

De Anza College
Physical Science, Mathematics & Engineering Division
Meteorology 10L, Meteorology Laboratory

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| Section(s): | 12805, Summer, 2022 |
| Instructor: | Alicia T. Mullens (Pronouns: She/Her, you may have heard me previously referred to as Terrence) |
| Telephone: | (408) 864-8676 |
| Email: | mullensalicia@fhda.edu |
| Office Location | S48A (I'll be away this summer) |
| Class Days/Time: | Online |
| Classroom: | Online |
| Prerequisites: | Met 10 (Can be taken concurrently) |

Introduction

This syllabus is like the “Terms of Service” that you agree to when you download iTunes or anything else off the internet. However, this is much shorter (and with less legal jargon) and I actually expect you to read it! Your continued enrollment is your agreement to abide by the terms and conditions outlined in this syllabus.

Course Description

Welcome to the wonderful world of Weather! But instead of just talking about it, we'll get to see it in action. In this class, you'll get to work with the many data products, graphics and instruments that real life meteorologists use to forecast and understand the weather. Laboratory assignments will use information gathered from various data sources and the free lab manual. It may take a week to get the hang of things, but the class quickly becomes very doable, and in fact most people enjoy it.

IMPORTANT: If you are concurrently enrolled in my (or another) section of the Met 10 lecture course, please note that they are TWO completely different courses with different structures, deadlines, and procedures. While I work to keep the content from Met 10 in synch with the assignments from this course, the mechanics of the two courses are different.

Course Website and Communication

Everything you need for this course (Syllabus, Assignments, Lectures, etc.) can be found on the course page which can be accessed through Canvas. I will also make all communication (announcements/reminders, emails, etc) through the Canvas webpage. Please enable your Canvas settings to receive notification when an announcement is posted. I check my email regularly during business hours, and less often on evenings/weekends. If you have not heard back from me in 48 hours (give me a bit more time over the weekend), please re-send your email.

Textbook and Course Materials:

Investigations in Weather and Climate by Alicia T. Mullens (Free Download – Each Chapter of the lab manual will be available on the corresponding activity's Canvas page). Please note, I do change up the labs a little bit from term to term, so if you find answer keys floating around on the cheating websites (Chegg, CourseHero, etc), beware... they may not represent current assignments.

In the Classroom/Class Rules

Online Class: What's the Difference?

Because this is an online class, you are allowed to study/watch lectures/attempt assignments at your own leisure. However, online classes can be difficult, simply because they require more discipline than a traditional lecture. There are no meetings that you have to be present at... but you still need to be regularly involved in the class to succeed.

Assignments: This class is broken into **six weeks**. Each week will consist of three or four laboratory investigations (each lab will have a video demonstration). Expect to spend approximately 3 hours for each two-part lab investigation, not including time spent studying/preparing for the class. There will also be a quiz every two weeks. The week's assignments will be posted no later than **12am the Monday** of the week and due by **11:59pm that Sunday**. In order to be prepared for each quiz, I strongly recommend that you complete the week's discussion and laboratory investigations PRIOR to attempting the quiz.

A Word of Warning: While you are free to work on the modules at your leisure, I strongly urge you to **not wait until the last minute to submit a module activity**. If anything causes you to submit any module activity after the deadline, regardless of reason, you will still be assessed a late penalty. Also, you are completely responsible for making sure that your work is submitted properly. **PLEASE READ: It is assumed that you are completing your course work at home, in the United States, with a high speed internet connection and access to the Canvas page. If you choose to, or need to travel abroad during the course, you are still responsible for making sure that you are able to access and submit all course materials in a timely manner. I will not give extensions nor make exceptions to the deadlines and policies in this class for those who travel abroad.**

Getting off to a good start: Because it often takes a little time to get accustomed to online classes, nothing is due until the conclusion of the 1st week of class (Sunday, July 3rd, 2021). However, I still expect you to begin working on class material as soon as the quarter begins. For census purposes, I must drop anyone who hasn't logged on or completed any work by 11:59pm on Sunday, July 3rd. I will not make exceptions to this policy!

