



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

**Logistical Information:**

<b>Course</b>	Meteorology 10 – Weather & Climate Processes (Online)
<b>Sections</b>	61Z & 65Z
<b>Term</b>	Summer 2017
<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 & Thursdays 2 – 4 pm
<b>Office Location</b>	Online/Email
<b>Email</b>	<a href="mailto:jamesbridget@fhda.edu">jamesbridget@fhda.edu</a>

**Required Materials**

- Ahrens, C.D., 2014, Essentials of Meteorology, Brooks Cole, 7<sup>th</sup> Edition (older edition is also okay to use)
- Regular and reliable access to a computer with a good Internet connection.

**Course Description and Student Learning Outcomes**

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. Student learning outcomes for this course is: 1) 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. 2) 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.

**About Online Courses**

Online courses are different from traditional lecture courses. They offer much more flexibility in completing assignments and listening to lectures. However, you will need to have good self-discipline in completing these tasks, especially in a timely manner. This is a five-unit course. This equates to approximately five hours of work per week during a regular semester, but since you are taking this course in an accelerated Summer Session, expect to spend at least 10-15 hours a week. This does not include the extra study time (for exams, etc) in addition to those mandatory class hours. If you are planning on mastering the material covered this semester, you will need to make sure you 1.) Are engaged in the course at least 10-15 hours a week (not including study time); 2.) Login at least two different days during the week (to maximize forum participation points); 3.) Check your De Anza email or the “Announcements” section at the top left of the home page several times a week for important announcements.

**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 online). All modules will include the following tasks to complete: 1) Discussion; 2) Listening to lectures; 3) 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 movie file that can be watched and listened to on YouTube ©. It will be expected that you take notes while listening to the lecture, much like a traditional lecture course. A benefit to a recorded lecture is you can re-listen to any topic at anytime. 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 participation to get feedback from your fellow students.

Missing lectures will severely impact your ability to learn the course material, and most likely will severely hurt your grade, much like in a traditional class. Exam questions almost always come directly from these lectures, so be sure to discipline yourself to listen and take notes. 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 four discussion assignments this semester. One time each week for C-level (70%) work, or several times each week (earlier and later in the week) for A-level or B-level work (80-100%), 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 in the instructions of each weekly discussion assignment. Discussion posts cannot be accepted late for any reason. However, there will be a make-up discussion provided to make-up one single missed discussion if needed. Important note: It is your responsibility to verify that your post actually posted on to the page before completely leaving a discussion.

### **Module Activities (50% of your grade)**

Module activities are assignments that are completed after listening to a lecture on a particular topic within a module and are due by the end of the week that module is assigned for. These assignments are designed to help students master the course material in preparation for the exams. These activities are both problem solving and review questions based on the lecture, module activity and/or films watched. You will turn in these activities online. Emailed assignments are not accepted for any reason. The top of each activity will have submission instructions. There will be 11 module activities this semester. If you have a situation where you cannot submit an activity in on time, most activities will have a grace period. Once that grace period has passed, I will not accept that activity for any reason. The instructions of each activity will state the grace period (if any). The lowest Module Activity score will be dropped from your final grade.

**IMPORTANT:** Attempting to turn in a module activity just before the grace period deadline is at your own risk. If you miss this deadline for any reason at all, even if that reason is out of your control, and you cannot get your assignment turned in because you waited until the very last day of your grace period to turn it in, that is completely on you and you will receive a zero on those activities. No exceptions. It is also your responsibility to make sure your activity has submitted properly. No exceptions.

### **Final Exam (300 points total, 30% of your grade):**

There will be one online timed (70 minute) exam for this course that will be an objective-type multiple-choice exam. The exam will be available on Monday, August 7<sup>th</sup> starting at 8 am. You can choose to take it at anytime on Monday, however, you may only take the exam one time. For example, if you take the exam at 8 am, you won't have another opportunity to take it later in the day. If you cannot take the exam on Monday, August 7<sup>th</sup>, an automatic extension of time (you do not need to ask me for it) to take the exam will be given. This extension will last up until Thursday, August 10<sup>th</sup> at 11:55 pm. However, please take the exam as close to Monday as possible. The closer you wait to the last day the exam is open, the better your chances something will get in the way of you taking that exam at all, which would ultimately result in a score of 0/300, as no further extensions will be given for any reason (see warning below).

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 two weeks in advance of the exam date. I will also post a sample exam for your studying purposes, which will be available one week 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 near by and your completed sample exam while you are taking the exam to help you save time thumbing through your notes and textbook for answers.

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 24 hours after the exam grace period ends.

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

### **Grading**

Forum Participation (4)	20% (200 points)
Module Activities (10)	50% (500 points)
Exams (1)	30% (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 semester. It is recommended that you take this course at a time where you will be in the United States the entire semester. If you need to travel, it will be your responsibility to make sure you have access to the course and all of its assignments. Assignments, including exams, will not be extended for you because you choose or need to travel for any extended period of time during the semester, even if that reason is out of your control. 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, will be subject to disciplinary action. This includes copying information from the internet. At minimum, a student will receive a “zero” for the assignment in question and will be reported to the College for further action. For more information on academic dishonesty, please see the college catalog.

### **Policy for Dropping Students**

Students who have not logged into the course website on Canvas and participated in the class within three days of the start of instruction may be dropped for non-attendance. However, it is **always** the student’s responsibility to drop courses they have registered for before the drop deadline if they wish to drop.

### **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:**

- Last day to add course: July 9<sup>th</sup> (Sun)
- Last day to drop without a W: July 10<sup>th</sup> (Mon)
- Last day to drop with a W: August 1<sup>st</sup> (Tues)

### **WEEKLY SCHEDULE**

#### **Monday, July 3<sup>rd</sup> – Sunday, July 9<sup>th</sup>**

Module 1: Introduction to the Atmosphere (Due Wed) Module 2: Heat & Temperature (Due Sun)
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#### **Monday, July 10<sup>th</sup> – Sunday, July 16<sup>th</sup>**

Module 3: Humidity, Condensation & Clouds (Due Wed) Module 4: Atmospheric Stability & Precipitation (Due Sun)
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#### **Monday, July 17<sup>th</sup> – Sun, July 23<sup>rd</sup>**

Module 5: Air Pressure & Wind (Due Wed) Module 6: Atmospheric Circulation & El Nino (Due Sun)
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#### **Monday, July 24<sup>th</sup> – Sunday, July 30<sup>th</sup>**

Module 7: Air Masses & Weather Fronts (Due Wed) Module 8: Thunderstorms (Due Sun)
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#### **Monday, July 31<sup>st</sup> – Sunday, August 6<sup>th</sup>**

Module 9: Hurricanes (Due Wed) – Reduced grace period Module 10: Climate change, Part I (Due Fri) – Reduced grace period Module 11: Climate Change, Part II (Due Sun) – No grace period
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### **FINAL EXAM - MONDAY, AUGUST 7<sup>TH</sup>**

**(This 70-minute timed exam can be taken anytime between 8 am and 11:55 pm)**