

Geo 107 Introduction to Meteorology Syllabus

Instructor: Brad Jakubowski

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Meeting Time: Monday Evening 6:00 to 10:30

There is a tremendous amount of information to learn and a number of activities to participate in, so classes tend to run the length of the period.

Required Text: *The Atmosphere: An Introduction to Meteorology*, 12th Ed. Lutgens and Tarbuck. Pearson Prentice Hall, Inc. 2012. ISBN-13: 9780321756312.

Reference Text: *Weather and Climate of Nebraska* Nebraskaland Magazine, 1996. (Provided)

Website 'Text': Jetstream - Online School for Weather

Additional

Websites: In addition to the resources listed above, we will use internet resources every class period to get the most recent weather information. The sites we will use most often are listed:

National Weather service: www.weather.gov

Accuweather: www.accuweather.com

The Weather Channel: www.weather.com

Objectives:

The primary goal for this class is to introduce the student to basic concepts of meteorology. The student will gain an understanding of how weather works and develop the ability to apply observations to daily activities.

By the end of this course, students will:

1. Develop a general knowledge of meteorology and its associated concepts.
2. Understand how different types of weather can develop from the three basic ingredients: air, heat, and moisture.
3. Explore the processes that influence earth's weather and climate such as day length, water and air currents, differential heating of land and water, atmospheric moisture, and factors in cloud formation.
4. Gain a familiarity with meteorological terms such as humidity, dew point, latent heat, and understand how they influence peoples' lives.
5. Identify the different airmasses that influence our weather, place weather fronts on a weather map, and make weather forecasts based on information given.

Class Format:

Classes will consist of:

- Discussions of the current weather and how it applies to the concepts of the course.
- PowerPoint presentations of each lecture (Available on Blackboard)
- Interactive exercises to be completed in-class individually and in groups.
- Videos, YouTube clips, and demonstrations, etc.
- Outdoor observations of the weather

Online Component

This class will utilize a number of websites to support homework assignments, daily readings and activities. A significant number of assignments will be accomplished and submitted through the Blackboard system. All grades will be tracked through blackboard. Assignments not turned in will be assigned a zero grade and is the responsibility of the student to stay current with their grades and make sure assigned work is turned in to correct a zero grade if approved by the instructor.

Grading:

Each week you have the opportunity to earn points towards your final grade. Each week that you are physically present to participate in class discussions and activities, you earn points (**In-Class points**). Points are also earned for completing and participating in weekly exercises, quizzes, homework assignments, and exams.

Letter grades will be earned as follows:

<u>Grade</u>	<u>% Percent</u>
A	92-100
B	81-91
C	70-80
D	60-69
F	59 or below

Exams, Assignments, and Attendance

We have eight days to cover 14 weeks of classes. Study loads can be heavy and will be accomplished primarily through Blackboard. Please attend all classes, submit all weekly assignments on time, and take all quizzes and exams. Also, to make this class worth your while and tuition dollars, please expect the classes to run the full period, if not pretty close.

If you must miss class, you **MUST** contact me **PRIOR** to class via email or phone call. If done so, an opportunity to earn points will be provided (**except for the In-Class points**). The Some activities are done in groups and may require you to have a substitute present your information for you.

Missed exams must be approved prior to the exam and made up before the next week's class.

If you have any questions about grades, please bring them to me within one week's time.

Electronic communications during class

Please respect the learning environment and others by refraining from texting, reading or sending emails or any type of electronic communication during class time. If this becomes problematic during class, students will be asked to leave. Communications during breaks is welcome.

Class Schedule

A tentative class schedule will be given out at the beginning of the school term.