		Lecture Section - Fair 2010
Date	Topic	Reading/Lecture*
M 20 Aug 2018	Introduction/ The Earth's	Chapter 1
	Atmosphere	
W 22 Aug	The Earth's Atmosphere	
M 27 Aug	Warming the Earth and Atmosphere	Chapter 2
W 29 Aug	Warming the Earth and Atmosphere	
M 3 Sep	Labor Day	No classes
W 5 Sep	Air Temperature	Chapter 3
M 10 Sep	Air Temperature	
W 12 Sep	Exam I	Chapters 1 - 3
M 17 Sep	Humidity, Condensation, and	Chapter 4
	Clouds	-
W 19 Sep	Humidity, Condensation, and Clouds	
M 24 Sep	Cloud Development and	Chapter 5
M 24 Sep	Precipitation	Chapter 5
W 26 Sep	Cloud Development and	
	Precipitation	
M 1 Oct	Cloud Development and	
W 2 O - 4	Precipitation	<u>Oleantan</u> (
W 3 Oct	Air Pressure and Winds	Chapter 6
W 10 Oct	Air Pressure and Winds	
M 15 Oct	Air Pressure and Winds &	
	Review	
W 17 Oct	Exam II	Chapters 4 - 6
M 22 Oct	Atmospheric Circulations	Chapter 7
W 24 Oct	Atmospheric Circulations	
M 29 Oct	Air Masses, Fronts, and Middle-	Chapter 8
W 31 Oct	Latitude Cyclones Air Masses, Fronts, and Middle-	
w 31 Oct	Latitude Cyclones	
M 5 Nov	Air Masses, Fronts, and Middle-	
	Latitude Cyclones & Review	
W 7 Nov	Exam III	Chapters 7 - 8
M 12 Nov	Thunderstorms and Tornadoes	Chapter 10
W 14 Nov	Thunderstorms and Tornadoes	
M 19 Nov	El Reno tornado – May 2013	
M 26 Nov	Hurricanes	Chapter 11
W 28 Nov	Hurricanes	
M 3 Dec	Presentations	Weather Forecasts
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Syllabus for ATMS 113 – Understanding the Atmosphere – Lecture Section - Fall 2018

*lecture viewing shall be completed **<u>before</u>** class meets on this date

Description

A course designed for the major and non-major student who is interested in learning the basics of the structure of our atmosphere and how the structure changes over time. Upon completion of this class you will be able to teach friends and family about details of the weather and be equipped to make a weather forecast for any location in the U.S.

Outline

The Earth's Atmosphere (text, Chapter 1) Warming the Earth and Atmosphere (text, Chapter 2) Air Temperature (text, Chapter 3) Humidity, Condensation, and Clouds (text, Chapter 4) Cloud Development and Precipitation (text, Chapter 5) Air Pressure and Winds (text, Chapter 6) Atmospheric Circulations (text, Chapter 7) Air Masses, Fronts, and Middle-Latitude Cyclones (text, Chapter 8) Thunderstorms and Tornadoes (text, Chapter 10) Hurricanes (text, Chapter 11)

Grading

-B	
Weather Journal	5%
Pre- and Pro-	5%
Chapter Quizzes	10%
In-class Projects	10%
Weather Analysis and Forecast	10%
Exam I	15%
Exam II	15%
Exam III	15%
Final Exam	15%
Total	100%
92% < total score $\leq 100\%$	А
90% < total score \leq 92%	A-
88% < total score \leq 90%	B+
82% < total score \leq 88%	В
80% < total score \leq 82%	B-
78% < total score \leq 80%	C+
72% < total score \leq 78%	С
70% < total score \leq 72%	C-
68% < total score \leq 70%	D+
60% < total score \leq 68%	D
total score $\leq 60\%$	F
	-

Student Learning Outcomes for ATMS 113

- understand information being communicated on standard weather maps
- develop a conceptual model of the atmosphere that allows for the analysis and prediction of weather
- create solutions to weather-related challenges as a group and as an individual
- demonstrate an appreciation for impacts of global weather patterns on society

