

GEOG 2630L - Weather Lab

Fall 2026 Syllabus, Section 01, CRN 40403,

Credit hours: 1

Instructor

Peter Kimosop

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Public Instructor Information

Instructor Title: Associate Professor

Instructor Professional Qualifications:

Certified Remote Pilot, Federal Aviation Administration (FAA), 2025

GIS Professional Certification (GISP), GIS Certification Institute, 2015

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

Master's, Geography, Western Michigan University, 2005

Bachelor's, Geography, University of Nairobi, 2000

Instructor Office Location: Moser 2105

Instructor Office Phone: (330) 941-3052

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
8/24	No Lab	Introduction	
8/31	Lab 1	Vertical Structure of the Atmosphere	Lab 1 – Due Sunday, September 6 at 11:59 p.m. .
9/7	Lab 2	Earth-Sun Geometry	Lab 2 – Due Sunday, September 13 at 11:59 p.m. .
9/14	Lab 3	Global Energy Budget & Temperature Data	Lab 3 – Due Sunday, September 20 at 11:59 p.m. .
9/21	Lab 4	Atmospheric Moisture, Saturation and Atmospheric Stability	Lab 4 – Due Sunday, September 27 at 11:59 p.m. .



9/28	Lab 5	Cloud Droplets and Raindrops	Lab 5 — Due Sunday, October 4 at 11:59 p.m.
10/5	Lab 6	Atmospheric Pressure	Lab 6 — Due Sunday, October 11 at 11:59 p.m.
10/12	Lab 7	Atmospheric Planetary Circulation	Lab 7 — Due Sunday, October 18 at 11:59 p.m.
10/19	Lab 8	Surface Weather Maps & Airmass Advection	Lab 8 — Due Sunday, October 25 at 11:59 p.m.
10/26	Lab 9	Fronts and Midlatitude Cyclones	Lab 9 — Due Sunday, November 1 at 11:59 p.m.
11/2	Lab 10	Thunderstorms and Tornadoes	Lab 10 — Due Sunday, November 8 at 11:59 p.m.
11/9	Lab 11	Hurricanes	Lab 11 — Due Sunday, November 15 at 11:59 p.m.
11/16	Lab 12	Weather Analysis and Forecasting	Lab 12 — Due Sunday, November 22 at 11:59 p.m.
11/23	Thanksgiving		
11/30	Lab 13	Weather Satellite Imagery	Lab 13 — Due Sunday, December 6 at 11:59 p.m.
12/7	No Lab		

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.