

Course Syllabus

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Geology 130: Climate and Weather

Spring 2023/Imperial Valley College

Kevin Marty

Climate and Weather is an entry level course on principles and concepts of science relevant to meteorology and climate.

<---- See Sidebar for Modules, Assignments, Announcements, Quizzes and other links

Hello and welcome to Geology 130 (Climate and Weather Science). Below is the syllabus that outlines what this course is about and how we will cover the course material during this semester (along with other important information). Once you have reviewed the syllabus, please go to the modules section of Canvas (just click on the "Home" button to the upper left for buttons to each lesson module; OR click on the "Modules" button to the upper left and scroll through the lesson modules) and you can start your assignments.

Basic Course Information

Semester	Spring 2023	Instructor Name	Kevin Marty
Course Title & #	Geology 130: Climate and Weather	Email	kevin.marty@imperial.edu (mailto:kevin.marty@imperial.edu)

CRN #	20406	Webpage (optional)	
Room	Online	Office	2776 (N/A this semester)
Class Dates	February 13-June 9	Office Hours	TBD
Class Days	Online	Office Phone #	760-355-5761 (N/A this semester)
Class Times Units	Online 3	Office contact if student will be out or emergency	(Science Dept) at 760-355-6155

Course Description

This course will engage the student in learning the key concepts and scientific principles of Climate and Weather Science by analyzing interactions among and between Earth's Systems as matter and energy are continuously exchanged, and the influence from our position in the Solar System and Universe. We will examine the processes that occur in our atmosphere and hydrosphere, and how these processes create Earth's climate and weather. We must also consider how the Earth (geosphere) and its inhabitants (biosphere) have changed through time, how humans interact with weather and climate systems, and strategies to counter negative impacts to global climate change.

This course is intended for both science majors and non-science majors taking their first course in atmospheric science. One overriding goal of the textbook used in this course (through the American Meteorological Society) is to bridge the gap between abstract explanatory processes and the expression of those processes in everyday events- so that students with little or no science background will be able to build a non-mathematical understanding of the atmosphere.

(C-ID GEOL 130) (CSU, UC)

Student Learning Outcomes

Upon course completion, the successful student will have acquired new skills, knowledge, and or attitudes as demonstrated by being able to:

1. Analyze and use web-based resources in science learning (ILO1, ILO2, ILO4).
2. Utilize scientific methodology as problem-solving techniques to learn key concepts of earth science and specifically weather/climate science (ILO1, ILO2).
3. Use the vocabulary and concepts of weather/climate science to describe and consider local and global issues (ILO1, ILO4, ILO5).

Course Objectives

Upon satisfactory completion of the course, students will be able to:

1. Comprehend key concepts, developments, and reasoning strategies used in studying climate and weather such that they are able to analyze and solve problems in open-ended, inquiry environments using materials, maps, data collection tools, models and computer simulations, other class activities and discussions, and background readings.

2. Relate and evaluate the study of the climate and weather to contemporary, historical, technological and societal issues.
3. Demonstrate the ability to analyze and use web-based resources in climate and weather science learning.
4. Exhibit skills in utilizing scientific methodology as a problem-solving technique to learn key concepts of atmospheric science.
5. Demonstrate knowledge of climate and weather science vocabulary and concepts to describe local issues within a global context.
6. Reflect upon the nature and practice of climate and weather science as a process rather than a body of disconnected facts to be memorized.
7. Demonstrate skills in analyzing the factors which might affect the climate and weather of the future and to understand what ramifications on the lives of people these changes might have.

Textbooks & Other Resources or Links

The 7th edition of "Weather Studies" Student Package published by the American Meteorology Society (AMS); ISBN: 978-1-944970-73-4...AND ..."Weather Studies" eInvestigations Manual. The package gives you access to the AMS Realtime Weather Portal.

the cost of Student Package for 2022 is \$144.00 (it is a rental for the duration of 6 months). It can be read online or downloaded using ePub Download. You will see several choices at the AMS bookstore website (click on link below).

[Weather Studies Student Package 2022-2023](https://edubooks.ametsoc.org/WXPK-22) [↗ \(https://edubooks.ametsoc.org/WXPK-22\)](https://edubooks.ametsoc.org/WXPK-22)

I apologize for the cost of your books this semester; after trying to put together an entry level weather and climate studies course using a variety of sources I have found that the AMS site is the best option for entry level studies. While this isn't a lab class, the lab book and assignments from the lab book are required and should be a good enhancement to your understanding and learning the course material.

