



*Physical Science, Math & Engineering Division  
Earth & Space Science Program – Meteorology Department*

**Logistical Information:**

<b>Course</b>	Meteorology 10 – Weather & Climate Processes
<b>Section</b>	65Z (CRN 11744)
<b>Term</b>	Summer 2021
<b>Instructor</b>	Bridget James
<b>Class Location</b>	Online/Asynchronous - <a href="http://canvas.deanza.edu">http://canvas.deanza.edu</a>
<b>Office Hours</b>	Wednesdays 2:00 – 4:00 pm
<b>Office Location</b>	Online/Email
<b>Email</b>	<a href="mailto:jamesbridget@fhda.edu">jamesbridget@fhda.edu</a>

**Required Materials:**

- Nugent, Alison, et al, 2020, Atmospheric Processes and Phenomenon, 1<sup>st</sup> Edition, Open Educational Resource: <http://pressbooks-dev.oer.hawaii.edu/atmo/>
- Regular and reliable access to a computer with a good and reliable Internet connection

**Course Description:**

This course is an introduction to the sciences of meteorology and climatology. How scientists evaluate atmospheric processes using the scientific method will be emphasized throughout the course.

**About Online Courses:**

There is no difference in the content covered between an in-person course and an online course, but there are benefits and challenges to an “online classroom” environment that need to be kept in mind when taking a fully asynchronous online course such as this one, particularly if you are used to an “in-person classroom” environment. An asynchronous online classroom offers much more flexibility in completion of course material. However, you will need to have good self-discipline in completing these tasks in a timely manner. You should plan on working at least 3-4 hours per module this quarter. This includes the following: 1.) Participating in a weekly forum; 2.) Completing everything assigned within each module; 3.) Studying for the exams; and 4.) Taking exams when available. More information on all of these assignments can be found below. Success tip: Avoid “last-minute” completion of modules, and work ahead when and where possible. This puts you in control of your success in the course. If you have a calendar, use it to schedule when you will work on modules and stick to it. If you do not keep a calendar, strongly consider starting one for this course.

**Modules:**

A module is a specific and discrete learning segment that leads to the understanding of a given topic. Modules are assigned by topic on Canvas. Modules include all assignments and tasks that will be completed for a particular topic and are to be completed within the dates specified on the syllabus (schedule is below and on Canvas). All modules will include the following tasks to complete: 1.) Listening to lectures; 2.) Completing the module activity. Weekly forum participation assignments will also be assigned.

**Lectures:**

Lectures will be presented online as Power Point presentations converted into a format that can be watched and listened to on YouTube ©. A link to each lecture will be provided. It will be expected that you take notes while listening to the lecture, much like a traditional course. A benefit to a recorded lecture is you can re-listen to any topic at any time. Any questions you may have during the lecture should also be written down immediately in your notebook. Sometimes, those questions answer themselves further in the lecture. What isn’t answered should be e-mailed to me or posted in the online forum to get feedback from your fellow students (or both).

Missing lectures can severely impact your ability to learn the course material, leading to a poor grade. Exam questions almost always come directly from lectures, so be sure to discipline yourself to listen and take notes. Then, spend the time to study the concepts learned in the lecture for mastery on the upcoming exam. Notes do not need to be turned in to me. Please keep those for studying purposes.

**Weekly Discussions (20% of your grade):**

There will be five weekly discussion assignments this quarter. More details of what will be expected of you can be found by reading the assignment instructions. The lowest Discussion Participation score will be dropped from your final grade (see “Grading” below for details). Some important notes: 1.) It is your responsibility to verify that your post actually posted onto the page before leaving a forum; 2.) Biology-focused posts are considered off-topic in the discussion and won’t count for credit; 3.) There is a presumption and expectation that all work submitted is above board,

honest, and not plagiarized. Grades can be retroactively changed anytime during the quarter where dishonest and/or plagiarized work has been later found on any assignment in this course. See the section titled “Policy on Academic Dishonesty” below for details.

**Activities (60% of your grade):**

There will be eleven module activities this quarter. Module activities are assignments that are completed after reading the associated chapter within your textbook and listening to the lecture associated with that module. Module Activities are due on the date/time stated within the instructions of each assignment. These assignments are designed to help introduce important concepts in the lecture as a first step to help students master the course material in preparation for exams. These activities are both problem solving and/or review questions based on the lecture, module activity and/or films watched. You will turn in these activities online on Canvas. Emailed assignments are not accepted for any reason. Each activity will have submission instructions. If you have a situation where you cannot submit an activity by its due date, I will accept most activities late without penalty, but only for a specified period of time (see activity instructions for details). Once that period of time (the grace period) has passed, I will not accept the activity for any reason, including emergencies. The lowest scored module activity will also be dropped from your final grade.

**Exams (20% of your grade):**

There will be two online timed (70 minute) exams for this course that will be in a multiple-choice format. See syllabus and study guide for date and time of exam availability. You can choose to take the exams anytime during the exam period. A study guide, which will let you know the details of each exam (how many questions, etc), will be posted on the course website for studying purposes ahead of the exam start date. Much like a classroom exam, once you submit your answers, your exam score will not be available to you immediately. Your score will be made available to you within a few days of the exam closure.