Attendance/Punctuality: You are expected to log in to the course website **at least twice per week**, and that is the bare minimum. You will be dropped from the course if you fail to log on for the first time by Sunday, July 3rd, you fail to log on at least once each week, or if you fail to turn in at least one laboratory activity in a two-week period. Regardless,

if you choose to drop the course, it is your responsibility to do so. If you fail to drop before the deadline, I will have to award you a grade, most likely an F.

Issues/Grievances: While I try my best to make this class a positive learning environment, there is always the chance that either something I or someone else in class does might not sit well with you; if that is the case, I am more than happy to hear any grievances in private. I've found that 99.9% of any issues that arise are easily settled (and to everyone's satisfaction) by a brief conversation.

Lab Partners: In this class, you have the choice of either working on lab assignments on your own, or in groups that you arrange with online. However, each person must submit their own lab assignments, and may not work together on quizzes (and if I catch anyone doing this, both parties will receive a "0" on the quiz... you've been warned!).

Assignments and Grading

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| Laboratory Assignments (20 @ 25 points each, lowest 2 dropped)... | 450 pts |
| Quizzes (3 @ 50 points each, lowest dropped)... | 100 pts |
| Total... | 550pts |

Grading Scale:

>495 = A, 440-494 = B, 357-439 = C, 302-356 = D, < 302 = F

+/- grades are assigned when a grade is within 11 points (2%) of the next grade.

Note: I reserve the right to adjust this scale, but only to benefit you.

Laboratory Assignments: Each module will consist of three or four laboratory investigations from the Lab Manual. The labs will be submitted using an online form linked on the assignment's Canvas page. Because each laboratory assignment has a different number of questions, I scale each assignment to a point total of 25 (so that one lab doesn't carry a larger or smaller weight than another). All laboratory assignments are due at the end of the respective week, unless I announce an alternative due date.

Late Work/Makeup Policy: Every laboratory activity, EXCEPT the stuff from Module 6 (because its due on the last day of the course) will have an automatic 3-day extension available. The extension is automatically available, meaning you don't need to ask for it. However, please note that I expect you to still adhere to the posted due dates for all assignments, only using the extension when necessary (mainly because if you decide to view the extension as a due date, and then something comes up, I WILL NOT grant additional extensions under ANY circumstances). If you choose to use an extension, your work will still be listed on Canvas as "Late," but you will not be penalized.

Returned Work: It is your responsibility to hold on to any returned work until the conclusion of the quarter. In the event I made an error in your grade, you may need to present the assignment to me for verification.

Dropping

I will drop you if:

- You miss more than two complete lab investigations
-or-
- You fail to log on at least once a week.

Otherwise, if you choose to drop the class, you must do so on your own.

The Deadline to Drop this class with a W is Friday, July 22nd

Other Policies

Disabilities: If you need any accommodation due to a disability (note taker, etc.), please don't hesitate to let me know and I'll be happy to help! All accommodations will need to be made through Disability Support Programs and Services (DSPS), which is located at RSS-141, or online at <https://www.deanza.edu/dsps/>.

Academic Integrity: I will NOT tolerate cheating or plagiarism of any kind! This includes submitting work under a fake name in order to get answers prior to submitting your work, sharing answers on a Discord Server, finding answers on Chegg or "CheatHero" also known as Course Hero, Quizlet or whatever other dark web cheating site exists (if this happens, I have to throw out the assignment and make everyone in the class do an alternative assignment). While you're allowed (actually, encouraged) to work together on labs, you must turn in your own answer sheet, and in your own words (or problem sets/graphs need to still be done individually)! Just this past quarter, I had several students turn in IDENTICAL graphs (meaning it was the same sheet of paper, just photocopied), and they all got "zeros" on it (I'm stern, but not a jerk... I let them all draw their own plots and turn them in for credit). This isn't to be mean... I need to make sure that ALL of you know how to do the work, and identical submissions usually mean that just one person did the work.