Course Requirements and Instructional Methods

Course Philosophy and Teaching Method: The subject of Atmospheric Science is as vast and diverse as the natural world around us. Together, we will explore and visualize this dynamic world in a number of ways; in no way will it be a static collection of facts. Accordingly, we will concentrate on understanding natural processes and how we explore and learn things about our planet and its weather and climate, rather than terms and factual trivia. We will concentrate on active, inquiry-based learning and will learn how to observe, think about, and understand our place in the natural environment. The critical inquiry and observational skills that we cultivate this semester should be useful in any profession, since they give you an appreciation of how climate processes in our natural world impact our environment and society.

Course Expectations: My role in this class is to provide a framework that includes theory, best practices, activities, and assignments for you to utilize in the development of your knowledge, understanding, and skills. I care very much how and what you learn in this class, but I believe that you are responsible for participating in learning from the activities provided. This class requires significant preparation and reading.

Course Grading Based on Course Objectives

Grades: In this course, your grade will be based on points that you earn. There are approximately 670 possible points, which are outlined below:

Point Distribution Summary*	Points
Course Project: Natural Disaster Tracking (current weather disasters); not applicable this Spring 2023	N/A
Discussion Questions (Critical Thinking Questions)~8 Discussion Posts	~80
Investigation Manual Questions (1A-15A)	~150
Current Weather Studies (CWS at Weather Portal)	~150
15 Quizzes (each worth 7.5 pts) Two Tests (50 pts each)	~200
Total Points Possible	~600

-Chapter Quizzes and Chapter Review Questions; Two Tests (generally after every seven chapters):

This course covers 14 chapters from your textbook. Chapter Quizzes are due generally each week by Sunday night at 11:59 pm and consist of 15 multiple choice questions (7.5 pts total).

Generally after every seven chapters of coverage (from your textbook) a test will be required and consist of 50 multiple choice questions (and worth 50 pts each).

-Discussion Posts including Introductory Post: Initial Posts and Response Posts

You are expected to participate in discussion boards (submit a post) over a topic posed by your instructor. These may not have a right or wrong answer (subjective) but draw on your ability to research topics and formulate responses, sometimes opinions, that are supported by your research (when you state ideas/opinions support your statements with evidence or data, for example). Be thorough and concise in your posts (meaning, keep your discussion relevant, staying on topic, but not too brief; generally your responses should be 2-3 paragraphs to address the topics). The discussion boards generally require a response post to at least one of your classmate's posts. Your initial posts are generally due on Day 5, and your response post is due on Day 7.

-LAB WORK FROM LAB MANUAL: There are approximately 150 points to be earned for completing questions from the lab manual for each chapter. This is a significant part of your grade, and worthwhile exercises to help you understand the material and develop skills in weather and climate interpretation and analysis.

-Current Weather Studies (CWS): There are approximately 150 pts to be earned by completing your current weather studies (CWS) assignments. These assignments are available through the "RealTime Weather Portal" where you can find the reading material (as a PDF); an answer form (where your quiz questions for your CWS assignments are taken from) and an answer form for your Investigation Manual questions (you are assigned the series "A" Investigation Manual questions; you are not assigned the series "B" questions from the manual).

Due Dates:

The above assignments have specifically defined due dates as noted in the Course Schedule later on in this syllabus. It is your responsibility to consult the Course Schedule (if applicable) for all weekly tasks and due dates. The instructor will not assume the responsibility of reminding you that an assignment is due or that a quiz, for example, will be given.

Score/Grade Posting:

All scores will be posted on Canvas. You have 7 days after a score has been posted to dispute an entry. After the 7-day period, the score stands as entered. Do not wait until the end of the semester to check your scores. Grades are not assigned by a "curve", where a certain percent is assigned "A", "B", etc. Instead, you are competing against my expectations, not your classmates, and there is no predetermined percentage of "A", "B", and "C". The exact division between letter grades will not be determined until the final points are totaled, but the grade breaks will not be raised above typical values (e.g., the A-B grade break will be 90% or lower, etc.). No items are weighted—your grade is based solely on total points received.

Dates for Withdrawals:

There is a course withdrawal deadline—check the college calendar to find the course withdrawal deadline for this semester. The course withdrawal deadline is a no-tolerance policy. When the withdrawal period ends, students only have one option – a grade of F for the course.

Incomplete Grade:

A mark of “I” is given only when a student who is otherwise doing acceptable work is unable to complete a course because of an illness or other situation beyond the student’s control. The student is required to arrange for the completion of the course requirements with the instructor. The university does not allow instructors to assign a grade of “I” simply because a student has quit attending classes and/or completing assignments.

