METR 4433, Mesoscale Meteorology
Spring 2017

Instructor
Dr. Kelvin K. Droegemeier (kkd@ou.edu)
Office: Five Partners Place, Room 3211 (325-3806)
Office Hours: To be announced

Room/Time
Room 5600, National Weather Center, Tues and Thurs, 11:30 am – 12:45 pm

Class Web Site
http://kkd.ou.edu and see METR 4433 link

Facebook Page
http://facebook.com/groups/OUMETR4433

Grader
Ms. Larissa Reames (lreames@ou.edu)
Office: National Weather Center, Room 5104
Office Hours: To be announced

Required Text

Supplemental

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%
Weekly Quizzes 10%
2 Hour Exams (Thursday, Feb 16 and Thursday, Mar 30) 30%
Comprehensive Final Exam (Wednesday, May 10, 10:30 am) 35%

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.