METR 4433, Mesoscale Meteorology Spring 2015

Instructors	Dr. Jeremy A. Gibbs Email: gibbz@ou.edu Office: NWC 5648 (405-325-7411) Hours: Tues and Thurs, 12:45 pm - 1:30 pm; Other times by appointme	
	Dr. Ming Xue Email: mxue@ou.edu Office: NWC 2502 (405-325-6037) Hours: TBA	
Room/Time	NWC 5600, Tues and Thurs, 11:30 am - 12:45 pm	
Website	http://twister.ou.edu/MM2015	
Grader	Ms. Rachel Miller, NWC 5110, rlmiller93@yahoo.com	
Required Text	Markowski, P. and Y. Richardson: <i>Mesoscale Meteorology in Midlatitudes.</i> Wiley-Blackwell, 430pp.	
Optional Text	Ray, P. S. (Editor): <i>Mesoscale Meteorology and Forecasting.</i> American Meteorological Soc., 793 pp.	
	Lin, YL.: Mesoscale Dynamics. Cambridge University Press, 646 pp.	
Prerequisites	C or better in METR 4133 and METR 4424 or their equivalents.	
Content	This course is designed for the students to understand, by applying atmospheric dynamics and physical analysis techniques, mesoscale and convective-scale phenomena, including mesoscale convective systems, severe thunderstorms, tornadoes, drylines, low-level jets, mountain waves and orographic precipitation, land/sea breezes, boundary layer rolls, and hurricanes.	
Grading	Homework sets Two in-class exams Term project Comprehensive final exam	10% 30% 30% 30%

Any student in this course who has a disability that may prevent him or her from fully demonstrating his or her abilities are requested to speak with Dr. Gibbs as early in the semester as possible. Students with disabilities 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.