Attendance

- A student who fails to attend the first meeting of a class or does not complete the first mandatory activity of an online class will be dropped by the instructor as of the first official meeting of that class (does not apply to special circumstances). Should readmission be desired, the student’s status will be the same as that of any other student who desires to add a class. It is the student’s responsibility to drop or officially withdraw from the class. See General Catalog for details.
- Regular attendance in all classes is expected of all students. A student whose continuous, unexcused absences exceed the number of hours the class is scheduled to meet per week may be dropped. For online courses, students who fail to complete required activities for two consecutive weeks may be considered to have excessive absences and may be dropped.
- Absences attributed to the representation of the college at officially approved events (conferences, contests, and field trips) will be counted as ‘excused’ absences.

Classroom Netiquette

- What is netiquette? Netiquette is internet manners, online etiquette, and digital etiquette all rolled into one word.
- Netiquette rules to remember: (1) identify yourself, (2) include a subject line, (3) avoid sarcasm, (4) respect others’ opinions and privacy, (5) acknowledge and return messages promptly, (6) copy with caution, (7) do not spam or junk mail, (8) be concise, (9) use appropriate language, (10) use appropriate emoticons (emotional icons) to help convey meaning, and (11) use appropriate intensifiers to help convey meaning [do not use ALL CAPS or multiple exclamation marks (!!!!)].

Academic Honesty

- Plagiarism is taking and presenting as one’s own the writings or ideas of others, without citing the source. You should understand the concept of plagiarism and keep it in mind when taking exams and preparing written materials. If you do not understand how to ‘cite a source’ correctly, you must ask for help.
- Cheating is defined as fraud, deceit, or dishonesty in an academic assignment, or using or attempting to use materials, or assisting others in using materials that are prohibited or inappropriate in the context of the academic assignment in question.
- Anyone caught cheating or will receive a zero (0) on the exam or assignment, and the instructor may report the incident to the Campus Disciplinary Officer, who may place related documentation in a file. Repeated acts of cheating may result in an F in the course and/or disciplinary action. Please refer to the General School Catalog for more information on academic dishonesty or other misconduct. Acts of cheating include, but are not limited to, the following: (a) plagiarism; (b) copying or attempting to copy from others during an examination or on an assignment; (c) communicating test information with another person during an examination; (d) allowing others to do an assignment or portion of an assignment; (e) using a commercial term paper service.

Additional Help – Discretionary Section and Language

Help Along The Way: Many students enter this class with a bit of anxiety. Other students may have various disabilities, including test anxiety, which may make traditional classroom environments very difficult. Don’t worry, almost all such students before you have passed this course – many with very high grades! The success of many of these students, though, was in part because they attended class regularly, took advantage of my office hours, or obtained help from their peers. If you are having difficulty understanding the course work, please contact me immediately. Also, the college has learning centers, disability resource centers, and counseling centers to address the various needs of students. (see examples next):

- Learning Labs: There are several ‘labs’ on campus to assist you through the use of computers, tutors, or a combination. Please consult your college map for the Math Lab, Reading & Writing Lab, and Study Skills Center (library). Please speak to the instructor about labs unique to your specific program.
- Library Services: There is more to our library than just books. You have access to tutors in the Study Skills Center, study rooms for small groups, and online access to a wealth of resources.

Disabled Student Programs and Services (DSPS)

Any student with a documented disability who may need educational accommodations should notify the instructor or the Disabled Student Programs and Services (DSP&S) office as soon as possible. The DSP&S office is located in Building 2100, telephone 760-355-6313, if you feel you need to be evaluated for educational accommodations.

Student Counseling and Health Services

Students have counseling and health services available, provided by the pre-paid Student Health Fee. We now also have a fulltime mental health counselor. For information see <http://www.imperial.edu/students/student-health-center/>  (<http://www.imperial.edu/students/student-health-center/>). The IVC Student Health Center is located in the Health Science building in Room 2109, telephone 760-355-6310.

Student Rights and Responsibilities

Students have the right to experience a positive learning environment and due process. For further information regarding student rights and responsibilities, please refer to the IVC General Catalog available online at http://www.imperial.edu/index.php?option=com_docman&task=doc_download&gid=4516&Itemid=762  (http://www.imperial.edu/index.php?option=com_docman&task=doc_download&gid=4516&Itemid=762)

Information Literacy

Imperial Valley College is dedicated to helping students skillfully discover, evaluate, and use information from all sources. Students can access tutorials at <http://www.imperial.edu/courses-and-programs/divisions/arts-and-letters/library-department/info-lit-tutorials/>  (<http://www.imperial.edu/courses-and-programs/divisions/arts-and-letters/library-department/info-lit-tutorials/%20>)

Anticipated Class Schedule / Calendar

Course Schedule for Geol 130: Climate Studies, Spring 2023

*All due dates and distribution of grade points is subject to change according to class needs.

