

**Angelo State University
GEOL 1347 Meteorology
Spring 2021**

Section 010 MWF 10:00-10:50am, Room: VIN 139



Instructor: Mrs. Jessica A. Garza, M.S.

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Office hours: Virtual Office Hours MWR 3:30pm to 5:00 pm and by apt only.

COURSE DESCRIPTION:

The course provides a through introduction to weather, clouds, atmospheric processes, ocean waves and climate that affect our world. This is an introductory, first course in meteorology for students pursuing degrees in science, engineering, technology, for teaching/education or related career fields, and for the weather enthusiast that wants to understand weather and how storms form and move. This is a non-mathematically-based course that places emphasis on the descriptive side of fundamental atmospheric principles, what the atmosphere is made of, why it is important to life, defining atmospheric air motions and cloud formations through descriptions of the various storm-types, their evolution and their impacts on society. The basics of how and why seasons occur on Earth, how the atmosphere gets and uses energy to move and how weather is forecast will be clearly and vividly provided.

Co/Pre-requisite: none.

REQUIRED MATERIALS:

- ✓ A face mask or face covering is required in class at all times.
- ✓ Scanning App for submitting work (See Blackboard course-“Gradescope Instructions”).
- ✓ TEXTBOOK: *Meteorology Today: An Introduction to Weather, Climate, and the Environment, 12th Ed C. Donald Ahrens and Robert Henson, with MindTap Access.*
- ✓ ASU email account that you check regularly
- ✓ Blackboard course site at [ASU Blackboard](#).
- ✓ Colored Pencils

ATTENDANCE POLICY

Please refer to this [Health and Safety web page](#) for updated information about campus guidelines as they relate to the COVID-19 pandemic.

Statement for Synchronous Remote Sessions

To maintain academic quality while accommodating social distancing needs this semester, this course will use a split delivery model that combines face-to-face teaching with remote instruction.

The goal is to provide face-to-face instruction to students who want to return to campus, while also allowing students who may need to learn remotely to participate via virtual class sessions.

How Does It Work?

Your class will be divided, and you will be placed into a smaller group of students to maintain physical distancing requirements in our assigned classroom space.

Your assigned group will receive a schedule of in-person class meetings. This schedule is not flexible. For instance, if you are supposed to attend class on a Monday, you cannot elect to go on Wednesday with another class group instead.

When you are not in the physical class, you will be expected to participate online by completing the assigned work posted on Blackboard. Of the assigned work given, at least one of the assigned items need to be completed on that day for attendance purposes.

All students are required to attend synchronous Friday lectures at our designated classtime via Blackboard Collaborate.

Attendance and possible quizzes will be completed within the first 5 mins of all lecture meetings. You are expected to attend all scheduled class meetings. Missed lecture activity points CANNOT be made up. Please inform me well ahead of time if you will need to be absent for any reason including religious holidays. NOTE: You are NOT automatically dropped if you stop attending class.

How will class attendance work?

- You are required to have completed the health screening prior to attending lecture. If you are flagged as potentially having COVID you will not be allowed to attend class in-person.
- You will be required to wear face masks and maintain a 6 ft distance from others in class at all times.
- You will be required to sanitize your work station.
- NOTE: You are NOT automatically dropped if you stop attending class. So, if you want to drop the class you must do it through Rampart.

What if I'm sick?

- If you are sick (with anything, not just COVID), you are required to stay home. Rest, relax, drink plenty of fluids.
- I **WILL** require a note from a doctor stating that you were ill when you are able to return to lab. You can get this from your regular doctor or from the [ASU Health Clinic](#)ⁱ.
- Please email me to let me know if you aren't feeling well so that we can make arrangements.

What if I have a pre-existing condition or simply don't feel safe attending in-person classes?

- You may elect to complete this class entirely online.
- You do NOT have to give me any reason for wanting to attend online. Simply, tell me you plan to attend online only.
- There will not be **ANY** penalties for choosing to attend entirely online. I respect your choice in this matter and will do my utmost to make sure you have as close to the same experience as any other classmate as I can.
- You may also elect at **ANY** time to change to an online only format. No questions asked. Simply notify me by email so that I know why you disappeared from class.

