

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

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: MWF 10:00AM-10:50AM  
Office hours: M from 11AM-12PM  
Additional office hours: By appointment with 24 hr e-mail notice.

<b>Grading</b>	<b>Lowest of 3 regular test scores is dropped</b>
Homework:	25%
Test 1:	25%
Test 2:	25%
Test 3:	25%
Comprehensive final:	25%
-----	
100%	

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

**Books:**

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

**Homework Policy:**

Homework is due on the day assigned. For each day your assignment is late 20 points are dropped. Homework is to be done alone, but you are free to discuss problems with each other.

**Accommodations:**

Any student in this course who has a disability that prevents them from fully participating and demonstrating their abilities should contact me personally, as soon as practically possible, so we can discuss accommodations necessary to ensure full participation and facilitate educational opportunities. You must be prepared to bring documentation from the office of disability services (325-3852).

**Academic Misconduct and Cheating:**

All cases will follow the university guidelines on academic misconduct on the university web pages:

<http://www.ou.edu/provost/pronew/content/integritymenu.html>

**Questions about the course:**

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

## Tentative Weekly Planner

Week 1	01/21-01/23	Introduction and Review
Week 2	01/26-01/30	The Atmosphere in Motion, Air Pressure, Forces, and Wind
Week 3	02/02-02/06	The Atmosphere in Motion, Air Pressure, Forces, and Wind
Week 4	02/09-02/13	Boundary Layer, Small-Scale and Local Systems
Week 5	02/16-02/20	Monday review; Wednesday exam; Friday review exam
Week 6	02/23-02/27	Air Masses and Fronts
Week 7	03/02-03/06	Mid Latitude Cyclones
Week 8	03/09-03/13	Global Wind Systems
Week 9	03/16-03/20	Spring Break (March 14-22)
Week 10	03/23-03/27	Monday review; Wednesday exam; Friday review exam
Week 11	03/30-04/03	Weather forecasting
Week 12	04/06-04/10	Thunderstorms
Week 13	04/13-04/17	Tornadoes, hail, lightning, winds
Week 14	04/20-04/24	Tropical meteorology and hurricanes
Week 15	04/28-04/30	Monday review; Wednesday exam; Friday review exam
Week 16	05/04-05/08	Global Climate, Climate Change
Week 17	05/11-05/15	Comprehensive Final Exam (Fri 5/15/2009; 8AM-10AM)