

ATMS 103.02 Introduction to Meteorology

FALL 2020

What is all about this course?

It is to study weather variables and systems, atmospheric processes, global circulation, and severe weather. This course fulfills the Scientific Perspectives requirement in UNCA Liberal Arts Core (LAC) curriculum. This course is required for meteorology majors and minors. There is no prerequisite for this 3 credit hours course. In fall 2020, this course is totally ONLINE, please check Moodle for contents.

Who is the instructor?

Dr. Huo-Jin (Alex) Huang, RRO 236B
Dept. of Atmospheric Sciences, UNCA
e-mail: ahuang@unca.edu
<http://www.atms.unca.edu/ahuang>

What is the structure of the course?

- Online PowerPoint Lectures/videos
- Online assignments
- Quizzes on Moodle
- Online tests
- **Check out Moodle Daily**



Virtual Office Hours using Zoom:

3—4 pm, Tuesdays and Thursdays
(or communicating by e-mail and set an online appointment)

When and Where do we meet?

9:55 — 11:10 am, Tuesdays, Thursdays ONLINE USING Zoom

Textbook:

Weather: A Concise Introduction (2018)
Alternative Textbook: Practical Meteorology (2017) downloadable at
https://www.eoas.ubc.ca/books/Practical_Meteorology/

How will you be graded?

- Online Moodle Quizzes: 30%;
- Online Assignments: 20%
- Mid-term Test: 20%;
- Final Exam: 25%;
- Online Participation: 5%.



<http://www.weather.gov/jetstream/>

How can you succeed in this course?

- Active learning
- Complete online assignments/quizzes/tests
- Read materials
- Talk to Instructor
- Ask questions
- Form a study group
- Think, review, connect
- Choose right friends
- Be Healthy, Stay Safe
- **Check out Moodle daily!**



Grade Scale (100%)

A \geq 93; A-: 92.5-90;
B+: 89.5-87; B: 86.5-83; B-: 82.5-80;
C+: 79.5-77; C: 76.5-73; C-: 72.5-70;
D+: 69.5-67; D: 66.5-60; F: \leq 59.5.



Exam Dates:

Mid-term Test: by midnight, 9/29;
Final Exam: by midnight, 11/19/2020.



The best way to contact the instructor anytime? By e-mail to ahuang@unca.edu

ATMS 103.002 COURSE OUTLINE

WEEK	DAY	DATES	SUBJECTS	Chapter(s)
1	Tuesday	8/11	Weather Variables	1
	Thursday	8/13	Weather Variables	1
2	Tuesday	8/18	Weather Data and Weather Maps	2
	Thursday	8/20	Weather Data and Weather Maps	2
3	Tuesday	8/25	Our Atmosphere	3
	Thursday	8/27	Our Atmosphere	3
4	Tuesday	9/1	Heat and Energy Transfer	4
	Thursday	9/3	Heat and Energy Transfer	4
5	Tuesday	9/8	Water	5
	Thursday	9/10	Water	5
6	Tuesday	9/15	Water	5
	Thursday	9/17	Cloud Formation	6
7	Tuesday	9/22	Cloud Formation	6
	Thursday	9/24	Stability	6
8	Tuesday	9/29	Mid-term Test, NO CLASS	
	Wednesday	9/30	Breathing day. NO CLASS	
	Thursday	10/1	Stability, Precipitation	6, 7
9	Tuesday	10/6	Wind	8
	Thursday	10/8	Wind	8
10	Tuesday	10/13	Wind	8
	Thursday	10/15	Global Wind Systems	9
11	Tuesday	10/20	Air Masses, Fronts, and Midlatitude Cyclones	10
	Thursday	10/22	Air Masses, Fronts, and Midlatitude Cyclones	10
12	Tuesday	10/27	Thunderstorms	11
	Thursday	10/29	Thunderstorms	11
13	Tuesday	11/3	Tornadoes	11
	Thursday	11/5	Tropical Cyclones	12
14	Tuesday	11/10	Weather Forecasting	13
	Thursday	11/12	Climate Change and Weather	15
15	Tuesday	11/17	Final Exam (8 am—11 pm, 2 hours limit)	
16	Wed—Sun	11/25—29	Thanksgiving Holidays	