Week of	Topic/Lecture/Test	Readings
Feb 13-19	Chapter 13: Weather Analysis and Forecasting Discussion Post Current Weather Studies (CWS) at RealTime Weather Portal Investigation 13A (lab manual)- Weather Analysis and Forecasting Chapter 13 Quiz	Lesson 1: Chapter 13
Feb 20-26	Chapter 1: Monitoring the Weather Introductory Post Current Weather Studies (CWS) at RealTime Weather Portal	Lesson 2: Chapter 1

	<p>Investigation 1A (lab manual)- Surface Air Pressure Patterns and Winds</p> <p>Chapter 1 Quiz</p>	
Feb 27-Mar 5	<p>Chapter 2: Atmosphere: Origin, Composition and Structure</p> <p>Discussion Post</p> <p>Current Weather Studies (CWS) at RealTime Weather Portal</p> <p>Investigation 2A (lab manual)- Surface Weather Maps and the Atmosphere in the Vertical</p> <p>Chapter 2 Quiz</p>	Lesson 3: Chapter 2
Mar 6-12	<p>Chapter 3: Solar and Terrestrial Radiation</p> <p>Current Weather Studies (CWS) at RealTime Weather Portal</p> <p>Investigation 3A (lab manual)- Solar and Terrestrial Radiation</p> <p>Chapter 3 Quiz</p>	Lesson 4: Chapter 3
Mar 13-19	<p>Chapter 4: Heat, Temperature and Atmospheric Circulation</p> <p>Discussion Post</p> <p>Current Weather Studies (CWS) at RealTime Weather Portal</p> <p>Investigation 4A (lab manual)- Temperature and Atmospheric Circulation</p> <p>Chapter 4 Quiz</p>	Lesson 5: Chapter 4
Mar 20-26	<p>Chapter 5: Air Pressure</p> <p>Current Weather Studies (CWS) at RealTime Weather Portal</p> <p>Investigation 5A (lab manual)- Air Pressure Change</p> <p>Chapter 5 Quiz</p>	Lesson 6: Chapter 5
Mar 27-Apr 2	<p>Chapter 6: Humidity, Saturation and Stability</p> <p>Discussion Post</p> <p>Current Weather Studies (CWS) at RealTime Weather Portal</p> <p>Investigation 6A (lab manual)- Air Pressure, Temperature and Clouds</p> <p>Chapter 6 Quiz</p>	Lesson 7: Chapter 6
Apr 3-9	Test 1 Chapter's 1-6 and 13 (50 pts)	Test 1

Apr 10-16	Spring Break	Spring Break
Apr 17-23	Chapter 7: Clouds, Precipitation and Weather Radar Discussion Post Current Weather Studies (CWS) at RealTime Weather Portal Investigation 7A (lab manual)- Precipitation Patterns Chapter 7 Quiz	Lesson 8: Chapter 7
Apr 24-30	Chapter 8: Wind and Weather Current Weather Studies (CWS) at RealTime Weather Portal Investigation 8A (lab manual)- Wind and Weather Chapter 8 Quiz	Lesson 9: Chapter 8
May 1-7	Chapter 9: Atmosphere's Planetary Circulation Discussion Post Current Weather Studies (CWS) at RealTime Weather Portal Investigation 9A (lab manual)- Atmosphere's Planetary Circulation Chapter 9 Quiz	Lesson 10: Chapter 9
May 8-14	Chapter 10: Weather Systems of Middle Latitudes Current Weather Studies (CWS) at RealTime Weather Portal Investigation 10A (lab manual)- The Extratropical Cyclone Chapter 10 Quiz	Lesson 11: Chapter 10
May 15-21	Chapter 11: Thunderstorms and Tornadoes Discussion Post Current Weather Studies (CWS) at RealTime Weather Portal Investigation 11A (lab manual)- Thunderstorms and Tornadoes Chapter 11 Quiz	Lesson 12: Chapter 11
May 22-28	Chapter 12: Tropical Weather Systems Current Weather Studies (CWS) at RealTime Weather Portal Investigation 12A (lab manual)- Hurricanes Chapter 12 Quiz	Lesson 13: Chapter 12

May 29-June 4	Chapter 15: Climate and Climate Change Discussion Post Current Weather Studies (CWS) at RealTime Weather Portal Investigation 15A (lab manual)- Climate and Climate Data Chapter 15 Quiz	Lesson 14: Chapter 15
June 5-9	Test 2 Chapter's 7-12 and 15	Test 2 (Final's Week)
June 10	Commencement	Commencement

Course Summary:

