

GEOG 2630L - Weather Lab

Summer 2026 Syllabus, Section 01, CRN 30020,

Credit hours: 1

Instructor

Peter Kimosop

Professional Qualifications:

Ph. D., Geography, University of Cincinnati, 2011

Master's, Geography, Western Michigan University, 2005

Bachelor's, Geography, University of Nairobi, 2000

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Course Description

2630L. Weather Lab. Students observe, collect and analyze atmospheric data, and determine and predict weather conditions. Atmospheric laws and meteorological principles, concepts, and processes are investigated using the scientific method. Weekly investigations are undertaken in this hybrid lab encompassing in-class and online instructions. The class meets in person as needed for guidance. Optional lab to accompany GEOG 2630: Weather. Prereq.: GEOG 2630 or concurrently with GEOG 2630. 1 s.h.

Course Readings

Group	Title	Author	ISBN
Optional	The Atmosphere: An Introduction to Meteorology	Lutgens, Tarbuck, and Herman	978-0134758589

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
5/11	Lab 1	Vertical structure of the atmosphere	Lab 1
5/18	Lab 2	Earth-Sun Geometry Global Energy Budget & Temperature Data	Lab 2
5/25	Lab 3	Atmospheric Moisture, Saturation and Atmospheric Stability Cloud Droplets and Raindrops	Lab 3
6/1	Lab 4	Atmospheric Pressure Atmospheric Planetary Circulation	Lab 4
6/8	Lab 5	Surface Weather Maps & Airmass Advection Fronts and Midlatitude Cyclones	Lab 5
6/15	Lab 6	Thunderstorms and Tornadoes Hurricanes	Lab 6

6/22	Lab 7	Weather analysis and Forecasting Weather satellite imagery	Lab 7
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The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.