Student Learning Outcomes: Upon completing this course successfully, you should be able to:

- learn definitions and applications of atmospheric variables;
- understand the processes, feedback, and interactions within the atmosphere;
- comprehend the global aspects of weather;
- appreciate the beauty, significance, and fragility of the nature;
- learn scientific inquiries, logics, and approaches to environmental issues;
- develop his/her scientific common sense;
- enhance his/her own understanding and reasoning about environmental issues; and
- cultivate his/her curiosity and life-long learning.



Special Remarks: Your online presence is strongly recommended. You are solely responsible for the consequences due to your absence. No extension or make-up quizzes/tests will be given. An exception may be granted for uncontrollable circumstances and medical reasons. You have to consult with the instructor at your earliest convenience for exceptions. A **significant** reduction of your score on your late assignments may be applied. You will receive an F for the semester if you miss more than 5 online quizzes and assignments without any justifiable and excusable reasons. No smartphones or other operational electronic devices are allowed during the online class period except for internet connection and educational purposes.



Academic Integrity: Individual honesty and responsibility are expected, and academic integrity is enforced. Any act of plagiarism or cheating is academic dishonesty. A person who knowingly assists another in cheating is likewise guilty of cheating. According to the instructor's view of the gravity of the offense, a student may be punished by a failing grade or a grade of zero for the assignment or test, or a failing grade in the course. If it seems warranted, the instructor may also recommend to the Provost dismissal or other serious university sanction. Please review the procedures outlined in Section 8.3 of the UNCA Faculty Handbook (<http://www3.unca.edu/aa/handbook/8.htm>) that relate to academic dishonesty.



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 academicaccess@unca.edu; use this link <https://uncaoaaintake.youcanbook.me/>; 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: <https://oaa.unca.edu/>

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. 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 titleix.unca.edu. Students may also report incidents to an instructor, faculty or staff member, who are required by law to notify the Title IX Office.

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AGE SEXUAL
SEXUAL ORIENTATION
STALKING ASSAULT
ETHNICITY
RELIGION BATTERY
HARASSMENT
DATING VIOLENCE RACE
POLITICAL AFFILIATION
MISCONDUCT

Understanding Academic Alerts

Faculty at UNC Asheville are encouraged to use the university's Academic Alert (AA) system. The purpose of this system is 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 AA system because they are invested in student success and want to encourage open conversations about how students can improve their performance. 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 an online Response Form included in the alert e-mail. The student's responses will be shared with the instructor and advising staff. If a student receives three or more alerts, they will need to meet with an advisor by scheduling an appointment using the online appointment service at advising.unca.edu and select 'Academic Alert Appointment' as the type of appointment. The professor may also request to meet with the student to discuss the alert. It is in the student's best interest to complete the alert process quickly, as students who do so are more likely to earn credit for the course. Failure to complete the alert process means the student won't be able to register for the next semester's classes until they have submitted the required form and completed any requested meeting requirements. Questions about the alert system can be directed to Anne Marie Roberts (amrober1@unca.edu) in the [Academic Success Center](#).

Early Alert 

Writing Center

The University Writing Center (UWC) supports writers in one-on-one sessions with student writing consultants. Consultants can help writers decipher a prompt, organize ideas, document sources, and revise prose. When you visit the UWC, bring a copy of your assignment, any writing or notes you may have, and the sources you are working with. To make an appointment, visit writingcenter.unca.edu and click on "Schedule an Appointment."

Disclaimer: This syllabus is the contract between the instructor and students. Most information will not be changed. However, the schedule may be altered due to unforeseeable circumstances impacted by the development of COVID-19 pandemic.