Date	Details	Due
	 <u>Climate-related video post</u> (https://imperial.instructure.com/courses/22338/assignments/540401)	due by 11:59pm
	 <u>Current Weather Studies Ch 13 (see CWS at Weather Portal)</u> (https://imperial.instructure.com/courses/22338/assignments/540726)	due by 11:59pm
Sun Feb 19, 2023	 <u>Introductory Post</u> (https://imperial.instructure.com/courses/22338/assignments/540400)	due by 11:59pm
	 <u>Investigation 13A-  Weather Analysis and Forecasting  - from Investigations Manual (Study Material) and Weather Portal (Answer Sheet)</u> (https://imperial.instructure.com/courses/22338/assignments/540349)	due by 11:59pm
	 <u>Quiz Chapter 13 (from Weather Studies Textbook)</u> (https://imperial.instructure.com/courses/22338/assignments/540355)	due by 11:59pm

Date	Details	Due
	 <u>Chapter 1 Review (Survey) Questions (prep for Test 1)</u> https://imperial.instructure.com/courses/22338/assignments/540342	due by 11:59pm
	 <u>Chapter 2 Review (Survey) Questions (prep for Test 1)</u> https://imperial.instructure.com/courses/22338/assignments/540391	due by 11:59pm
	 <u>COMET Assignment Ch 2 Atmosphere</u> https://imperial.instructure.com/courses/22338/assignments/540407	due by 11:59pm
	 <u>COMET Assignment Ch 3 Solar/Terrestrial Radiation</u> https://imperial.instructure.com/courses/22338/assignments/540408	due by 11:59pm
	 <u>Critical Thinking Ch 1</u> https://imperial.instructure.com/courses/22338/assignments/540388	due by 11:59pm
	 <u>Critical Thinking Ch 2</u> https://imperial.instructure.com/courses/22338/assignments/540352	due by 11:59pm
Sun Feb 26, 2023	 <u>Critical Thinking Ch 3</u> https://imperial.instructure.com/courses/22338/assignments/540350	due by 11:59pm
	 <u>Current Weather Studies Ch 1 (see CWS at Weather Portal)</u> https://imperial.instructure.com/courses/22338/assignments/540724	due by 11:59pm
	 <u>Discussion Question For Lesson 1 (Ch 13)</u> <p>(please note this post isn't due until the end of next week)</p> https://imperial.instructure.com/courses/22338/assignments/541640	due by 11:59pm
	 <u>Discussion Question for Lesson 2 (Ch 1)</u> https://imperial.instructure.com/courses/22338/assignments/541642	due by 11:59pm
	 <u>Investigation 1A- Surface Air Pressure Patterns and Winds -from Investigations Manual (Study Material) and Weather Portal (Answer Sheet)</u> https://imperial.instructure.com/courses/22338/assignments/540348	due by 11:59pm
	 <u>Quiz Chapter 1 (from Weather Studies Textbook)</u> https://imperial.instructure.com/courses/22338/assignments/540381	due by 11:59pm

Date	Details	Due
	 Chapter 3 Review (Survey) Questions (prep for Test 1) https://imperial.instructure.com/courses/22338/assignments/540395	due by 11:59pm
	 Critical Thinking Ch 4 https://imperial.instructure.com/courses/22338/assignments/540387	due by 11:59pm
	 Current Weather Studies Ch 2 (see CWS at Weather Portal) https://imperial.instructure.com/courses/22338/assignments/541962	due by 11:59pm
	 Discussion Question For Lesson 3 (Ch 2) https://imperial.instructure.com/courses/22338/assignments/540727	due by 11:59pm
Sun Mar 5, 2023	 Investigation 2A-  Surface Weather Maps and the Atmosphere in the Vertical  -from Investigations Manual (Study Material) and Weather Portal (Answer Sheet) https://imperial.instructure.com/courses/22338/assignments/540377	due by 11:59pm
	 Quiz Chapter 2 (from Weather Studies Textbook) https://imperial.instructure.com/courses/22338/assignments/540394	due by 11:59pm
	 Weather Tracking: Natural Disasters Created by Weather Phenomena (Due Dates: Mar 5,12,19,26Apr 2,9,23,30May 7,14,21,28) https://imperial.instructure.com/courses/22338/assignments/540429	due by 11:59pm
	 Chapter 4 Review (Survey) Questions (prep for Test 1) https://imperial.instructure.com/courses/22338/assignments/540358	due by 11:59pm
	 Critical Thinking Ch 5 https://imperial.instructure.com/courses/22338/assignments/540372	due by 11:59pm
	 Current Weather Studies Ch 3 (see CWS at Weather Portal) https://imperial.instructure.com/courses/22338/assignments/541963	due by 11:59pm
Sun Mar 12, 2023	 Discussion Question For Lesson 4 (Ch 3) https://imperial.instructure.com/courses/22338/assignments/541781	due by 11:59pm
	 Investigation 3A- Solar and Terrestrial Radiation- from Investigations Manual (Study Material) and Weather Portal (Answer Sheet) https://imperial.instructure.com/courses/22338/assignments/540353	due by 11:59pm
	 Quiz Chapter 3 https://imperial.instructure.com/courses/22338/assignments/540393	due by 11:59pm
	 Weather Tracking Entries Due https://imperial.instructure.com/courses/22338/assignments/540419	due by 11:59pm

Date	Details	Due
	 <u>Chapter 5 Review (Survey) Questions (prep for Test 1)</u> https://imperial.instructure.com/courses/22338/assignments/540396	due by 11:59pm
	 <u>Current Weather Studies Ch 4 (see CWS at Weather Portal)</u> https://imperial.instructure.com/courses/22338/assignments/541641	due by 11:59pm
	 <u>Discussion Question For Lesson 5 (Ch 4)</u> https://imperial.instructure.com/courses/22338/assignments/541964	due by 11:59pm
Sun Mar 19, 2023	 <u>Investigation 4A- Temperature and Atmospheric Circulation- from Investigations Manual (Study Material) and Weather Portal (Answer Sheet)</u> https://imperial.instructure.com/courses/22338/assignments/540392	due by 11:59pm
	 <u>Quiz Chapter 4</u> https://imperial.instructure.com/courses/22338/assignments/540373	due by 11:59pm
	 <u>Weather Tracking Entries Due</u> https://imperial.instructure.com/courses/22338/assignments/540420	due by 11:59pm
	 <u>Critical Thinking Ch 6</u> https://imperial.instructure.com/courses/22338/assignments/540386	due by 11:59pm
	 <u>Current Weather Studies Ch 5 (see CWS at Weather Portal)</u> https://imperial.instructure.com/courses/22338/assignments/541965	due by 11:59pm
	 <u>Discussion Question For Lesson 6 (Ch 5)</u> https://imperial.instructure.com/courses/22338/assignments/541966	due by 11:59pm
Sun Mar 26, 2023	 <u>Investigation 5A- Air Pressure Change- from Investigations Manual (Study Material) and Weather Portal (Answer Sheet)</u> https://imperial.instructure.com/courses/22338/assignments/540361	due by 11:59pm
	 <u>Quiz Chapter 5</u> https://imperial.instructure.com/courses/22338/assignments/540344	due by 11:59pm
	 <u>REQUIRED and EXTRA CREDIT (optional). COMET Assignments Chapter 6 Humidity, Saturation Stability</u> https://imperial.instructure.com/courses/22338/assignments/540418	due by 11:59pm
	 <u>Weather Tracking Entries Due</u> https://imperial.instructure.com/courses/22338/assignments/540421	due by 11:59pm

Date	Details	Due
	 Chapter 6 Review (Survey) Questions (prep for Test 2) https://imperial.instructure.com/courses/22338/assignments/540390	due by 11:59pm
	 Chapter 7 Review (Survey) Questions (prep for Test 2) https://imperial.instructure.com/courses/22338/assignments/540378	due by 11:59pm
	 Critical Thinking Ch 8 https://imperial.instructure.com/courses/22338/assignments/540397	due by 11:59pm
	 Current Weather Studies Ch 6 (see CWS at Weather Portal) https://imperial.instructure.com/courses/22338/assignments/541967	due by 11:59pm
Sun Apr 2, 2023	 Discussion Question For Lesson 7 (Ch 6) https://imperial.instructure.com/courses/22338/assignments/541968	due by 11:59pm
	 Investigation 6A- Air Pressure, Temperature and Clouds- from Investigations Manual (Study Material) and Weather Portal (Answer Sheet) https://imperial.instructure.com/courses/22338/assignments/540357	due by 11:59pm
	 Quiz Chapter 6 https://imperial.instructure.com/courses/22338/assignments/540384	due by 11:59pm
	 Weather Tracking Entries Due https://imperial.instructure.com/courses/22338/assignments/540422	due by 11:59pm
	 Weather Tracking Entries Due https://imperial.instructure.com/courses/22338/assignments/540423	due by 11:59pm
Tue Apr 4, 2023	 Critical Thinking Ch 7 https://imperial.instructure.com/courses/22338/assignments/540382	due by 11:59pm
	 Chapter 8 Review (Survey) Questions (prep for Test 2) https://imperial.instructure.com/courses/22338/assignments/540376	due by 11:59pm
Sun Apr 9, 2023	 Test 1 Ch 1-6, 13 Multiple Choice https://imperial.instructure.com/courses/22338/assignments/540380	due by 11:59pm
	 Weather Tracking Entries Due https://imperial.instructure.com/courses/22338/assignments/540424	due by 11:59pm
Mon Apr 17, 2023	 Critical Thinking Ch 9 https://imperial.instructure.com/courses/22338/assignments/540369	due by 11:59pm
	 COMET Assignment Ch 8 Wind and Weather https://imperial.instructure.com/courses/22338/assignments/540412	due by 11:59pm
Wed Apr 19, 2023	 COMET Assignment Ch 9 Atmos Planetary Circ https://imperial.instructure.com/courses/22338/assignments/540413	due by 11:59pm

Date	Details	Due
	 <u>Chapter 9 Review (Survey) Questions (prep for Test 2)</u> https://imperial.instructure.com/courses/22338/assignments/540362	due by 11:59pm
	 <u>Critical Thinking Ch 10</u> https://imperial.instructure.com/courses/22338/assignments/540360	due by 11:59pm
	 <u>Current Weather Studies Ch 7 (see CWS at Weather Portal)</u> https://imperial.instructure.com/courses/22338/assignments/542238	due by 11:59pm
Sun Apr 23, 2023	 <u>Discussion Question For Lesson 8 (Ch 7)</u> https://imperial.instructure.com/courses/22338/assignments/542237	due by 11:59pm
	 <u>Investigation 7A- Precipitation Patterns- from Investigations Manual (Study Material) and Weather Portal (Answer Sheet)</u> https://imperial.instructure.com/courses/22338/assignments/540368	due by 11:59pm
	 <u>Quiz Chapter 7</u> https://imperial.instructure.com/courses/22338/assignments/540351	due by 11:59pm
	 <u>Weather Tracking Entries Due</u> https://imperial.instructure.com/courses/22338/assignments/540425	due by 11:59pm
	 <u>COMET Assignment Ch 11 T-storms and Tornadoes</u> https://imperial.instructure.com/courses/22338/assignments/540404	due by 11:59pm
	 <u>Critical Thinking Ch 11</u> https://imperial.instructure.com/courses/22338/assignments/540341	due by 11:59pm
	 <u>Current Weather Studies Ch 8 (see CWS at Weather Portal)</u> https://imperial.instructure.com/courses/22338/assignments/542240	due by 11:59pm
	 <u>Discussion Question For Lesson 9 (Ch 8)</u> https://imperial.instructure.com/courses/22338/assignments/542239	due by 11:59pm
Sun Apr 30, 2023	 <u>Investigation 8A- Wind and Weather- from Investigations Manual (Study Material) and Weather Portal (Answer Sheet)</u> https://imperial.instructure.com/courses/22338/assignments/540389	due by 11:59pm
	 <u>Quiz Chapter 8</u> https://imperial.instructure.com/courses/22338/assignments/540343	due by 11:59pm
	 <u>Test 2 Chapter's 6-9 Multiple Choice</u> https://imperial.instructure.com/courses/22338/assignments/540356	due by 11:59pm
	 <u>Weather Tracking Entries Due</u> https://imperial.instructure.com/courses/22338/assignments/540426	due by 11:59pm

Date	Details	Due
Sun May 7, 2023	 Chapter 10 Review (Survey) Questions (prep for Test 3) https://imperial.instructure.com/courses/22338/assignments/540367	due by 11:59pm
	 Critical Thinking Ch 12 https://imperial.instructure.com/courses/22338/assignments/540371	due by 11:59pm
	 Current Weather Studies Ch 9 (see CWS at Weather Portal) https://imperial.instructure.com/courses/22338/assignments/542244	due by 11:59pm
	 Discussion Question For Lesson 10 (Ch 9) https://imperial.instructure.com/courses/22338/assignments/542243	due by 11:59pm
	 Investigation 9A- Atmosphere's Planetary Circulation- from Investigations Manual (Study Material) and Weather Portal (Answer Sheet) https://imperial.instructure.com/courses/22338/assignments/540345	due by 11:59pm
	 Quiz Chapter 9 https://imperial.instructure.com/courses/22338/assignments/540374	due by 11:59pm
Tue May 9, 2023	 Weather Tracking Entries Due https://imperial.instructure.com/courses/22338/assignments/540427	due by 11:59pm
	 COMET Assignment Ch 12 Tropical Weather https://imperial.instructure.com/courses/22338/assignments/540405	due by 11:59pm
Sun May 14, 2023	 Chapter 11 Review (Survey) Questions (prep for Test 3) https://imperial.instructure.com/courses/22338/assignments/540363	due by 11:59pm
	 Current Weather Studies Ch 10 (see CWS at Weather Portal) https://imperial.instructure.com/courses/22338/assignments/542246	due by 11:59pm
	 Discussion Question For Lesson 11 (Ch 10) https://imperial.instructure.com/courses/22338/assignments/542245	due by 11:59pm
	 Geology of National Parks- Optional Extra Credit up to 10 pts https://imperial.instructure.com/courses/22338/assignments/540416	due by 11:59pm
	 Investigation 10A- The Extratropical Cyclone- from Investigations Manual (Study Material) and Weather Portal (Answer Sheet) https://imperial.instructure.com/courses/22338/assignments/540365	due by 11:59pm
	 Quiz Chapter 10 https://imperial.instructure.com/courses/22338/assignments/540366	due by 11:59pm
	 Weather Tracking Entries Due https://imperial.instructure.com/courses/22338/assignments/540428	due by 11:59pm

