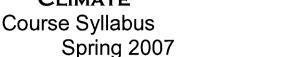


METR 1014: Introduction to Weather &

CLIMATE





Class time: TR 1:30 - 2:45pm, Room A235 SEC

Instructor: Dr. Susan Postawko, Associate Professor of Meteorology (spostawk@ou.edu)

Office: National Weather Center (NWC) room 5329

Phone: 325-1142

Office hours: 12:00-1:00 Tues/Thurs in room 430 SEC, or by appointment Course web page: Accessible via https://learn.ou.edu (log on using your 4+4)

Co-requisite: Lab section

Texts: Essentials of Meteorology: An Invitation to the Atmosphere, by C. Donald Ahrens,

Explorations in Meteorology: A Lab Manual

Course Grade Determination:

2 in-class exams @ 20% each (no drops)	
Assignments/pop quizzes	10%
Comprehensive Final Exam	25%
Lab Section Grade	25%
Lab exercises:	
Lab quizzes:	10%

Note: lab grade will be made up of scores from lab exercises PLUS scores from 2 to 3 guizzes over lab material. Lab guizzes will be given during LECTURE class at times to be determined (they will be announced at least 1 week prior to the quiz)

About this course:

Meteorology 1014 is a survey course of weather and climate for non-meteorology majors. In this class we will cover a wide variety of topics to help you gain an understanding of the science behind daily weather, climate and climate change, as well as current-events topics such as hurricanes and droughts.

It is NOT the aim of the course to make scientists out of all of you; but to help you gain a basic understanding of the atmosphere, and to develop critical thinking skills so that you can read and intelligently discuss newspaper and magazine articles related to weather and climate.

You are expected to come to class prepared to discuss the day's topic (from reading assignments from the required text). Although class attendance is not formally a part of your grade for this course, you will get much more out of the course, and have a much easier time with the material if you regularly attend class. In addition, there will be material presented in class that will not be in the textbooks. Although I will make every effort to post material on the course web site, your comprehension of the material will be much greater if you are actually in class when it is presented. When in class, please be considerate of your classmates by turning off cell phones and NOT engaging in lengthy discussions with your neighbors. In a large class, this is very distracting to everyone around you (not to mention rude).

If you are having problems with the course material, I strongly urge you to come and talk to me sooner rather than later. I can't do anything if you wait until the last week of classes to come and talk to me about problems you've been having all semester. **There is no extra credit work for this class!**

Remember that education is a two-way street – I can only present the material and facilitate discussion, but you must bring to class an intellectual curiosity and a willingness to learn. In order to get the most out of any class, you MUST take an active role in your own education!

About the labs:

The labs associated with this class are designed to both enhance your understanding of lecture material, as well as to introduce some material that we simply don't have time to cover in lecture. As such, the labs don't always coincide exactly with what is going on in lecture.

Although there are several lab sections associated with this class, PLEASE don't play "musical lab periods". That is, unless you have permission in advance from the Teaching Assistant(s), please only attend the lab section that you are enrolled in. The lab rooms have very limited seating capacity, and at this time every lab section is full.

The lab section will make up 25% of your final grade for this class. Of this, 15% will come from your lab exercises, and 10% will come from quizzes over lab material. Although the Teaching Assistants will make up the questions on these lab quizzes, the quizzes will be administered during the lecture time. There are no make-ups of these quizzes, except in dire circumstances (as defined by me). You will typically have about 1 week's notice prior to a lab quiz. Notice of

Because of the start of the term on a Tuesday, and the fact that lectures are Tues/Thurs, the "lab week" will run Tuesday through Monday. That is, the Tuesday lab sections will be the first to get a new lab, and Monday lab sections will get the lab on the following week.

Your Teaching Assistant will have more information for you when you attend your first lab.

PLEASE NOTE: Homework assignments and lab quiz announcements will ONLY be made IN CLASS. That is, they will NOT be posted on the Desire2Learn website. If you miss class, you miss the assignment.

IMPORTANT POLICIES:

Reasonable Accommodation: The University of Oklahoma is committed to providing reasonable accommodation for all students with disabilities. Students with disabilities who require accommodation in this course are requested to speak with me as early in the semester as possible. Students with disabilities **must** be registered with the Office of Disability Services prior to receiving accommodations in this course. The Office of Disability Services is located in Goddard Health Center, Suite 166, phone 325-3852 or TDD only 325-4173.

Academic Misconduct: All provisions of the Norman Campus Academic Misconduct Code shall apply in cases of academic dishonesty. Any violation of the Academic Misconduct Code will result in your removal from this course, and a grade of F will be recorded for the course. Academic misconduct is defined as "any act that improperly affects the evaluation of a student's academic performance or achievement." At the University of Oklahoma, academic integrity is expected from each student. Misconduct such as plagiarism, fabrication, and fraud, as well as attempting to commit such acts or assisting others in doing so, will not be

tolerated. Students are responsible for knowing the OU Academic Conduct Code, which can be found at http://www.ou.edu/studentcode and http://www.ou.edu/studentcode and http://www.ou.edu/provost/integrity



Tentative schedule (subject to change)

Date	Topic	Text Chapter
WEEK 1		
Jan. 16	Intro to class	
Jan. 18	Winter weather	
WEEK 2		
Jan. 23	Origin of Earth/origin of atmosphere	Chapter 1
Jan. 25	Structure of Earth's atmosphere	Chapter 1
WEEK 3	Outdotale of Earth's authorphore	
Jan. 30	Energy and energy balance	Chapter 2
Feb. 1	Temperature	Chapter 3
WEEK 4	Temperature	Onapior o
Feb. 6	Global climate	Chapter 15
	Global climate	Ch. 13, p. 342-350
Feb. 8	Giobai ciiriate	Οπ. 10, β. 042 000
WEEK 5	ENCO	Chapter 7, p 189-197
Feb. 13	ENSO Climata change	Chapter 14
Feb. 15	Climate change	Oriapiei 14
WEEK 6	Oliverte change continued	Chapter 14
Feb. 20	Climate change continued	Chapter 14
Feb. 22	EXAM 1	
WEEK 7	Ti stance and the eletions	Chapter 4
Feb. 27	The water cycle/moisture	Chapter 4
March 1	Clouds and fog	Chapter 4
WEEK 8		01 - 14-7-5
March 6	Stability	Chapter 5
March 8	Precipitation	Chapter 5
WEEK 9		
March 13	Atmospheric forces	Chapter 6
March 15	Winds	Chapter 7
WEEK 10	NO CLASSES	
March 17-25	SPRING BREAK	
WEEK 11		
March 27	Global circulation	Chapter 7
March 29	EXAM 2	
WEEK 12		
April 3	Air masses & fronts	Chapter 8
April 5	Mid-latitude storms	Chapter 8
WEEK 13		
April 10	Thunderstorms	Chapter 10
April 12	Tornadoes	Chapter 10
WEEK 14		
April 17	Hurricanes	Chapter 11
April 19	Significant storms in the U.S.	
WEEK 15		
April 24	Ozone in the troposphere	Chapter 12
April 26	Ozone in the stratosphere	
WEEK 16	2-21.2 m. m.s 2m.mas 1p. 121.2	
May 1	Why the sky is blue/rainbows	Chapter 15
May 3	Tying up loose ends	3
IVIAY O	Friday, May 11 th , 1:30 – 3:30 pm	Comprehensive
CINIAL CYARE	Room A235 SEC	Comprehensive
FINAL EXAM	KOOM AZ33 SEC	