

GEOG 2630 - Weather

Fall 2026 Syllabus, Section 01, CRN 40085,

Credit hours: 3

Instructor

Melissa Phillips

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Public Instructor Information

Instructor Title: Melissa Koeka Phillips, Ph.D.

Instructor Professional Qualifications: Ph. D., Geography, Kent State University

Master's of Arts, Geography, Kent State University

Bachelor's of Science, Geography, University of Oklahoma

Instructor Office Location: Remote

Instructor Office Phone: Remote

Course Description

2630. Weather. An examination of basic weather elements, their interrelationships and the natural laws that govern them. Focus is on both global scale atmospheric processes and localized factors that influence weather conditions and patterns. 3 s.h.

Course Readings

Group	Title	Author	ISBN
Required	The Atmosphere: An Introduction to Meteorology	Dennis G. Tasa, Edward J. Tarbuck, Frederick K Lutgens, Redina Herman	9780134801018

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	Chapter 1	Syllabus Lecture 1: Introduction to the Atmosphere	Discussion 1 (not graded) Quiz 1: week 1
8/31	Chapter 2	Lecture 2: Heating Earth's Surface & Atmosphere	Discussion 2**
9/7	Chapter 3	Lecture 3: Temperature	Quiz 2: weeks 2 & 3
9/14	Chapter 4	Lecture 4: Moisture & Atmospheric Stability	Discussion 3**
9/21	Chapter 5	Lecture 5: Forms of Condensation & Precipitation	Quiz 3: weeks 4 & 5
9/28	Chapter 6	Lecture 6: Air Pressure & Winds	Midterm Preparation
10/5	Chapter 7	Lecture 7: Circulation of the Atmosphere	Midterm: weeks 1 - 7
10/12	Chapter 8	Lecture 8: Air Masses	None
10/19	Chapter 9	Lecture 9: Mid-latitude Cyclones	Quiz 4: weeks 8 & 9
10/26	Chapter 10 Chapter 11	Lecture 10: Thunderstorms & Tornadoes Lecture 11: Hurricanes	Discussion 4**
11/2	Chapter 12	Lecture 12: Weather Analysis & Forecasting	Quiz 5: weeks 10 & 11
11/9	Chapter 13	Lecture 13: Air Pollution	Discussion 5**
11/16	Chapter 14 Chapter 15	Lecture 14: Climate	Quiz 6: weeks 12 & 13

11/23	Chapter 16	Lecture 15: Optical Phenomena	Quiz 7: week 14
11/30	None	None	Final Preparation
12/7	Good luck during finals!	Don't skip sleep!	Final: weeks 8 - 14 Due: Friday, December 11th @11:59 pm ET

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.