The first offense results in a grade of "0" on the assignment and a stern warning. Any subsequent offense results in a report filed with student affairs. I will enforce this! You do have a right to contest my decision to me (don't just say "that's not fair!" I'm telling you right now what my policy is, so you've been warned) or the school... however, please note that I only go after blatant cases of academic dishonesty (identical papers, including formatting, errors, and even handwriting, answers taken almost word-for-word from a website, an answer key posted, illegally should I add, to sites like Chegg, CourseHero and Discord, etc), and only penalize instances where I have substantial evidence of wrongdoing (Example: If your answer the written question in investigation 8A involves the phrase "Divergence in the Conclusions," I know that you got that from a website or an answer key... if you don't cite it, that's academically dishonest!). Also, I reserve copyrights on all of my materials, and while I don't mind if you're sharing my lectures, review sheets, etc, I do reserve the right to pursue charges of Copyright Infringement for any material (answer keys, quiz questions, etc) that is being shared with the goal of "cheating" in the class.

In all Seriousness, PLEASE don't do it! I get it... you want to get an A as painlessly as possible... I will do everything I can to help you get there, and, with few exceptions, this material and assignments are not very difficult... and the most difficult material can easily be navigated by just reaching out for help... I AM HERE FOR YOU, so please take advantage of that. There is NOTHING you will see in this class that is worth committing academic dishonesty over.

Final Grade Changes: At the end of every term, almost without fail, at least one or two students approach me to ask for additional work/some leeway with their grade to earn a higher grade. While I appreciate the gravity that grades can have, I need to both be fair to the rest of the class (I don't think other students would appreciate it if I just bumped another student's grade without merit, or gave them extra work without making it available to the rest of the class) and maintain my own academic integrity (i.e. I can get in trouble for awarding grades that were not earned), so I must deny all requests for a higher grade, except in instances where I made a mistake. However, I am more than happy to help you earn a good grade if you reach out to me for help (don't just ask questions about the mechanics of the course, extensions grades, etc... ask about the CONTENT of the course... ask about concepts you are having a hard time understanding, etc.) before the end of the term. There will also be plenty of extra credit during the course.

Course Schedule

| Date | Topics, Readings, Assignments, Deadlines |
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| 6/28-7/4 | Lab 0: Orientation Lab (Procedures/Resources/Maps) Lab 1: Surface and Upper-Air Weather Week 1 Labs due by 11:59pm on 7/3 |
| 7/5-7/11 | Lab 2: Heat, Radiation, and Seasons Lab 3: Air Temperature and Applications Quiz #1 (Opens on 7/5) Week 2 Labs and Quiz 1 due by 11:59pm on 7/10 |
| 7/12-7/18 | Lab 4: Clouds, Moisture and Rising Air Lab 5: Weather Data, Satellite, and Radar Week 3 Labs due by 11:59pm on 7/17 |
| 7/19-7/25 | Lab 6: Air Pressure Lab 7: Surface and Upper-Air Winds Quiz #2 (Opens on 7/19) Week 4 Labs and Quiz 2 due by 11:59pm on 7/24 |
| 7/26-8/1 | Lab 8: El Nino and La Nina Lab 9: Mid-Latitude Cyclones and Fronts Week 5 Labs due by 11:59pm on 7/31 |
| 8/2-8/6 | Lab 10: Thunderstorms and Tornadoes Lab 11: Hurricanes Quiz #3 (Opens on 8/1) Week 6 Labs and Quiz 3 due by 11:59pm on 8/5 |

NOTE: This schedule is tentative and Subject to Change for any reason (and it probably will)!

Student Learning Outcome(s):

*Assess and defend the analysis and decision-making skills employed by meteorologists to diagnose air patterns, understand air motions and predict future atmospheric conditions.

Office Hours: