LAB SCHEDULE & INSTRUCTORS CONTACT INFORMATION

1L01  Mo  9:30am - 11:20am  Kelsey Parker (kparker@gradcenter.cuny.edu)
1L02  Tu  11:30am - 1:20pm  Melissa Linares (melinares2@gmail.com)
1L03  Tu  4:00pm - 5:50pm  Natalie Monterrosa (nsammy2709@gmail.com)
1L04  Th  10:30am - 12:20pm  Melissa Linares (melinares2@gmail.com)
1L05  Tu  11:30am - 1:20pm  Jasmine Bayron (jbayron@hunter.cuny.edu)
1L06  Mo  11:30am - 1:20pm  Kelsey Parker (kparker@gradcenter.cuny.edu)
1L07  Th  8:30am - 10:20am  Natalie Monterrosa (nsammy2709@gmail.com)

CONTACT INFORMATION
Professor:  Haydee Salmun
Email address:  hsalmun@hunter.cuny.edu (*)
Telephone:  212-772-5224
Office:  Department of Geography and Environmental Science, Room HN 1035
Office Hours:  Tuesday: 11:20 am – 12:20 pm; in person @ Room HN 1035.
            Friday: 11:20 am – 12:30 pm; virtual (zoom) by appointment

*Note: The best way to contact me is through your Hunter College @myhunter email – (1) You must include the course number or name in your subject line, (2) you must sign your full name as it appears in CUNYfirst. I try to answer all emails within 24 hours during the week and 48 hours on the weekend.

DIVERSITY & INCLUSION
I am committed to fostering an intellectual environment that is enriched and enhanced by diversity in all dimensions, including race, ethnicity and national origins, gender and gender identity, sexuality, class and religion. I am especially committed to increasing the representation of those populations that have been historically excluded from participation in U.S. higher education in STEM fields. It is my hope that we can work together and collectively move closer to accomplish that objective.

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.

INFORMED REGISTRATION STATEMENT
In this 4-credit course we will explore the fundamentals of meteorology and the Earth’s climate. Topics will include the physics of the atmosphere, interactions between the atmosphere and the oceans, climate change and environmental issues relating to weather and climate. This is an applied science course that has a lab component (hands-on work), therefore it can be used to meet the GER2E General Education Requirement as well as to meet the Physical and Life Science category of the Hunter Common Core.
COURSE DESCRIPTION, LEARNING OBJECTIVES, & OUTCOMES
This course will describe the basic principles and elements that shape and determine the Earth’s weather and climate. The course will begin with a discussion of the Earth System, with particular emphasis on the atmosphere. Next, we will discuss the energy that drives all we observe in the atmosphere. The first part of the course will concentrate on describing in some detail the elements that are common to weather and climate: temperature, pressure, moisture, clouds and winds. The second part of the course will, then, concentrate on how all those elements, working together or by combinations, determine the general circulation patterns in the atmosphere and oceans, weather patterns and our climate. Finally, we will discuss air quality and air pollution and the changing of the Earth’s climate, focusing on some current issues, such as the potential impact that humans have on climate and climate change.

The student who successfully completes this course will be able to

- recognize the methodologies employed by natural scientists,
- describe the basic elements that determine weather patterns and climate features of Earth,
- describe the basic chemistry and physics of atmospheric processes.
- discuss the basic concepts related to earth’s climate, and what is known about recent climatic changes
- recognize the complexity of the Earth’s climate system, its weather and the many ways our lives are affected (and affect!) our environment.

RECOMMENDED TEXTBOOK*

* Topics and main content of the course can be found in any of the previous editions of this textbook. We will refer to this textbook as ‘LTHT textbook’ for short.

* There are also readily available and free resources on line. The two resources listed below, cover much of the material covered in the course (not necessarily in the same order). The lecture notes will make specific references to these resources whenever possible.

https://www.e-education.psu.edu/meteo469
https://www.weather.gov/jetstream

REQUIRED COURSE LAB MANUAL

NOTE: eBook Version comes with printing limitations
** You must have your lab manual for the first day of lab **

GRADING METHOD AND SCALE
Grades will be based on class participation, homework assignments, two mid-term exams, and one final exam. A detailed description of the Hunter College Grading System may be found at https://www2.hunter.cuny.edu/students/academic-planning/degree-requirements/construct-an-academic-plan/gpa-calculator/grading-scale. An itemized breakdown of the final grading rubric is provided below:
- Class participation: 10%
- Lab Work: 30%
- Three exams – Mid-term exam I, II & final exam: 20% EACH (for a total of 60% of final grade)

**Class Participation** will be assessed through a series of short IN-CLASS assignments, which will be based on varying topics related to Weather & Climate. In addition, low impact assignments that are designed to encourage students to engage with publicly available data will be given. This assignment(s) offers an opportunity to acquire skills in the use of data and to improve/boost grades.

