

## GEOG 2630 - Weather

Fall 2026 Syllabus, Section 02, CRN 42878,

Credit hours: 3

### Instructor

Breanna Beaver

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### Public Instructor Information

Instructor Title: Dr. Bre Beaver

Instructor Professional Qualifications:

Ph.D., Curriculum & Instruction: Science Education, Kent State University, 2023

P.B.A.C.C., American Meteorological Society DataStreme, California University of Pennsylvania, 2019

M.S., Environmental Science, Youngstown State University, 2017

B.S., Secondary Education Integrated Sciences, Youngstown State University, 2016

Instructor Office Location: BCOE 2210

Instructor Office Phone: 330-941-7230

### 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 |      |

\*This book is part of the FirstDay program. You will have immediate access to the electronic text on Blackboard.

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    | Ch 1 & BB Materials | Course Introduction, The Basics         | Introduction post due Wed and peer responses due Sun<br>Extreme Weather Project Discussion due Sun |
| 8/31    | Ch 2 & BB Materials | Earth-Sun Relations and The Basics      | Weekly post due Wed and peer responses due Sun                                                     |
| 9/7     | Ch 3 & BB Materials | Heat and Temperatures as Driving Forces | Weekly post due Wed and peer responses due Sun<br>Extreme Weather Project - Part I                 |
| 9/14    | Ch 4 & BB Materials | Moisture and Atmospheric Stability      | Weekly post due Wed and peer responses due Sun                                                     |

|       |                      |                                |                                                                                                         |
|-------|----------------------|--------------------------------|---------------------------------------------------------------------------------------------------------|
| 9/21  | Ch 5 & BB Materials  | Condensation and Precipitation | Weekly post due Wed and peer responses due Sun<br>Exam 1 (Ch 1 - 4)                                     |
| 9/28  | Ch 6 & BB Materials  | Air Pressure and Winds         | Weekly post due Wed and peer responses due Sun                                                          |
| 10/5  | Ch 7 & BB Materials  | Atmospheric Circulation        | Weekly post due Wed and peer responses due Sun<br>Extreme Weather Project - Part 2                      |
| 10/12 | Ch 8 & BB Materials  | Air Masses                     | Weekly post due Wed and peer responses due Sun                                                          |
| 10/19 | Ch 9 & BB Materials  | Middle Latitudes               | Weekly post due Wed and peer responses due Sun<br>Exam 2 (Ch 5-8)                                       |
| 10/26 | Ch 10 & BB Materials | Thunderstorms                  | Weekly post due Wed and peer responses due Sun<br>Extreme Weather Project - Part 3                      |
| 11/2  | Ch 10 & BB Materials | Tornadoes                      | Weekly post due Wed and peer responses due Sun                                                          |
| 11/9  | Ch 11 & BB Materials | Tropical Cyclones              | Weekly post due Wed and peer responses due Sun<br>•Extreme Weather Project - Presentation & Peer Review |
| 11/16 | Ch 13 & BB Materials | Air Pollution                  | •Weekly post due Wed and peer responses due Sun                                                         |
| 11/23 |                      | Thanksgiving Week!             |                                                                                                         |
| 11/30 | Ch 14 & BB Materials | Climate Change                 | Weekly post due Wed and peer responses due Sun<br>Exam 3 (Ch 9-11, 13,14)                               |

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.