CLASS SETTING

- All persons must complete wellness self-screening prior to entering the classroom
- Face coverings are required for students in the classroom
- Faculty may opt to remove their face covering while lecturing, provided they remain at least 6 ft away from all students
- Surfaces (tables and chairs) will be wiped down by students prior to use
- The classroom seating arrangement should allow 6 ft separation between persons
- Seating charts must be used for contact tracing purposes
- Attendance must be taken each class meeting for contact tracing purposes

STUDENT LEARNING OUTCOMES: This course is designed to familiarize the student with the processes, principles, and theories involved in Meteorology. Learning outcomes will be evaluated by homework, lab assignments, quizzes, and exams. At the end of this course, the student will be able to:

- 1) Analytically examine the phenomena of the solar and terrestrial radiation and understanding the energy transfer by radiation, conduction, and convection, and explain the factors that determine the transport of solar energy over the Earth's surface and describe global distribution of temperature.
- 2) Identify and understand clouds and storms of all types and optical features in the atmosphere. The formation of cumulonimbus vs. stratus clouds, the development of mid-latitude cyclones vs. tropical cyclones, and the tropospheric variables that effect these meteorological structures will be explored.
- 3) Describe fundamental concepts, theories and physical laws relevant to how the atmosphere we live in operates. Such topics will include the laws of thermodynamics, conservation of mass, the hydrologic conceptual model, and the wave cyclone theory.
- 4) Practice applications of weather basics which will be applied to everyday living, thus allowing the student to plan around the dynamic atmosphere's diurnal variability and understand when it is or is not life-threatening.
- 5) Have a clear understanding of how weather is forecast and why some weather quantities are far easier to forecast than others.
- 6) Acquire hands on experience with weather observations and be able to visit a National Weather Service office where forecasting is performed around the clock.
- 7) Learn specific tools to help them communicate better ideas and concepts that may be abstract to others, thus they will be able to easily share learned knowledge from this course with others.
- 8) Clearly understand our complex atmosphere and the many constantly change weather features within it.

CORE CURRICULUM STUDENT LEARNING OUTCOMES: The following list of core curriculum student learning outcomes will be met and measured during this course.

Student Learning Outcome	Assessment Method
1. Gather, analyze, evaluate, and synthesize information relevant to a question or issue.	Quizzes
2. Develop, interpret, and express ideas through effective visual communication.	Exams
3. Manipulate and analyze numerical data and arrive at an informed conclusion	Assignments
4. Manipulate and analyze observable facts and arrive at an informed conclusion	Assignments
5. Work effectively with others to support and accomplish a shared goal.	In class Exercises

LECTURE: A typical class meeting will combine lectures, discussions, group activities, multimedia presentations, and other demonstrations and activities to give you an opportunity to learn concepts in as active a manner as possible.

CELL PHONES AND OTHER ELECTRONIC DEVICES: You may use a laptop or tablet to take notes during class. Please do not disturb others with their use. Please keep all electronics on vibrate or on silence. The use of any electronic device not authorized by the instructor during a test may result in the forfeiture of your grade for that test. All electronic devices should be turned off and stored out of sight during tests.

GRADING:

Platform & Description	Category	% grade
Blackboard Assignment (s)	Online Assignment	35
Blackboard MindTap Assignments (Concept Animations)	Mindtap Assignment	25
Blackboard Midterm Exam	Midterm Exam	20
Blackboard Final Exam	Final Exam	20

There will be no make-ups for homework, in-class activities, or quizzes. Make-up exams will be given for tests ONLY under extenuating circumstances. Prior email notification is needed for a make-up exam. **NO LATE WORK ACCEPTED IN THIS COURSE.**

See Blackboard for the MindTap registration process.