**EXAM GUIDELINES AND POLICIES**
Exams will be based on assigned textbook readings, journal articles, materials covered in class, and case studies. Dates are **CLEARLY** posted on the Course Calendar and Content. Examinations are 1 hour and 15 minutes for the mid-term and 2 hours for the final exam. 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.

Exams are designed to evaluate a student’s ability to master content, integrate themes and concepts among the different topics covered in the class, understand the usefulness and limitations of scientific data for studying processes, and apply logical arguments to support perspectives.

**CR/NCR POLICY**
The CR/NCR option will be honored only if the conditions stated on the CR/NCR form are satisfied: all course work has been completed and you earned grades such that you accumulated at least 50 points total in the course. Students on probation are ineligible. For more information about Hunter College’s policy on CR/NCR go to: [http://www.hunter.cuny.edu/advising/howto/credit-no-credit-cr-nc](http://www.hunter.cuny.edu/advising/howto/credit-no-credit-cr-nc).

**PARTICIPATION AND CLASSROOM POLICIES**
Class participation constitutes 10% of the final grade. Although attendance is not mandatory as specified by Hunter College, this course will consider attendance as contributing to the final grade. Therefore, attendance is strongly encouraged at all lectures. Students who do not attend lecture cannot participate in class discussions, class short questions the professor asks to gauge participation and progress in the class, and low impact short exercises, all of which must be done ‘in person’. 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 and should not be used for activities NOT strictly related to the course. *
- 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 external electronic communication is required.
* As part of class participation, I frequently ask questions (pertinent to the day’s topic, a review from the previous class, etc.) that require answers in class. These questions are answered by submitting short responses to my Hunter College email (listed above) from students’ emails, and therefore, electronic devices CAN be used during class for this purpose only, and for the time allowed (5-10 minutes). Clear and legible hand-written responses are also accepted.

PLEASE BE AWARE THAT
All assignments/work submitted to this class must be your original work and written by you alone. Copying and pasting from the Internet or another student’s work without attributing the source is plagiarism, whether intentional or not. While you may use AI tools like ChatGTP or Grammarly for feedback on how to improve your writing of essays, reports or a deeper comprehension of concepts, using AI tools to do the work for you (write answers, reports, etc.) is strictly prohibited and will be treated as plagiarism. Anyone presenting someone else’s work as their own, whether from another student, the Internet or any AI tool generating text that is copied into your work, will receive a 0 for the assignment and will be reported to the Office of Student Conduct.

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. Updates will be posted regularly on BlackBoard.

About the lab component of this course: Review carefully the syllabus provided by your lab instructor and keep in mind the general laboratory policies:

Lab exercises are due in lab at the beginning of your next class meeting or as otherwise scheduled by the individual lab instructor. 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 the week’s work and hand the lab in on time, do not wait until the next meeting. Please ask your lab instructor about how they would like you to hand in any late labs.

ADDITIONAL HELPFUL INFORMATION

My Teaching Philosophy: My goal in teaching is to help students become confident and responsible professionals and to make this experience an enjoyable one. My approach to teaching involves being a facilitator in the learning process as opposed to being the authoritarian lecturer at the front of the room with a “one-way information transfer” style. I understand and respect individual differences in learning and do my best to promote learning in the classroom by working with individual differences rather than against them. At the same time, I wish to impart technical skills and a sense of responsibility by encouraging students to play the role of professionals in the classroom.

I expect students to put their best effort into this course. This involves participating in the in-class exercises, reading the assigned material, working out in-class assignments and preparing for exams.
Lecture: I will spend part of the lecture time explaining the key concepts of weather and climate and devote time to class discussion. You are expected to devote time outside the classroom to understand the concepts and review questions. I expect that lectures and discussion will help you be ready for exams.

