

# *Course Syllabus*

## METR 2013: Introduction to Meteorology I

TTh, 8:30-9:45am, NWC 5600  
Spring 2008

Instructor: Prof. Robert Palmer (rpalmer@ou.edu)  
 Office & Hours: NWC 4614, 325-6319, 10:00-12:00pm MW or anytime my door is open  
 Class Homepage: Administered through Desire2Learn (<https://learn.ou.edu/>)  
 Prerequisites: C or better in MATH 1823  
 Corequisites: MATH 2423, PHYS 2514, CS 1313  
 Texts: *Meteorology for Scientists and Engineers, 2nd Ed*, R. Stull, Brooks/Cole, 2000  
*Meteorology Today, 8th Ed*, C. D. Ahrens, Brooks/Cole, 2007

### Course Content

#### **The Earth and Its Atmosphere**

*Ahrens* Chapter 1    *Stull* Chapter 1

#### **Warming the Earth and the Atmosphere & Temperature Variations: Overview**

*Ahrens* Chapter 2    *Ahrens* Chapter 3

#### **Warming the Earth and the Atmosphere & Temperature Variations: Theory**

*Stull* Chapter 2    *Stull* Chapter 3

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EXAM 1

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#### **Atmospheric Moisture**

*Ahrens* Chapter 4    *Stull* Chapter 5

#### **Stability and Cloud Development**

*Ahrens* Chapter 6    *Stull* Chapter 6

#### **Condensation: Dew, Fog, and Clouds**

*Ahrens* Chapter 5

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EXAM 2

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#### **Precipitation**

*Ahrens* Chapter 7    *Stull* Chapter 8

#### **Radar for Meteorological Studies**

*Palmer Notes*

#### **Light, Color, and Atmospheric Optics (time permitting)**

*Ahrens* Chapter 19    *Stull* Chapter 19

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FINAL EXAM

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### Grading

|                                 |       |
|---------------------------------|-------|
| Homeworks                       | 20%   |
| Examinations (2)                | 2×25% |
| Comprehensive Final Examination | 30%   |

**Course Information**

- Lectures, homework, and examinations will emphasize quantitative problem solving. Laboratories (METR 2011) will be coordinated with the lectures and will help you to develop skills in the use of information technology. The Laboratory Assistant will handle all aspects of the laboratory administration.
- Academic Honesty: Homework assignments are important for your understanding of the material. Occasional help from a classmate is fine but be sure that you actually understand the material. It will help tremendously for you to come visit me in my office hours. You will be pleasantly surprised that I am not as mean as I look. Realize that simply copying a homework assignment from any source is considered cheating and will definitely not help your understanding. If caught, such activity could result in a failing grade in the course and possible disciplinary action. You are responsible for knowing the University of Oklahoma Student Code which can be obtained at <http://www.ou.edu/studentcode/>. Each assignment for this class must be accompanied by the following signed statement:

## STATEMENT OF ACADEMIC INTEGRITY

*On my honor I affirm that I have neither given nor received inappropriate aid in the completion of this exercise (homework, quiz, examination, laboratory report, etc.).*

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

- Assignments: No late assignments will be accepted.
- Pre-Finals Week: Note that a final homework or laboratory assignment may be due during Pre-Finals Week.
- Examinations: If you cannot be present for an examination, it is YOUR responsibility to make other arrangements before the examination. Otherwise, the missed test cannot be retaken.
- Class participation is important. It is easier to ask a question during class rather than trying to learn the material on your own.
- Reasonable Accommodation Policy: The University of Oklahoma is committed to providing reasonable accommodation for all students with disabilities. Those having such a need are requested to speak with Prof. Palmer as early in the semester as possible. Students with disabilities also must be registered with the Office of Disability Services (ODS) prior to receiving accommodations in this course. You may contact the ODS at Goddard Health Center, Suite 166, phone 405-325-3852 or TTD only at 405-325-4173.