



Dual Credit Geology 1402

Course Syllabus: Spring 2026

“Northeast Texas Community College exists to provide personal, dynamic learning experiences empowering students to succeed.”

Instructor: Tammie Tigert

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Office	Monday	Tuesday	Wednesday	Thursday	Friday	Online
Hours	8:05-8:55	8:05-8:55	8:05-8:55	8:05-8:55	8:05-8:55	8:05-8:55

This syllabus serves as the documentation for all course policies and requirements, assignments, and instructor/student responsibilities.

Information relative to the delivery of the content contained in this syllabus is subject to change. Should that happen, the student will be notified.

Course Description: 4 credit hours. This course is an extension of the study of geology, astronomy, meteorology oceanography, focusing on natural resources, hazards, and climate variability.

Prerequisite(s): None

Student Learning Outcomes:

Upon successful completion of this course, students will:

1. Identify the influence of geologic and hydrologic processes on Earth’s surface.
2. Describe the causes and effects of tectonic, meteorological, oceanographic, and astronomical hazards.
3. Relate climate change to changes in tectonic configurations, astronomical relationships, and atmospheric composition.
4. Discuss potential effects of climate variability on Earth systems, including biological systems.

5. Recognize how scientific models represent an abstraction of complex systems, such as ocean circulation and climate variability.
6. Describe natural resources used by humans and their occurrence and extraction.
7. Discuss the effects of renewable and nonrenewable resource development and sustainability.
8. Locate on maps and/or photographs localities susceptible to tectonic, meteorological, and oceanographic hazards.
9. Discuss methods of hazard prevention and mitigation such as early warning techniques, construction methods, and civil planning.
10. Describe contributing factors to past and current climate change.
11. Analyze effects of climate variability on geological and biological systems.
12. Analyze diverse sources of data that document climate variability such as ice cores, dendrochronology, fossils, and pollen.
13. Relate the distribution of fossil fuel, metal and nonmetal resources to geologic processes.
14. Describe the methods of extraction of natural resources and their effect on the environment.
15. Describe renewable resources and methods of sustainability.

Evaluation/Grading Policy:

Course Work 25% of final course grade

Tests, Select Labs, & Exams 75% of final course grade

Required Instructional Materials: None

Publisher: McGraw Hill The Good Earth 5th Ed. **ISBN Number:** 978-1-260-57063-2

Optional Instructional Materials: None

Minimum Technology Requirements: None

Required Computer Literacy Skills: Minimum

Course Structure and Overview: Students will learn content through a variety of ways such as: text readings, educational videos, group activities, research, and many online labs and hands-on lab experiences.

Communications: Turnaround time for email responses or Remind messages will be within 24 hours.

Institutional/Course Policy:

Student attendance is critical. **The last day to drop with a “W” is Thursday April 19, 2026**

It is the student’s responsibility to withdraw by that date if they are not able to complete the course. Failure to do so WILL result in a grade of “F” for the semester.

Late assignments may be accepted but with points deducted.

Alternate Operations During Campus Closure and/or Alternate Course Delivery Requirements:

In the event of an emergency or announced campus closure due to a natural disaster or pandemic, it may be necessary for Northeast Texas Community College to move to altered operations. During this time, Northeast Texas Community College may opt to continue delivery of instruction through methods that include, but are not limited to, online through the Blackboard Learning Management System, online conferencing, email messaging, and/or an alternate schedule. It is the responsibility of the student to monitor NTCC’s website (<http://www.ntcc.edu/>) for instructions about continuing courses remotely, Blackboard for each class for course-specific communication, and NTCC email for important general information. Additionally, there may be instances where a course may not be able to be continued in the same delivery format as it originates (face-to-face, fully online, live remote, or hybrid). Should this be the case, every effort will be made to continue instruction in an alternative delivery format. Students will be informed of any changes of this nature through email messaging and/or the Blackboard course site.

Statement Regarding the Use of Artificial Intelligence (AI) Technology:

Employees and students shall be permitted to explore artificial intelligence (AI) and implement its use in and out of the classroom in accordance with policy and administrative regulations. The use of AI shall only be as a support tool to enhance student outcomes or as necessary to engage in research and shall never take the place of faculty, staff, and student decision-making. Any use of AI must comply with law, policy, and administrative regulations relating to student and employee privacy and data security. A student shall only use AI tools with

faculty permission and shall be expected to produce original work and properly credit sources, including AI tools used in creating the work.

Employees or students who use AI tools to deceptively harm, bully, or harass others shall be disciplined in accordance with policy. [See DH, DIA series, FFD series, FFE, FLB, and the FM series] AI Use by Employees and Students. Northeast Texas Community College 225500 TECHNOLOGY RESOURCES CRB ARTIFICIAL INTELLIGENCE (LOCAL) DATE ISSUED: 12/8/2025 1 of 1 UPDATE 50 CRB(LOCAL)-AJC Adopted: 12/16/2025

NTCC Academic Honesty/Ethics Statement:

NTCC upholds the highest standards of academic integrity. The college expects all students to engage in their academic pursuits in an honest manner that is beyond reproach using their intellect and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. Academic dishonesty such as cheating, plagiarism, and collusion is unacceptable and may result in disciplinary action. This course will follow the NTCC Academic Honesty and Academic Ethics policies stated in the Student Handbook. Refer to the student handbook for more information on these subjects.

ADA Statement:

It is the policy of NTCC to provide reasonable accommodation for qualified individuals who are students with disabilities. This College will adhere to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodation as required to afford equal educational opportunity. It is the student's responsibility to request accommodation. An appointment can be made with the Academic Advisor/Coordinator of Special Populations located in Student Services and can be reached at 903-434-8264. For more information and to obtain a copy of the Request for Accommodations, please refer to the special populations page on the NTCC website.

Family Educational Rights and Privacy Act (FERPA):

The Family Educational Rights and Privacy Act (FERPA) is a federal law that protects the privacy of student education records. The law applies to all schools that receive funds under an applicable program of the U.S. Department of Education. FERPA gives parents certain rights with respect to their children's educational records. These rights transfer to the student when he or she attends a school beyond the high school level. Students to whom the rights have transferred are considered "eligible students." In essence, a parent has no legal right to obtain information concerning the child's college records without the written consent of the student. In compliance with FERPA, information classified as "directory information" may be released to the general public without the written consent of the student unless the student makes a request in writing. Directory information is defined as: the student's name, permanent address and/or local address, telephone listing, dates of attendance, most recent previous education institution attended, other information including major, field of study, degrees, awards received, and participation in officially recognized activities/sports.