Course Description and Objectives

In this course we will explore the physical processes of Meteorology.
We will talk about tornadoes, severe storms, humidity, jet streams, winds, fronts, hurricanes, and more.

We will explore questions such as:

- How do clouds form?
- What causes lightning?
- Why is the sky blue?

We will forecast the weather using the same tools used by the National Weather Service.

Along the way, we will explore the physical processes of Meteorology.

We will discuss the current weather and how scientists do their work.

We will learn about Meteorology in more detail during hands-on labs.

You will learn skills you will use the rest of your life, such as how to learn, listen, take notes, organize your thoughts, communicate effectively, seek help, and be successful.

We will also interpret and analyze charts, graphs, maps, and tables.

Textbooks

- Lab Manual Fall 2017
  —Required by 2nd week of class!
  —Available at ARCC bookstore

- Text—Essentials of Meteorology
  —6th edition
  —by Ahrens
  —Optional—You don’t need it for the course
  —If you want the text, buy it cheap online
My Teaching Philosophy

Students are adults
- No games, no busy work
- Students are responsible for their success
- Students are expected to behave and not disrupt class

Respect
- I expect that we will all respect each other
- I will respect you by:
  — starting class on time
  — ending class on time

— providing clear expectations about grading policies, exam dates, topic outlines, expected behavior

— I expect you to respect the rest of the class and me by:
  — Showing up to class on time
  — Being prepared to be part of the class
  — Being attentive in class
  — Not being disruptive

Appropriate Behavior in Lecture Class

Be courteous

Do not socialize in the classroom
- This means no talking!
- If this becomes a problem, you may be asked to be quiet, or kicked out of the classroom, or given a seat assignment

Try to be on time to class
- Everyone is late once in a while.
- If you are late, please do not be disruptive. Be courteous and quiet.
- If you are late more than 20% of the time (excluding exams), then you may not be allowed in lecture.

Do not pack up early

“LET THE RAIN KISS YOU. LET THE RAIN BEAT UPON YOUR HEAD WITH SILVER LIQUID DROPS. LET THE RAIN SING YOU A LULLABY.”
—LANGSTON HUGHES

“NATURE HAS NO MERCY AT ALL. NATURE SAYS ‘I’M GOING TO SNOW. IF YOU HAVE ON A BIKINI AND NO SNOWSHOES, THAT’S TOUGH. I AM GOING TO SNOW ANYWAY.’”
—MAYA ANGELOU
What are exams like?

- Exams are based primarily on material presented in lecture.
- Exams consist primarily of multiple choice questions.
- The lowest score among the first 4 exams is not included in your exam average. Everyone counts the 5th exam.
- There are no makeup exams.

The exam dates for this semester are:
- Exam 1 Mon, Sep 11
- Exam 2 Mon, Oct 2
- Exam 3 Wed, Oct 25
- Exam 4 Fri, Nov 17
- Exam 5 Wed, Dec 13
  11:50 AM-1:00 PM
  S245 (same room)

The final is not cumulative.

How are grades determined?

Your grade in the course is based on your performance on the exams.

<table>
<thead>
<tr>
<th>Exam average</th>
<th>Course grade</th>
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<tbody>
<tr>
<td>&gt;75%</td>
<td>A</td>
</tr>
<tr>
<td>65-75%</td>
<td>B</td>
</tr>
<tr>
<td>55-65%</td>
<td>C</td>
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<tr>
<td>&lt;55%</td>
<td>F</td>
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What are lecture classes like?

- During most of the class time I will be explaining the physical processes of Meteorology.
- I will be doing demonstrations.
- The material covered in the course is outlined in the Topic Outlines.
- I expect you to regularly go online and USE the Topic Outlines.
- I will be writing on the board.
- We will discuss the current weather.
- Attendance is not required for lecture.
- I will be showing images. These images are available on D2L.
- You are responsible for the images with *.
- You are responsible for the images with *.
- I expect you to regularly go online and VIEW and LEARN and UNDERSTAND these images.
- Lectures MWF 11:00 — 11:50

How to be successful in this course

- ATTEND CLASS AND LAB
- USE THE TOPIC OUTLINES CONSTANTLY
- PAY ATTENTION IN CLASS
- READ THE D2L EXPLANATIONS
- TAKE GOOD notes
- BRING * IMAGES TO CLASS
- WRITE DOWN MORE THAN WHAT IS WRITTEN ON THE BOARD
- STUDY MORE THAN THE DAY OR TWO BEFORE THE EXAM
- KNOW WHAT IS AVAILABLE ONLINE
- DO MORE THAN GO OVER YOUR NOTES WHEN YOU STUDY
Labs

- The primary objective of lab is to give you a chance to experience and learn about Meteorology in a low-stress, hands-on, no-lecture environment.
- Lab attendance is required to complete the course objectives.
- If you are more than 10 minutes late to lab, you will not be allowed to participate. If you are late more than 20% of the time to lab, you may not be allowed to participate.
- The lab meets for the entire 100 minutes.
- You must have your lab manual to participate (after the first week). [In other words, if you don't have your lab manual you can't participate in lab.]
- Be prepared to go outside each week.
- Bring a pencil, pen, and separate eraser to lab.
- There are optional study sessions open to all instead of labs on the following dates: —Sep 5, Oct 31
- Labs are graded pass/fail. If you don't pass at least 10 labs, you will fail the course.
- Labs improve your course grade:
<table>
<thead>
<tr>
<th># of labs passed</th>
<th>Points added to best exam</th>
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<tbody>
<tr>
<td>13</td>
<td>15</td>
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<td>12</td>
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<td>8</td>
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Odds and Ends

- No electronics (laptops, recorders, etc.) without the instructor’s permission.
- If you do not meaningfully participate in the class during the first two weeks, you may be dropped from the course.

Academic Honesty

All students are expected to adhere to standards of academic honesty as specified in the Student Conduct Code. I take academic honesty issues very, very seriously.

Cheating on exams or assigned tasks may result in consequences in this course as severe as failing the course. Violations of the Student Conduct Code can result in penalties as severe as expulsion from the college.