

METR 4433, Mesoscale Meteorology

Spring 2011

Instructor	Dr. Kelvin K. Droegemeier Office: Three Partners Place, Room 190 (325-3806) Office Hours: Tues & Thurs, 4:00 – 4:30 pm; Other times by appointment Use of email is strongly encouraged (kkd@ou.edu)
Room/Time	Room 5600, National Weather Center, Tues and Thurs, 2:30-3:45 pm
Class Web Site	http://kkd.ou.edu/METR4433_Spring_2011/METR4433.htm
Grader	Mr. Nicholas Engerer (engerer@ou.edu) Office: National Weather Center, Room 5345 Office Hours: Tues and Thurs, 1:00 – 2:30 pm
Required Text	Markowski, P. and Y. Richardson: <i>Mesoscale Meteorology in Midlatitudes</i> . Wiley-Blackwell, 430pp.
Supplemental	Holton, J.R., 1992: <i>An Introduction to Dynamic Meteorology</i> , 4 th Edition, Academic Press, 535pp.
Prerequisites	METR 4133 (Dynamics III) and METR 4424 (Synoptic Laboratory) or their equivalents. IF YOU HAVE NOT RECEIVED A GRADE OF “C” OR BETTER IN THESE PREREQUISITES YOU CANNOT ENROLL.
Content	This course is designed to acquaint the student with the application of atmospheric dynamics and physical analysis techniques to mesoscale phenomena. Topics include definition of the term “mesoscale,” radar principles and interpretation, drylines, deep convective storms, tornadoes, mesoscale convective systems, mesoscale cellular convection, horizontal convective rolls, land/sea breezes, mountain waves and hurricanes.
Grading	Homework problems 25% Three in-class exams (Feb 24 and Apr 7 at the regular class time, as well as May 9 from 1:30-3:30 pm) 75%

Note: There will be no comprehensive final exam

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 Dr. Droegemeier 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.

It is the student's responsibility to read and understand the University of Oklahoma Student Code, especially that governing Academic Misconduct. Violations of the Student Code will not be tolerated in this course.