

GEOG 2630 - Weather

Fall 2026 Syllabus, Section 07, CRN 41650,

Credit hours: 3

Instructor

Jennifer Burrell

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Public Instructor Information

Instructor Title: Dr. Jennifer Burrell

Instructor Professional Qualifications:

2019 PhD Geography, Kent State University. Dissertation title: The Development and Utilization of Fine-scale methods to Track Neighborhood Changes: Case Study Youngstown, Ohio

2013 Certificate. Geospatial Intelligence, Pennsylvania State University, State College, PA

2011 M.A. Geography, Kent State University. Thesis title: Water Table Variability on the Pitted Karst Plain, Yucatán, Mexico

2008 B.S. Geology, Minors: Climatology, Geography. Kent State University, Kent, OH

Instructor Office Location: N/A

Instructor Office Phone: N/A To contact, email jlburrell@ysu.edu

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 and Tarbuck	

Various versions (e.g. used, loose-leaf), but this book is part of the First Day program (see below for details).

There are notes from the publisher that are provided on the course site. The notes are based on the book and I have inserted additional notes from sources that are subject matter experts.

First Day®

To enhance your learning experience and provide affordable access to the right course material, this course is part of an inclusive access model called First Day. You can easily access the required materials for this course at a discounted price, and benefit from single sign-on access with no codes required in Blackboard.

Youngstown State University will bill you at the discounted price as a course charge for this course.

It is NOT recommended that you Opt-Out, as these materials are required to complete the course. You can choose to Opt-Out on the first day of class, but you will be responsible for purchasing your course materials at the full retail price and access to your materials may be suspended.

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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	WK 1: Course Introduction; The Basics	Introduction post due Sunday, 8/30 by 11:59pm
8/31	Chapter 2	WK 2: The Basics continued and Earth-Sun Relations	Weekly Discussion Post due Sunday 9/6 by 11:59pm
9/7	Chapter 3	WK 3: Heat and Temperature as Driving Forces	Weekly Discussion Post due Sunday, 9/13 by 11:59pm
9/14	Chapter 4	WK 4: Moisture and Atmospheric Stability; Exam 1 (Ch 1-3)	Weekly Discussion Post due Sunday, 9/20 by 11:59pm; Exam 1 DUE SUNDAY 9/14 by 11:59pm
9/21	Chapter 5	WK 5: Forms of Condensation and Precipitation	Weekly Discussion Post due Sunday, 9/27 by 11:59pm
9/28	Chapter 6	WK 6: Air Pressure and Winds	Weekly Discussion Post due Sunday, 10/4 by 11:59pm
10/5	Chapter 7	WK 7: Atmospheric Circulation	Weekly Discussion Post due Sunday, 10/11 by 11:59pm
10/12	Chapter 7	WK 8: Atmospheric Circulation Continued; Exam 2 (Ch. 4 and 6)	Weekly Discussion Post due Sunday, 10/18 by 11:59pm; Exam 2 DUE SUNDAY 10/18 by 11:59pm
10/19	Chapter 8	WK 9: Air Masses	Weekly Discussion Post due Sunday, 10/25 by 11:59pm
10/26	Chapter 9	WK 10: Middle Latitudes; Final Project Introduced	Weekly Discussion Post due Sunday, 11/1 by 11:59pm
11/2	Chapter 10	WK 11: Thunderstorms, Lightning, and Tornadoes	Weekly Discussion Post due Sunday, 11/8 by 11:59pm
11/9	Chapter 11	WK 12: Tropical Cyclones	Weekly Discussion Post due Sunday, 11/15 by 11:59pm
11/16		WK 13: T-storms and Tropical Cyclones wrap up	Weekly Discussion Post due Sunday, 11/22 by 11:59pm
11/23	Chapters 13 and 14	WK 14: Air Pollution and Climate Change; Thanksgiving Break starts 11/25	Weekly Discussion Post due Sunday, 11/29 by 11:59pm
11/30		WK 15: Air Pollution and Climate Change Continued; Exam 3 (Ch. 7-11, 13, 14) Final Project, Due Dec. 6 by 11:59pm	Weekly Discussion Post due Sunday, 12/6 by 11:59pm; Final Project DUE 12/6 by 11:59pm!!!
12/7		Final Exam Week – No Final Exam	No discussion - Final Exams Week

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.