GRADING SCALE: 100-90=A; 89-80=B; 79-70=C; 69-60=D; 59 and below=F

CLASS PREPARATION ASU EMAIL: Since class announcements will be routinely distributed via email and Blackboard, you will need to regularly check your ASU email account and our course Blackboard site (daily). All course correspondence will be through your ASU email account and Blackboard. ASU provides Internet and email services to you at any of the computer labs on campus. Call 942-2911 to set this up if necessary.

KNOW THE ASU HONOR CODE: Angelo State University expects its students to maintain complete honesty and integrity in their academic pursuits. Students are responsible for understanding the Academic Honor Code, which is contained in both print and web versions of the Student Handbook.

STUDENTS WITH DISABILITIES:

1. “Angelo State University is committed to the principle that no qualified individual with a disability shall, on the basis of disability, be excluded from participation in or be denied the benefits of the services, programs, or activities of the university, or be subjected to discrimination by the university, as provided by the Americans with Disabilities Act of 1990 (ADA), the Americans with Disabilities Act Amendments Act of 2008 (ADAAA), and subsequent legislation.”
2. The Office of Student Affairs is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability, and it is the student’s responsibility to initiate such a request by contacting the Office of Student Affairs, University Center, Room 112 at (325) 942-2047 or (325) 942-2211(TDD/FAX) or by e-mail at studentservices@angelo.edu to begin the process. The Office of Student Affairs will establish the particular documentation requirements necessary for the various types of disabilities. Reasonable accommodations will be made for students determined to be disabled or who have documented disabilities.

COUNSELLING SERVICES

Our mental health is just as important as our physical health, particularly now that we are being socially distant. Humans are social creatures who need contact with other people to stay mentally healthy. During this time, it is more important than ever to seek help if you need it. You can always call or email me if you need to talk about something, but I also strongly encourage you to reach out to the [ASU Counseling Services](#)ⁱⁱ, who are available for help anytime you need it. You can find them in the [University Health Clinic building](#)ⁱⁱⁱ or by calling 325-942-2371 Monday through Friday from 9am-3pm. Need help outside those hours? For emergencies call 911 or the [ASU Crisis Helpline](#)^{iv} at 325-486-6345. You can also call the ASU Crisis Helpline for non-emergency issues as well.

TITLE IX: The University prohibits discrimination based on sex, which includes pregnancy, sexual orientation, gender identity, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination including: sexual assault, sex-based discrimination, sexual exploitation, sexual harassment, public indecency, interpersonal violence (domestic violence and/or dating violence), and stalking. As a faculty member, I am a Responsible Employee meaning that I am obligated by law and ASU policy to report any allegations I am notified of to the Office of Title IX Compliance.

Students are encouraged to report any incidents of sexual misconduct directly to ASU's Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator at:

Michelle Boone, J.D.
Director of Title IX Compliance/Title IX Coordinator
Mayer Administration Building, Room 210
325-942-2022
michelle.boone@angelo.edu

You may also file a report online 24/7 at www.angelo.edu/incident-form.

If you are wishing to speak to someone about an incident in confidence you may contact the University Health Clinic and Counseling Center at 325-942-2173 or the ASU Crisis Helpline at 325-486-6345.

For more information about Title IX in general you may visit www.angelo.edu/title-ix.

INCOMPLETE GRADE POLICY: It is policy that incomplete grades be reserved for student illness or personal misfortune. Please contact faculty if you have serious illness or a personal misfortune that would keep you from completing course work. Documentation may be required. See ASU Operating Policy 10.11 [Grading Procedures](#) for more information.

STUDENT ABSENCE FOR OBSERVANCE OF RELIGIOUS HOLY DAYS: A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. See ASU Operating Policy 10.19 Student Absence for [Observance of Religious Holy Day](#) for more information.

