MAYVILLE STATE UNIVERSITY

ASTR 150 Introduction to Meteorology

Jeff Hovde

Spring 2020

Semester Hours: 3

Contact Info:

Office Ext.: 701-788-5291
Office: SB 130 A
Email: jeffrey.hovde@mayvillestate.edu

Hours of availability: By appointment
Instruction Mode: Online asynchronous
Time Zone: Central Standard Time

Course Description: A study of the earth's atmosphere and the elements of the weather, weather type and storms, meteorological instruments, and weather maps. This course is especially valuable to persons who plan to teach.

Purpose of the Course

The purposes of Meteorology include meeting the expectations of a MSU and North Dakota University System 'laboratory science' requirement and System 'common course', developing an understanding of basic meteorological principles, and developing a general appreciation of meteorology (and science) and its role in today's society.

Course Objectives

The goals of the MSU Science program are to present current information on aspects of the physical world and to develop logical reasoning, sometimes mathematical, relating one process to another. Meteorology prepares students to explain the basic principles of meteorology and its relationships to other disciplines, to describe different scientific models and how these models are used to stimulate scientific inquiry, and to identify the assumptions and limitations of scientific writing/reporting.

Students who have completed this course should:

1. Recognize and analyze meteorological data that is essential for both short term and long term weather forecasting.
2. The student will be able to answer content specific questions using concepts related atmospheric structure and the processes of developing weather systems.
3. The student will be able to answer content specific questions related to biological, social, and economic impacts of current concerns pertaining to climate change and air quality.
4. Determine the validity of current concerns pertaining to climate change and air quality.

Program Student Learning Outcomes Addressed in This Course

The Academic Program Student Learning Outcomes document can be found in your course shell. It contains all learning outcomes pertaining to Essential Studies courses and all majors and minors. The document has an index, so you can quickly find the degree you are pursuing.

As part of Mayville State's effort to demonstrate continuous improvement in achieving student learning outcomes, this course:

☐ introduces SLO # ☐ reinforces SLO # ☐ masters SLO # For Major / Minor:	☐ introduces SLO # ☐ reinforces SLO # ☐ masters SLO # For Major / Minor:	☐ introduces SLO # ☐ reinforces SLO # ☐ masters SLO # For Major / Minor:	☐ introduces SLO # ☐ reinforces SLO # ☐ masters SLO # For Major / Minor:

As part of Mayville State's effort to demonstrate continuous improvement in achieving Essential Studies Learning Outcomes, this course will assess

ELO # ☐1 ☐2 ☐3 ☐4

as part of the Essential Studies and Capstone Courses. As part of Mayville State University's Essential Studies curriculum, this course seeks to prepare students for twenty-first century challenges by gaining: 1) Knowledge of human cultures; 2) Intellectual and practical skills; 3) Personal and social responsibility; 4) Integrative and applied learning.

The assessment activity will involve essay questions.

Course Improvements Based on Most Recent Assessment Findings

This course will not be assessed in the future (based on the 2019-2025 assessment curriculum map) and the findings will not be reported in this syllabus.

Required Materials

Ahrens, C. D. (2013). *Meteorology Today* (10th ed.). Belmont, CA: Brooks/Cole.

Learning Experiences

- Assignments will be given via the Detailed Schedule. Submit all assignments in Blackboard on designated due dates.

Expectations/Protocols

There will be NO make-up quizzes or tests given unless I have been contacted prior to the day of the test with a valid excuse. There are very few approved excuses so do not assume that your excuse is sufficient.

I do not accept any late work.

Do not email me to inform me of the grade you need for the course.

I will reply to all student emails within 48 hours. Email is the best way to contact me.

Instructor/Student Communication

- Students are accountable for all academic communications sent to their Mayville State University e-mail address.
- I will grade your work within 1 week.
- Assignments are not weighted.
- I will communicate through email and announcements in Blackboard.

Course Grading:

Total Points:
Tests 200pts
Quizzes 131pts
Introduction Forum 10 pts
Total: 341pts

90 - 100%	A
80 - 89.9%	B
70 - 79.9%	C
60 - 69.9%	D

Enrollment Verification

The U.S. Department of Education requires instructors of online courses to provide an activity which will validate student enrollment in this course. The only way to verify that a student has been in this course is if he or she takes an *action* in Blackboard, such as completing an assignment or a taking a quiz. Logging into Blackboard is **NOT** considered attendance. Please see my enrollment verification activity and complete it by the date indicated. If it is not complete your enrollment in this course will be at risk.

Proctor Notification:

All exams will be completed using the program Yuja as your proctor.

Important Student Information

Navigate to Blackboard > MaSU tab > Student Resources tab to find a document entitled, "Important Student Information," which includes information about:

- ✓ Academic Grievance Concerns and Instructor English Proficiency
- ✓ Starfish - Student Success System
- ✓ Students with Documented Disabilities
- ✓ Academic Honesty
- ✓ Emergency Notification
- ✓ Continuity of Academic Instruction for a Pandemic or Emergency
- ✓ Family Educational Rights and Privacy Act of 1974 (FERPA)

- ✓ Diversity Statement

A listing of important University policies related to courses and coursework, *Important Student Information*, is posted on the class Blackboard site.

Course Timeline/Schedule:

The following is a schedule of due dates.

Introduction Forum	January 17th	On Blackboard 11:59p.m. cst
Ch. 1 Quiz	February 7th	On Blackboard 11:59p.m. cst
Ch. 2 Quiz	February 7th	On Blackboard 11:59p.m. cst
Ch. 3 Quiz	February 7th	On Blackboard 11:59p.m. cst
Ch. 4 Quiz	February 7th	On Blackboard 11:59p.m. cst
Exam 1	February 10h	On Blackboard 11:59p.m. cst
Ch. 5 Quiz	March 7th	On Blackboard 11:59p.m. cst
Ch. 6 Quiz	March 7th	On Blackboard 11:59p.m. cst
Ch. 7 Quiz	March 7th	On Blackboard 11:59p.m. cst
Exam 2	March 10th	On Blackboard 11:59p.m. cst
Ch. 8 Quiz	April 4th	On Blackboard 11:59p.m. cst
Ch. 9 Quiz	April 4th	On Blackboard 11:59p.m. cst
Ch. 11 Quiz	April 4th	On Blackboard 11:59p.m. cst
Exam 3	April 7th	On Blackboard 11:59p.m. cst
Ch. 13 Quiz	May2nd	On Blackboard 11:59p.m. cst
Ch. 14 Quiz	May 2nd	On Blackboard 11:59p.m. cst
Ch. 15 Quiz	May 2nd	On Blackboard 11:59p.m. cst
Exam 4	May 5th	On Blackboard 11:59p.m. cst

The above schedule and procedures in this course are subject to change with prior notice given to students in the event of extenuating circumstances.