**WARNING: IT IS YOUR RESPONSIBILITY TO UNDERSTAND WHEN AN EXAM OPENS AND CLOSSES. IF YOU MISS AN EXAM DUE TO MISUNDERSTANDING THE SCHEDULE, INTERNET ISSUES, CANVAS ISSUES, HOSPITAL STAYS, OR FOR ANY OTHER REASON, EVEN IF THAT REASON IS OUT OF YOUR CONTROL, YOU WILL STILL RECEIVE A ZERO ON THAT EXAM. NO EXCEPTIONS.**

**Grading**

Best 4 out of 5 Discussions (50 points each)	20% (200 points)
10 out of 11 Module Activities (60 points each)	60% (500 points)
Best 1 out of 2 Exams (200 points)	20% (300 points)
Total Points:	100% (1000 points)

A: 920-1000	C+: 780-799	D-: 600-619
A-: 900-919	C: 720-779	F: Below 600
B+: 880-899	C-: 700-719	
B: 820-879	D+: 680-699	
B-: 800-819	D: 620-679	

**Important note about travel:**

It is assumed that you are completing this course at home within the U.S. and that you have excellent Internet access for the entire quarter. If you need to take this course inside or outside the U.S., it will be your responsibility to make sure you have access to the course and all of its assignments. All assignments, including exams, will not be extended for you because you choose or need to travel for any extended period of time during the quarter, even if that reason is out of your control. It’s important to note that many countries outside of the U.S. block the use of YouTube and the ability to watch U.S. documentaries. If you plan on travelling to a country that has these limitations, it’s best to drop this course and take it during a quarter that you will not be travelling. Also, please note that all dates and times given in this course are in Pacific Time unless otherwise noted.

**Policy on Academic Dishonesty:**

A student who displays inappropriate conduct, including cheating and plagiarism, may be subject to disciplinary action. Cheating and plagiarism includes copying and pasting articles and/or other people’s work in any of the discussions as if it were your own words. Any student may be expelled, suspended, placed on probation, or given a lesser sanction depending on the severity of the offense. For more information, please see the college catalog.

**Important note on attendance:**

If you have not logged into Canvas (course website) within 48 hours of the start of instruction, I reserve the right to drop you from the course. I also reserve the right to withdrawal any student who has not logged into the course website and/or completed any assignments for one week at any time during the quarter. However, it is always the student’s responsibility to drop a course they are no longer attending. The drop deadline for Summer 2021 is Thursday, July 1<sup>st</sup>, 2021 and the last day to drop with a “W” on your record is Thursday, July 22<sup>nd</sup>, 2021.

**Note for students with disabilities:**

Students with disabilities who need reasonable accommodations are encouraged to contact the instructor and/or DSS. Disability Support Services (DSS) will facilitate the reasonable accommodations process. DSS is located in SCS 41 and can be reached by telephone (Voice 408-864-8753/TTY 408-864-8748).

**Course Schedule:**

Module 1: Introduction to the Atmosphere, Due: Tues, June 29<sup>th</sup>

Module 2: Earth's Heat & Temperature, Due: Fri, July 2<sup>nd</sup>

Module 3: Humidity, Condensation & Clouds, Due: Tues, July 6<sup>th</sup>

Module 4: Atmospheric Stability & Precipitation, Due: Fri, July 9<sup>th</sup>

Module 5: Air Pressure & Wind, Due: Tues, July 13<sup>th</sup> (Note: Module Activity 5 does not have a grace period)

**MIDTERM EXAM: WEDNESDAY, JULY 14<sup>TH</sup> (OPEN BETWEEN 8 AM – 11:59 PM)**

Module 6: Atmospheric Circulation & El Niño, Due: Fri, July 16<sup>th</sup>

Module 7: Air Masses & Weather Fronts, Due: Tue, July 20<sup>th</sup>

Module 8: Thunderstorms, Due: Fri, July 23<sup>rd</sup>

Module 9: Hurricanes, Due: Tue, July 27<sup>th</sup>

Module 10: Climate Change, Due: Fri, July 30<sup>th</sup>

Module 11: Climate Change, Due: Tue, Aug 3<sup>rd</sup> (Note: Module Activity 11 does not have a grace period)

**FINAL EXAM: WEDNESDAY, AUGUST 4<sup>TH</sup> (OPEN BETWEEN 8 AM – 11:59 PM)**

**Important Administrative Dates**

June 28<sup>th</sup> (Mon): First day of class

July 1<sup>st</sup> (Thurs): Drop deadline with no record of grade

July 22<sup>nd</sup> (Thurs): Last day to drop with a "W"

**Student Learning Outcome(s):**

\*Analyze and explain the objective techniques used by synoptic meteorologists and climatologists to forecast our planet's weather and to predict future changes in our planet's climate.

\*Assess and critique the impact of meteorology and climatology as sciences on local, national and international economic, environmental, ethical and political issues including climate change.