ACADEMIC INTEGRITY: Students are expected to maintain complete honesty and integrity in all work. Any student found guilty of any form of dishonesty in academic work is subject of disciplinary action and possible expulsion from ASU. The College of Science and Engineering adheres to the Statement of [Academic Integrity](#)

PLAGIARISM: Plagiarism is a serious topic covered in ASU's [Academic Integrity policy](#) in the Student Handbook. Plagiarism is the action or practice of taking someone else's work, idea, etc., and passing it off as one's own. Plagiarism is literary theft. In your discussions and/or your papers, it is unacceptable to copy word-for-word without quotation marks and the source of the quotation. It is expected that you will summarize or paraphrase ideas giving appropriate credit to the source both in the body of your paper and the reference list. Papers are subject to be evaluated for originality via Turnitin. Resources to help you understand this policy better are available at the [ASU Writing Center](#).

COPYRIGHT POLICY: Students officially enrolled in this course should make only one printed copy of the given articles and/or chapters. You are expressly prohibited from distributing or

reproducing any portion of course readings in printed or electronic form without written permission from the copyright holders or publishers.

REQUIRED USE OF MASKS/FACIAL COVERINGS BY STUDENTS

As a member of the Texas Tech University System, Angelo State University has adopted the mandatory [Facial Covering Policy](#)^v to ensure a safe and healthy classroom experience. Current research on the COVID-19 virus suggests there is a significant reduction in the potential for transmission of the virus from person to person by wearing a mask/facial covering that covers the nose and mouth areas. Therefore, in compliance with the university policy students in this class are required to wear a mask/facial covering before, during, and after class. Faculty members may also ask you to display your daily screening badge as a prerequisite to enter the classroom. You are also asked to maintain safe distancing practices to the best of your ability. For the safety of everyone, any student not appropriately wearing a mask/facial covering will be asked to leave the classroom immediately. The student will be responsible to make up any missed class content or work. Continued non-compliance with the Texas Tech University System Policy may result in disciplinary action through the Office of Student Conduct.

MODIFICATIONS TO THE SYLLABUS

This syllabus, including grade evaluation and course schedule, is subject to modification. In particular, the COVID-19 pandemic may require significant changes in course delivery and content on potentially short notice.

The faculty member reserves the option to make changes as necessary to this syllabus and the course content. If changes become necessary during this course, the faculty will notify students of such changes by email, course announcements and/or via a discussion board announcement. It is the student's responsibility to look for such communications about the course on a daily basis.

GENERAL POLICIES RELATED TO THIS COURSE: All students are required to follow the policies and procedures presented in these documents:

- [Angelo State University Student Handbook](#)
- [Angelo State University Catalog](#)

GEOLOGIC EXHIBITION ORGANIZATION (GEO):

GEO, the student organization of all interested in geology (not just majors/minors), meets almost every Wednesday @ 6:00PM. GEO is a student chapter of the [American Association of petroleum Geologists](#). Sigma Gamma Epsilon, the national honor society of the earth sciences is related to GEO.

YOU CAN MAJOR OR MINOR IN GEOLOGY @ ASU! See the [BS in Geoscience requirements](#).

A Geology Minor requires 18 hours of geology courses. Good and rewarding careers exist for geologists, geophysicists, hydrogeologists, secondary science teachers, and petroleum engineers.

FINAL NOTE:

It is my goal to make this class both interesting and informative for you. With a reasonable amount of effort, it should be possible for everyone to meet the course objectives and earn a passing grade. With additional effort, aptitude, and investment of time, students may earn even higher course grades. If at any time you run into difficulties with the material, or need assistance or clarification, please do not hesitate to ask for help. I am here for you, and I will be glad to entertain any reasonable requests.

SCHEDULE: All information is subject to change. Please refer to our class schedule and course outline on Blackboard.

ⁱ <https://www.angelo.edu/content/profiles/2519-health-clinic/Templates/profiles-office-directory>

ⁱⁱ <https://www.angelo.edu/services/counseling/>

ⁱⁱⁱ <https://www.angelo.edu/map/?Counseling%20Services>

^{iv} <https://www.angelo.edu/services/counseling/crisishelpline.php>

^v <http://www.texastech.edu/downloads/ttus-policy-face-coverings.pdf>