Weather Journal

Each student will be required to contribute to a weather web log in which they describe ways that the weather has impacted their daily life. You can find the weather web log page at <u>http://atms103unca.blogspot.com/</u> where further instructions are given. Each student is required to make <u>nearly two entries a week</u> (for a total of **25 entries** *minimum*). These entries will be reviewed periodically by the instructor to confirm that each student is keeping current with the assignment, so the entries are <u>not</u> private. In order to receive full credit on the weather journal assignment (5%), each student will need to make observations of weather impacts on their lives that are of a greater depth of analysis than simply writing "It was cold, so I put on a sweater."

Pre- and Pro-

Preparation and professionalism are important habits at UNC Asheville and in your future workplace. We'll work to develop both by having a lecture quiz at the very beginning of class on Mondays (no lecture quiz make-ups) to test that you have thoroughly read the chapter before diving into the in-class group projects. Professionalism is showing respect for each person in the class by actively listening and contributing. A lack of professionalism means that points are deducted from your Pre- and Pro- score. Each person will occasionally be evaluated on their contributions to group projects. The final semester tally will determine if you passed (earn the full 5%) or failed (0% score) in preparation and professionalism.

Chapter Quizzes

Quizzes will be given <u>weekly</u> once *per chapter* throughout the semester to encourage course participation and attendance. The quizzes will be defined either as individual or group quizzes. When a quiz is designated for a *group*, each individual within the group will receive an identical grade.

In-class Projects

ATMS 113 has recently been converted to a <u>flipped-lecture hybrid</u> classroom experience. Key concepts will be covered (briefly) during lecture in class, but you'll also have access outside of the classroom to a copy of recorded lectures covering the entire material of each chapter. Once a week you'll work on 'homework' via in-class projects under the watchful eye of Prof. Miller. Individual and Group responses to these challenge projects will be turned in *once a week* and reviewed in preparation for the chapter quizzes and mid-term and final exams. It is important that you come to class every day fully prepared by having read the required chapters of the course textbook. You cannot receive credit for an in-class project if you are absent from class, unless you have an <u>excused</u> absence.

Weather Analysis and Forecast

At the end of the semester, your group will be responsible for giving a ten- to fifteenminute weather briefing in which you discuss the current weather conditions (weather analysis) and create a weather forecast for a location in the United States. Prof. Miller will give examples of these discussions on Mondays throughout the semester. Details of the expectations and grading rubric for the weather briefing will be provided during the final month of the semester.

Exam I, II, and III

The mid-term exams (I, II, and III) will be primarily testing new material introduced since the previous exam or since the start of the semester.

Final Exam

The final exam is a *comprehensive* exam in which all the material contained in the entire course is testable.

Assignment/Quiz/Exam Policy

Reading assignments and lecture-listening are to be completed <u>before the start of lecture</u> on the date they are due. Quizzes and Exams are written tests and will be taken on the date they are scheduled, unless circumstances (e.g. medical or loss in the family) warrant. Make-up chapter quizzes for special circumstances will occur at a mutually agreed upon time outside of the usual class meeting time. The lowest chapter quiz score for each individual will be *dropped* from the total quiz score tabulation.

Instructor

Doug Miller 232-5158 http://www.atms.unca.edu/dmiller/ dmiller@unca.edu

Textbook

"Essentials of Meteorology An Invitation to the Atmosphere" by C. Donald Ahrens (eighth edition)

(continued)

Office of Academic Accessibility

UNC-Asheville values the diversity of our student body as a strength and a critical component of our dynamic community. Students with disabilities or temporary injuries/conditions may require accommodations due to barriers in the structure of facilities, course design, technology used for curricular purposes, or other campus resources.

