdf>

CUNY Domestic Violence and the Workplace Policy: http://policy.cuny.edu/general-policy/article-v/#policy_5.061

CUNY Procedures for Implementing Reasonable Accommodations and Academic Adjustments: <https://www.cuny.edu/about/administration/offices/legal-affairs/policies-procedures/reasonable-accommodations-and-academic-adjustments/>

