

# METR 1014: Introduction to Weather & Climate

## Course Syllabus – Spring 2007

**Class time:** MW 6:00 – 7:15 pm, Room A235 SEC

**Instructor:** Danielle Corrao, Graduate student of Meteorology (mesogirl@ou.edu)

**Office:** 5409 NWC

**Office hours:** MW 5:30 – 5:50 pm, Room A235 SEC. Other hours can be scheduled by appointment.

**Course web page:** <https://learn.ou.edu> (log on using your 4x4)

**Co-requisite:** Lab section

**Texts:** *Essentials of Meteorology (4<sup>th</sup> Edition)* by C. Donald Ahrens,  
*Explorations in Meteorology: A Lab Manual*

### Course Grade Determination:

2 in-class exams @ 20% each (no drops)	40%
Assignments/pop quizzes	10%
Comprehensive Final Exam	25%
Lab Section Grade	25%
Lab exercises:	15%
Lab quizzes:	10%

**Note:** lab grade will be made up of scores from lab exercises PLUS scores from 2 to 3 quizzes over lab material. Lab quizzes 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.

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.

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!**

## 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.

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

## 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/provost/integrity>



**Tentative schedule (subject to change)**

<b>Date</b>	<b>Topic</b>	<b>Text Chapter</b>
<b>Week 1: Jan. 15</b> <i>No class on Monday, Jan. 15</i>	Intro to class/course expectations Origin of atmosphere/Structure	Chapter 1
<b>Week 2: Jan. 22</b>	Heat and Radiation  The Seasons	Chapter 2  Chapter 2
<b>Week 3: Jan. 29</b>	Air Temperature  Humidity	Chapter 3  Chapter 4
<b>Week 4: Feb. 5</b>	Dew, frost, fog, clouds  Stability, Cloud Development	Chapter 4  Chapter 5
<b>Week 5: Feb. 12</b>	Precipitation  Air Pressure, Coriolis Force	Chapter 5  Chapter 6
<b>Week 6: Feb. 19</b>	Vertical Motions  <b>EXAM 1 – Wednesday, Feb. 21</b>	Chapter 6  <b>Chapters 1-5</b>
<b>Week 7: Feb. 26</b>	Local Winds  Global Winds, El Nino	Chapter 7  Chapter 7
<b>Week 8: March 5</b>	El Nino  Air Masses, Fronts	Chapter 7  Chapter 8
<b>Week 9: March 12</b>	Mid-Latitude Cyclones  Forecasting	Chapter 8  Chapter 9
<b>Week 10: March 19</b> <b>SPRING BREAK!</b>	<b>NO CLASS!</b>	
<b>Week 11: March 26</b>	Thunderstorms  Tornadoes	Chapter 10  Chapter 10
<b>Week 12: April 2</b>	Hurricanes  <b>EXAM 2 – Wednesday, April 4</b>	Chapter 11  <b>Chpts 6-10</b>
<b>Week 13: April 9</b>	Pollution  Global Climate	Chapter 12  Chapter 13
<b>Week 14: April 16</b>	Climate Change  Global Warming	Chapter 14  Chapter 14
<b>Week 15: April 23</b>	Atmospheric Optics  Loose Ends	Chapter 15  Chapter 15
<b>Week 16: April 30</b>	Monday – Review Session  Wednesday – <b>FINAL EXAM</b>	  <b>Comprehensive Chpts 1-15</b>
<b>Week 17: May 7</b> <b>No Class</b>	<b>Good luck on your other finals!</b>	