Students who experience a barrier to full access to this class should let the professor know, and/or make an appointment to meet with the Office of Academic Accessibility as soon as possible. To make an appointment, call 828.232.5050; email <u>academicaccess@unca.edu</u>; use this link <u>https://uncaoaaintake.youcanbook.me/</u>; or drop by the Academic Accessibility Office, room 005 in the One Stop suite (lower level of Ramsey Library). Learn more about the process of registering, and the services available through the Office of Academic Accessibility here: <u>https://oaa.unca.edu/</u>

While students may disclose disability at any point in the semester, students who receive Letters of Accommodation are strongly encouraged to request, obtain and present these to their professors as early in the semester as possible so that accommodations can be made in a timely manner. It is the student's responsibility to follow this process each semester.

Sexual Harassment and Misconduct

All members of the University community are expected to engage in conduct that contributes to the culture of integrity and honor upon which the University of North Carolina at Asheville is grounded. Acts of sexual misconduct, sexual harassment, dating violence, domestic violence and stalking jeopardize the health and welfare of our campus community and the larger community as a whole and will not be tolerated. The University has established procedures for preventing and investigating allegations of sexual misconduct, sexual harassment, dating violence, domestic violence and stalking that are compliant with Title IX federal regulations. To learn more about these procedures or to report an incident of sexual misconduct, go to <u>titleix.unca.edu</u>. Students may also report incidents to an instructor, faculty or staff member, who are required by law to notify the Title IX Office.

Academic Alerts

Faculty at UNCA are encouraged to use the university's Academic Alert system to communicate with students about their progress in courses. Academic Alerts can reflect that a student's performance is satisfactory at the time the alert is submitted, or they can indicate concerns (e.g., academic difficulty, attendance problems, or other concerns). Professors use the alert system because they are invested in student success and want to encourage open conversations about how students can improve their learning, and students who respond to alerts quickly are consistently more likely to earn credit for the course. Please note, professors of 100-level courses are required to submit at least one alert about each student on or before the seventh week of classes.

When a faculty member submits an alert that expresses a concern, the student receives an email from Academic Advising notifying them of the alert and subsequent registration hold on their account. To clear the hold, the student must complete a short Google Response Form included in the alert e-mail; the results will be shared with their instructor and advising staff. Instructors may also request to meet with the student to discuss the alert.

Questions about the Academic Alert system can be directed to Anne Marie Roberts (<u>amrober1@unca.edu</u>) in OneStop Advising and Learning Support.

University Writing Center

The University Writing Center (UWC) supports writers in one-on-one sessions lasting 10 to 45 minutes. Consultants can help writers organize ideas, document sources, and revise prose. If you visit the UWC, bring a copy of your assignment, any writing or notes you may have, and the sources you are working with. Make an appointment by visiting <u>writingcenter.unca.edu</u> and clicking on "Schedule an Appointment," or drop in during open hours Monday-Friday.

Academic Integity

As a community of scholars dedicated to learning and the pursuit of knowledge, UNC Asheville relies on the honesty and academic integrity of all the members of its community. Any act of plagiarism, cheating, or use of unauthorized materials or assistance is academic dishonesty. A person who knowingly assists another in academic dishonesty is likewise guilty of dishonesty. A student committing a first offense of dishonesty will receive a failing grade or a grade of zero for the assignment or test. A student committing a second offense of dishonesty will receive a failing grade in the course and be reported to the Senior Director of Student Success.

In all situations where a student has been disciplined for academic dishonesty, the instructor must submit a brief statement of the case to the Senior Director of Student Success with a copy to the student. The Senior Director maintains records of academic dishonesty incidents and notifies the instructor when a student is found to have multiple offenses. Depending upon the severity and/or repetition of the offense, the Senior Director and/or instructor may recommend that the Provost impose an additional penalty, such as cancellation of graduation with honors, cancellation of scholarships, or dismissal from the university. If the Provost decides that additional penalties are warranted, the student will be notified in writing.

If a student feels that he or she has been unjustly accused of academic dishonesty, the student has ten (10) class days from the date of the instructor's written notification to the student to respond in writing. This response is to be sent to both the instructor and the Senior Director of Student Success. The instructor should then meet with the student to discuss the charges within five (5) class days. If needed, the student may then contact the Senior Director for assistance in identifying options for possible resolution. If needed, the Faculty Conciliator will be contacted to mediate and/or convene the Academic Appeals Board.