Finally: It is important to start with a good study habit. Consistency is the key. Forming study groups is extremely helpful. Use my office hours and any other resource available to you throughout the semester. Make progress steadily as the material in this course cannot be understood the night before the exam. Concentrate on understanding rather than ‘regurgitating’. Put out your best effort every day.

The following are useful tips to do well in this or any class:

- Attend class and take detailed notes.
- Actively participate in class discussions.
- Read the assigned material in the course textbook (or another textbook) before coming to class.
- Re-write your notes as soon as possible after class. This will allow you to fill in the details still fresh in your memory, and prepare questions for the next time the class meets.
- 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.

HUNTER COLLEGE POLICY 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.

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 affirms the prohibition of any sexual misconduct, which includes sexual violence, sexual harassment, and gender-biased harassment retaliation against student, 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 strongly encouraged to contact the College’s Title IX Campus Coordinator, Dean Jean Rose ([jtrose@hunter.cuny.edu](mailto:jtrose@hunter.cuny.edu) or 212-650-3262) or Colleen Barry ([colleen.barry@hunter.cuny.edu](mailto:colleen.barry@hunter.cuny.edu) or 212-772-4534) and seek complementary 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-link.pdf](http://www.cuny.edu/about/administration/offices/la/policy-on-sexual-misconduct-12-1-14-with-link.pdf)
A tentative summary schedule of classes and topics is provided below and will be updated on Blackboard as needed.

**Note:** Check the academic calendar for other important dates such as withdrawal dates and tuition refund as well as the final exam schedule: [http://www.hunter.cuny.edu/onestop/calendars](http://www.hunter.cuny.edu/onestop/calendars)

*** INITIAL SCHEDULE of CLASSES – Subject to change ***

<table>
<thead>
<tr>
<th>Week #</th>
<th>Date</th>
<th>Topic and Corresponding Chapter in LTHT Textbook</th>
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<tbody>
<tr>
<td>1</td>
<td>Fri 1/26</td>
<td>Syllabus &amp; Ch 1 – Introduction to the Atmosphere</td>
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<tr>
<td>2</td>
<td>Tu 1/30</td>
<td>NO CLASS</td>
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<td></td>
<td>Fri 2/2</td>
<td>Ch 1 – Introduction to the Atmosphere</td>
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<td>3</td>
<td>Tu 2/6</td>
<td>Ch 2 – Heating Earth’s Surface and Atmosphere</td>
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<td>Fri 2/9</td>
<td>Ch 2 – Heating Earth’s Surface and Atmosphere</td>
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<td>4</td>
<td>Tu 2/13</td>
<td>Ch 3 – Temperature</td>
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<td>Fri 2/16</td>
<td>Ch 3 – Temperature</td>
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<td>5</td>
<td>Tu 2/20</td>
<td>Ch 4 – Moisture and Atmospheric Stability</td>
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<td>Fri 2/23</td>
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<td>6</td>
<td>Tu 2/27</td>
<td>Ch 5 – Forms of Condensation and Precipitation</td>
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<td>Fri 3/1</td>
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<td>7</td>
<td>Tu 3/5</td>
<td>Exam 1 – Ch 1 – 5</td>
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<td>Fri 3/8</td>
<td>Ch 6 – Air Pressure and Winds</td>
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<td>8</td>
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<td>Fri 3/15</td>
<td>Ch 7 – Circulation of the Atmosphere</td>
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<td>Fri 3/22</td>
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<td>10</td>
<td>Tu 3/26</td>
<td>Ch 8 – Air Masses</td>
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<td>Fri 3/29</td>
<td>COLLEGE CLOSED – NO CLASS</td>
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<td>11</td>
<td>Tu 4/2</td>
<td>Ch 9 – Mid Latitude Cyclones</td>
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<td>Fri 4/5</td>
<td>Ch 10 – Thunderstorms and Tornadoes</td>
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<td>12</td>
<td>Tu 4/9</td>
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<td>Fri 4/12</td>
<td>Ch 11 - Hurricanes</td>
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<td>13</td>
<td>Tu 4/16</td>
<td>Exam 2 – Ch 6 – 10</td>
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<td>Fri 4/19</td>
<td>Ch 14 – Climate Change</td>
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<td>14</td>
<td>Tu 4/23</td>
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<td>Ch 14 – Climate Change</td>
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<tr>
<td>Fri 5/10</td>
<td>Ch 13 – Air Pollution</td>
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<tr>
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**Final Exam Period: Thursday 5/16 – Wednesday 5/22**