

**METR 2023-HONORS SECTION**  
**Introduction to Meteorology II**  
**Spring 2010**

This course is a qualitative and quantitative introduction to winds on all scales, mid latitude synoptic storms (extratropical cyclone model), severe weather (severe weather scenarios), and forecasting. In addition we will study air pollution, tropical meteorology, climate, and climate change on regional and global scales. The difficulty level of the material is designed for prepared, sophomore students majoring in meteorology that are in the Honors Program at OU.

**General Information**

Instructor: Dr. Jerry M. Straka  
Office Room: NWC 5331  
Office Phone: 325-5503  
E-Mail: [jstraka@ou.edu](mailto:jstraka@ou.edu) or [jmstraka@cox.net](mailto:jmstraka@cox.net)

Class Room: NWC 5820  
Class time: T,Th 11:30AM-12:45PM  
Office hours: T from 1PM-3PM  
Additional office hours: By appointment with 24 hr e-mail notice.

**Grading**

Homework:	10%
Test 1:	20%
Test 2:	20%
Test 3:	20%
Comprehensive final:	30%
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100%	

<b>Scores</b>	<b>Grades</b>
90-100	A
80-89	B
70-79	C
60-69	D
<59	F

**Books:**

Mandatory: Atmospheric Science (An Introductory Survey) by Wallace and Hobbs (2nd edition)  
Mandatory: Meteorology Today (8<sup>th</sup> Ed.) by Ahrens  
Mandatory: Meteorology for Scientists and Engineers (2<sup>nd</sup> Ed.) by Stull

**Student Responsibilities:**

“Students are responsible for the content of courses in which they are enrolled. Specific policy concerning attendance requirements and announced and unannounced examinations is the responsibility of the individual instructor. Students have a responsibility to inform faculty prior to absences whenever possible. Faculty should make every effort to find a reasonable accommodation for students who miss class as a result of participation in Provost-approved University-sponsored activities or legally required activities such as emergency military service. Students missing class on account of jury duty must receive such an accommodation.” From Faculty Handbook 2009-10

**Homework Policy:**

Homework is due on the day assigned. Homework is to be original and done alone, but you are free to discuss problems with each other. Homework and Tests will be returned in less than in two weeks.

**Accommodations:**

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 requested 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 fax only 405/325-4173.

**Academic Misconduct:**

All students are expected to be familiar with and abide by the OU Academic Misconduct Code. Information on this code and other student policies is located at <http://studentconduct.ou.edu>

**Questions about the course:**

If you ever have questions about the course or suggestions please notify me during office hours.

## Tentative Weekly Planner

Read Topics in Mandatory books for each week.

Week 1	01/19-01/21	Introduction and Thermodynamics Review
Week 2	01/26-01/28	Thermodynamics Review. Air Pressure, Forces, and Wind
Week 3	02/02-02/04	Air Pressure, Forces, and Wind
Week 4	02/09-02/11	Air Pressure, Forces, and Wind
Week 5	02/16-02/18	Tuesday Review; Thursday exam
Week 6	02/23-02/25	Boundary Layer, Small-Scale and Local Systems
Week 7	03/02-03/04	Air Masses and Fronts, Mid Latitude Cyclones
Week 8	03/09-03/11	Mid Latitude Cyclones, Global Wind Systems
Week 9	03/13-03/21	Spring Break
Week 10	03/23-03/25	Tuesday Review; Thursday exam
Week 11	03/30-04/01	Thunderstorms
Week 12	04/06-04/08	Tornadoes, hail, lightning, winds
Week 13	04/13-04/15	Hurricanes
Week 14	04/20-04/22	Tropical meteorology, Global Climate, Climate Change
Week 15	04/27-04/29	Tuesday Review; Thursday exam
Week 16	05/04-05/06	Weather forecasting, Final exam review
Week 17		Comprehensive Final Exam (Thursday 5/13/2010; 10:30AM; Rm 5930)