



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

**Logistical Information:**

<b>Course</b>	Meteorology 10 – Weather & Climate Processes (Online)
<b>Section</b>	66Z (CRN 12414)
<b>Term</b>	Summer 2019
<b>Instructor</b>	Bridget James
<b>Class Location</b>	<a href="http://canvas.deanza.edu">http://canvas.deanza.edu</a>
<b>Office Hours</b>	Wednesdays and Thursdays 3 – 5 pm
<b>Office Location</b>	Online/Email
<b>Email</b>	<a href="mailto:jamesbridget@fhda.edu">jamesbridget@fhda.edu</a>

**Required Materials:**

- James, B., 2017, Discover Planet Earth: Weather and Climate Processes, 1<sup>st</sup> Edition, Kendall-Hunt Publishing Company (e-book) [Purchase online at <http://www.grtep.com> to gain immediate access.]
- Regular and reliable access to a computer with a good 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 really no difference in material 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 online course such as this one, particularly if you are used to an “in-person classroom” environment. Online classrooms offer 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. This three-unit summer course equates to approximately 60 hours of work for the entire term. This does not include the extra study time needed for subject mastery, which is estimated to be approximately 90 additional hours. To master the material covered this quarter in this online course, you will need to make sure you: 1.) Participate in a weekly discussion; 2.) Complete everything assigned within each module; 3.) Spend the time to master the topics covered after completing a module in preparation for the final exam (study, study, study!); 4.) Check where you get your De Anza email and/or the “Announcements” link at the top left of the home page on Canvas several times a week for important course announcements; 4.) Take the final exam during its assigned time.

**Modules:**

A module is a specific and discrete learning segment that leads to the understanding of a given topic. Modules will be 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.) Reading the assigned chapter for each module in the textbook for the course; 2.) Listening to lecture(s); 3.) Completing the Module Activity. In addition, it’s possible you will also have a documentary to watch. For instructions on how to complete the above tasks, please read the instructions for each task below.

**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 discussion to get feedback from your fellow students (or both).

Missing lectures will severely impact your ability to learn the course material, leading to a poor grade. Subject Mastery Test 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.

**WARNING:** If you email me a help question about the lecture, please be as specific as possible in what you need help with. A general “I don’t get this topic, please help” will not be enough. You may need to re-listen to the lecture

(sometimes more than once) to get at the details of your confusion. This is very important. I need to know where your specific confusion lies, so I can give you the specific help that you need. If you decide to pose your question to the class via the discussion, you will need to be very specific as well. One question posts in the discussion, without any specific details, will not count for credit in the discussion

**Weekly Discussions (30% of your grade):**

There will be four discussion assignments this quarter. One time each week for C-level work, or several times each week (earlier and later in the week) for A-level or B-level work, you will be required to participate in an online discussion on topics involving the Earth Sciences. More details of what will be expected of you can be found by reading the “Discussion Guidelines”. Discussion posts cannot be accepted late for any reason. However, the lowest scored discussion assignment will be dropped from your final grade, making this entire assignment worth 300 points.

Some important notes:

- 1.) It is your responsibility to verify that your post actually posted onto the page before leaving a discussion;
- 2.) Biology-focused posts are considered off-topic in the discussion and won’t count for credit. See discussion guidelines for more information;
- 3.) There is a presumption and expectation that all work submitted is above board and honest. However, realize that grades for discussion participation (and other assignments) can be retroactively changed at any time during the quarter if plagiarism, cheating and/or dishonesty of any kind is discovered after a grade has been assigned. See the section titled “Policy on Academic Dishonesty” below for details.

**Module Activities (50% 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 within the modules assigned that week. 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 subject mastery (i.e. study for the final exam!). 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. However, the lowest activity score will be dropped from your final grade, making this entire assignment worth 500 points.

**Subject Mastery Final exam (20% of your grade):**

There will be one online timed (70 minute) exam for this course that will be an objective-type multiple-choice exam. See syllabus (last page) and study guide for exact dates and times you may take this exam. You can choose to take the exam anytime during the exam period, but you may only take the exam one time. For example, if you take the exam at 8 am on Saturday, you won’t have another opportunity to take it again.

A study guide, which will let you know the details of the exam (how many questions, etc), will be posted on the course website for studying purposes a few weeks ahead of the exam date. A sample exam for your studying purposes will be available a few days before the exam date.

You may use notes while you take the exam, but because the exams are timed once you start them, you should master the subjects you are being tested on before attempting an exam so that you can finish in plenty of time. I highly recommend having a small index card worth of notes nearby and your completed sample exam while you are taking the exam. Do not spend time going through your notes, the Internet, or the textbook for answers while taking the exam. That is not an indication of subject mastery and the exam is timed to prevent that from occurring.

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 week of your finishing the exam. I will post an announcement when exam scores are ready.

**WARNING: IT IS YOUR RESPONSIBILITY TO UNDERSTAND WHEN AN EXAM OPENS AND CLOSES. 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 3 out of 4 Discussions (100 points ea.) 30% (300 points)  
 Best 10 out of 11 Activities (50 points each) 50% (500 points)  
 Final (200 points): 20% (200 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 travel, whether 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 subject mastery 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.

**Policy for Dropping Students:**

If you have not logged in to Canvas (course website) within 48 hours of the start of instruction, I reserve the right to drop you from the course. However, it is always the student's responsibility to drop a course they are no longer attending. The drop deadline for Summer 2019 is Monday, July 8<sup>th</sup> and the last day to drop with a "W" on your record is Tuesday, July 30<sup>th</sup>.

**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).

**Important Administrative Dates**

July 1<sup>st</sup> (Mon): First day of class  
July 8<sup>th</sup> (Mon): Drop deadline with no record of grade  
July 30<sup>th</sup> (Tue): Last day to drop with a "W"

**Course Schedule:**

Module 1: Introduction to the Atmosphere	DUE Wed, July 3
Module 2: Earth's Heat & Temperature	DUE Fri, July 5
Module 3: Humidity, Condensation & Clouds	DUE Wed, July 10
Module 4: Atmospheric Stability & Precip.	DUE Fri, July 12
Module 5: Air Pressure & Wind	DUE Sun, July 14
Module 6: Atmospheric Circulation & El Niño	DUE Wed, July 17
Module 7: Air Masses & Weather Fronts	DUE Fri, July 19
Module 8: Thunderstorms	DUE Wed, July 24
Module 9: Hurricanes	DUE Fri, July 26
Module 10: Climate Change	DUE Wed, July 31
Module 11: Climate Change Part II	DUE Fri, Aug 2

FINAL EXAM: MONDAY, AUGUST 5<sup>TH</sup> AT 8 AM - TUESDAY, AUGUST 6<sup>TH</sup> AT 10 PM

**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.