GEOG 2630 - Weather

Fall 2026 Syllabus, Section 03, CRN 41239,

Credit hours: 3

Instructor

William Buckler

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Public Instructor Information

Instructor Title: Associate Professor
Instructor Professional Qualifications: Ph.D., Geography, Michigan State University, 1981; M.A., Geography, Michigan State University, 1973; B.A., Wayne State University, Geography, 1969
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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	Lutgens, Tarbuck and Herman	13-9780135213131

Listening to weekly audio PowerPoint presentations by the instructor is required and is necessary to complete most of the course assignments.

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

Weekly Weather Agenda

Week of	Reading(s)	Proposed Topic	Due/To Prepare for Class
8/24	pp 3-11, 72-73, 306-312; Audio PowerPoint; Isoline Maps Reading; Weather Observations and Z-Time Reading; Reading the Station Model Reading; Summary Characteristics of Low and High Pressure Systems	Introduction: Weather Elements, Maps and Concepts	
8/31	pp 3-11, 72-73, 306-312; Audio PowerPoint; Isoline Maps Reading; Weather Observations and Z-Time Reading; Reading the Station Model Reading; Summary Characteristics of Low and High Pressure Systems	Introduction: Weather Elements, Maps and Concepts	
9/7	pp 12-22, 44-51; Audio PowerPoint	The Atmospheric Envelope	Due Sept 8: Weather Maps Exercise (17 pts)
9/14	pp 28-34, 52; Audio PowerPoint	Earth-Sun Relationships: The Seasons	Due Sept 14: Introduction & the Atmospheric Enveloper Assignment (50 pts)
9/21	pp 35-50; Audio PowerPoint	Solar and Earth Radiation	Due Sept 21: Seasons Assignment (20 pts)
9/28	pp 55-78; Audio PowerPoint	Temperature	Due Sept 28: Solar and Earth Radiation Assignment (30 pts)

10/5	pp 83-95; Audio PowerPoint	Atmospheric Moisture	Due Oct 5: Youngstown Climatology Assignment (25 pts)
10/12	pp 96-111; Audio PowerPoint	Atmospheric Stability and Instability	Due Oct 12: Temperature and Atmospheric Moisture Assignment (40 pts)
10/19	No New Readings - Stress-Free Week	No New Topic - Stress-Free Week	Due Oct 19: Atmospheric Stability and Instability Assignment (24 pts)
10/26	pp 114-138, 143-144	Forms of Condensation and Precipitation	
11/2	pp 148-171, 235-237; Audio PowerPoint	Atmospheric Pressure and Winds	Due Nov 2: Forms of Condensation and Precipitation Assignment (41 pts)
11/9	pp 204-221, 225-231; Audio PowerPoint	Air Masses and Fronts	Due Nov 9: Atmosphic Pressure and Winds Assignment (60 pts)
11/16	pp 190-194, 235-237, 309-312; Audio PowerPoint	The Upper-Level Westerlies and the Polar Front Jet Stream	Due Nov 16: Air Masses and Fronts Assignment (50 pts)
11/23	Thanksgiving Week - No New Readings	Thanksgiving Week - No New Assignments	Thanksgiving Week - Nothing is Due
11/30	pp 232-249; Audio PowerPoint	Mid-Latitude Disturbances	
12/7	Final Exam Week	No Closed-Book Final Exam	Due Dec 9: Upper-Level Westerlies & Mid-Latitude Disturbances Assignment (48 pts); all late/missing assignments due by noon on Thursday, Dec 10.

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.