Date	Details	Due
	 Chapter 12 Review (Survey) Questions (prep for Test 3) https://imperial.instructure.com/courses/22338/assignments/540347	due by 11:59pm
	 Chapter 15 Review (Survey) Questions (prep for Test 3) https://imperial.instructure.com/courses/22338/assignments/540359	due by 11:59pm
	 COMET Assignments Climate and Climate Change Ch 15 https://imperial.instructure.com/courses/22338/assignments/540414	due by 11:59pm
	 Critical Thinking Ch 15 https://imperial.instructure.com/courses/22338/assignments/540375	due by 11:59pm
Sun May 21, 2023	 Current Weather Studies Ch 11 (see CWS at Weather Portal) https://imperial.instructure.com/courses/22338/assignments/542248	due by 11:59pm
	 Discussion Question For Lesson 12 (Ch 11) https://imperial.instructure.com/courses/22338/assignments/542247	due by 11:59pm
	 Final Report: Part's 2 and 3 of Disaster Tracking Assignment Due by May 29 https://imperial.instructure.com/courses/22338/assignments/540415	due by 11:59pm
	 Investigation 11A- Thunderstorms and Tornadoes- from Investigations Manual (Study Material) and Weather Portal (Answer Sheet) https://imperial.instructure.com/courses/22338/assignments/540339	due by 11:59pm
	 Quiz Chapter 11 https://imperial.instructure.com/courses/22338/assignments/540379	due by 11:59pm
	 Current Weather Studies Ch 12 (see CWS at Weather Portal) https://imperial.instructure.com/courses/22338/assignments/542250	due by 11:59pm
	 Discussion Question For Lesson 13 (Ch 12) https://imperial.instructure.com/courses/22338/assignments/542249	due by 11:59pm
Sun May 28, 2023	 Investigation 12A- Hurricanes- from Investigations Manual (Study Material) and Weather Portal (Answer Sheet) https://imperial.instructure.com/courses/22338/assignments/540340	due by 11:59pm
	 Quiz Chapter 12 https://imperial.instructure.com/courses/22338/assignments/540346	due by 11:59pm

Date	Details	Due
	 Current Weather Studies Ch 15 (see CWS at Weather Portal) https://imperial.instructure.com/courses/22338/assignments/540725	due by 11:59pm
	 Discussion Question For Lesson 14 (Ch 15) https://imperial.instructure.com/courses/22338/assignments/542251	due by 11:59pm
Sun Jun 4, 2023	 Investigation 15A- Climate and Climate Data- from Investigations Manual (Study Material) and Weather Portal (Answer Sheet) https://imperial.instructure.com/courses/22338/assignments/540398	due by 11:59pm
	 Quiz Chapter 15 https://imperial.instructure.com/courses/22338/assignments/540385	due by 11:59pm
Wed Jun 7, 2023	 NASA Climate Time Machine and "Chasing Ice" Video (extended time for this assignment) https://imperial.instructure.com/courses/22338/assignments/540417	due by 11:59pm
	 Chapter 1 Review Questions https://imperial.instructure.com/courses/22338/assignments/540402	
	 COMET Assignment Ch 10 Mid Lat Weather Systems https://imperial.instructure.com/courses/22338/assignments/540403	
	 COMET Assignment Ch 13 Weather Analysis Forecasting https://imperial.instructure.com/courses/22338/assignments/540406	
	 COMET Assignment Ch 4 Heat/Temp/AtmCirc https://imperial.instructure.com/courses/22338/assignments/540409	
	 COMET Assignment Ch 5 Air Pressure https://imperial.instructure.com/courses/22338/assignments/540410	
	 COMET Assignment Ch 7 Clouds Precipitation Radar https://imperial.instructure.com/courses/22338/assignments/540411	
	 Critical Thinking Ch 13 https://imperial.instructure.com/courses/22338/assignments/540383	
	 Critical Thinking Ch 14 https://imperial.instructure.com/courses/22338/assignments/540370	
	 Investigation 14A- Atmospheric Phenomena https://imperial.instructure.com/courses/22338/assignments/540364	
	 Quiz Chapter 14 https://imperial.instructure.com/courses/22338/assignments/540354	
	 Weather Disaster Journal (first post not required until Lesson 3) https://imperial.instructure.com/courses/22338/assignments/540399	