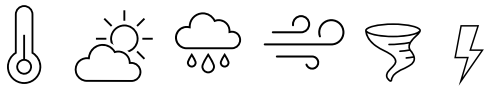
Angelo State University
GEOL 1347 Meteorology
Spring 2022
Section D10, D20 Online



College of Science & Engineering

Our Course

Instructor: Mrs. Jessica A. Garza, M.S.
Email: Jessica.garza@angelo.edu
Office hours: Contact me to set up a convenient time to meet (very flexible with virtual office hour meetings).

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:

- ✓ 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
- ✓ Possibly: Scanning App for submitting work (See Blackboard course-"Gradescope Instructions").

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.	Group Project

COURSE WORK: Course work combines 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. See Blackboard for the MindTap registration process. Also see the "Getting Started Page" in Blackboard for a breakdown of your (1) weekly tasks, (2) information about the items that are due each week, and (3) what you should do to start the course.

GRADING:

Mindtap Assignments	20%
Blackboard Assignments	26%
Blackboard Quizzes	26%
Midterm Exam	10%
Final Exam	25%
Group Project	6%

NO LATE WORK ACCEPTED IN THIS COURSE.

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

CLASS PREPARATION ASU EMAIL & BLACKBOARD: 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.

General Policies

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

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.

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.

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.

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.

DROP DATE: April 28, 2022 is the last day to drop/withdraw, Regular Term, Spring 2022. The appropriate form must be submitted by 5:00 p.m. Central Time.

INFORMATION ABOUT COVID-19: Please refer to ASU's COVID-19 (Coronavirus) Updatesi web page for current information about campus guidelines and safety standards as they relate to the COVID-19 pandemic.

ASU Assistance

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.

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.

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.

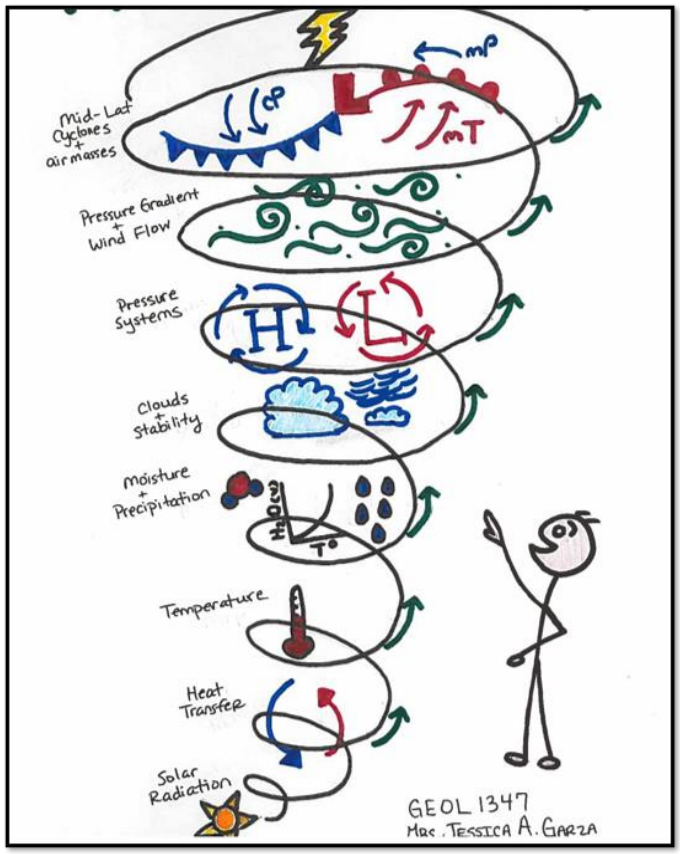
Our Course Continued

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.

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.

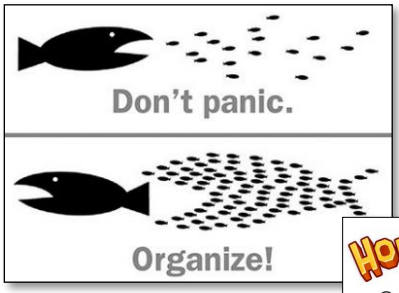
YOU CAN MAJOR OR MINOR IN GEOLOGY @ ASU! See the BS in Geoscience requirements. A Geology Minor requires 18 hours of geology courses. Good and rewarding careers exist for geologists, geophysicists, hydrogeologists, secondary science teachers, and petroleum engineers.

GRAPHIC SYLLABUS:



MY 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.



https://blackboard.angelo.edu/

[i] https://www.angelo.edu/current-students/student-handbook/

[i] https://www.angelo.edu/academics/catalog/

[i] https://www.angelo.edu/live/files/27603-student-handbook-2020-21#page=97

[i] https://www.angelo.edu/current-students/disability-services/

[i] https://angelo.policystat.com/policy/10659448/latest/

[i] https://www.angelo.edu/live/files/27603-student-handbook-2020-21#page=97

[i] https://www.angelo.edu/current-students/writing-center/academic_honesty.php

[i] https://angelo.policystat.com/policy/10659368/latest/

[i] https://www.angelo.edu/incident-form

[i] https://www.angelo.edu/title-ix

[i] https://www.angelo.edu/covid-19/