

Syllabus— Metr 2013 Fall 2009
TR 11:30-12:45 pm in NWC 1350
Dr. Michael Biggerstaff; email: drdoppler@ou.edu
office: NWC 5417; phone: 325-3881
office hours: by appointment or whenever the door is open

TA: Erica Griffin NWC 5110
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NWC 5340 office hours: TR 10:30-11:30

Prerequisite: Mathematics 1823 (C or better); corequisite: 2011, Computer Science 1313 or 1323, Mathematics 2423, Physics 2514 or 1205.

Course Objectives: Introduction to physical meteorology including the composition and vertical structure of the atmosphere, temperature, heat transfer, solar and terrestrial radiation, radiative balance, seasonal and daily temperatures variations, atmospheric moisture, heat and moisture indices, cloud formation and cloud types, atmospheric stability, cloud microphysics, and precipitation systems. The topics will be covered as time permits.

Required Texts for the Lectures: **Meteorology Today: An introduction to weather, climate, and the environment.** 8th edition; C. Donald Ahrens.

Meteorology for Scientists and Engineers. 2nd edition; Roland B. Stull.

Grades will be determined by the following formula:

4 mid-terms	20% each	=	60% (lowest score will be dropped)
Homework		=	15 %
<u>Final exam (required)</u>		=	<u>25% (comprehensive)</u>
			100%

Approximately 90 % or better	= A	FIRST EXAM – 15 September.
Approximately 80 to 89 %	= B	SECOND EXAM — 6 October.
Approximately 70 to 79 %	= C	THIRD EXAM— 29 October.
Approximately 60 to 69 %	= D	FOURTH EXAM— 19 November.
Below 60 %	= F	<u>Excused Make-Ups— 24 November</u>
		FINAL EXAM — 16 December 10:30am -12:30 pm same room

NOTE: All materials provided you in this class are protected by copyright.

Note: The instructor will have to travel several times during the semester for professional activities. Lectures will be provided by either the TA or a guest lecturer on the days the instructor is unavailable.

Legal Requirements:

1) The University of Oklahoma is committed to providing reasonable accommodation for all students with disabilities. Students with disabilities who require accommodations in this course are required to speak with the professor 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 405/325-3852 or TDD only 405/325-4173.

2) Academic integrity policy website information: There have been several changes to the Academic Misconduct Code. Details can be found at the following website: www.studentconduct.ou.edu.

In addition, persons found, or suspected of, having violated university academic conduct will be punished to the maximum extent allowable. The instructor will do his best to dissuade potential employers from hiring a person found guilty of academic misconduct.