

SYLLABUS: SYNOPTIC METEOROLOGY LABORATORY (METR 4424)

CLASS TIME: MW 3-4:45pm; TR 2-3:45pm CLASS ROOM: NWC 5600

INSTRUCTOR: Dr. Kevin Kloesel, Assistant Dean, College of Atmospheric and Geographic Sciences

OFFICE: NWC Suite 1100 OFFICE HOURS: TR 4-5, or see Lee Anne Sallee in 1100 for appointments

PHONE: 325-3298 EMAIL: longhorn@ou.edu

TEACHING ASSISTANTS: Patrick Marsh and Richard Lam

COURSE WEB SITE: Accessible via <http://learn.ou.edu> (log in with 4+4)

REQUIRED TEXT AND READING LIST: To be assigned

COURSE GRADE DETERMINATION:

In-class Laboratory Work/Homework	30%
Frequent Proficiency Evaluations (no drops)	40%
Communications (oral presentations, briefings, writing assignments, etc.)	30%

ENROLLMENT: Prerequisite: Grade of C or better in METR3123, METR3223

COURSE GOAL: The purpose of this lecture/laboratory course is to gain an understanding of the observed behavior of the atmosphere through the application of basic theoretical principles. Concepts will be developed for studying atmospheric circulations, particularly extra-tropical cyclones and anticyclones. Laboratory work will include the development of diagnostic techniques suitable for a better understanding of the current weather and will use modern technological tools. Students will be expected to explain theoretical concepts in an oral and written format. They also will be expected to demonstrate mastery in understanding various physical processes that impact weather analysis and forecasting, surface and upper air analysis, fronts and wave cyclones, satellite meteorology, sounding analysis, thermodynamic diagrams, cross sections, forecasting, NCEP models, MOS, radar meteorology, and severe spring and winter weather.

IMPORTANT POLICIES:

Reasonable Accommodation:

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 me 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 TDD only 405/325-4173.

Academic Misconduct:

All provisions of the Norman Campus Academic Misconduct Code shall apply in cases of academic dishonesty. ANY violation of the Academic Misconduct Code will result in your removal from this course, and a grade of F will be recorded for the course. Academic misconduct is defined as "any act that improperly affects the evaluation of a student's academic performance or achievement." At the University of Oklahoma, academic integrity is expected from each student. Misconduct such as plagiarism, fabrication, and fraud, as well as attempting to commit such acts or assisting others in so doing, will not be tolerated. Students are responsible for knowing the OU Academic Code, which can be found at <http://studentconduct.ou.edu/> and www.ou.edu/provost/integrity.