

DUAL CREDIT 2024 Spring 2024 GEOL1402.056DC

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INTRODUCTION TO EARTH SCIENCE II DUAL CREDIT

Como-Pickton High School

Course Syllabus: SPRING 2024

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

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no on campus office

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Office	Monday	Tuesday	Wednesday	Thursday	Friday	Online
Hours	7th period 1:57pm- 2:44pm	24/7				

The information contained in this syllabus is subject to change without notice.

Students are expected to be aware of any additional course policies presented by the instructor during the course.

COURSE DESCRIPTION: Lecture: Extension of the study of geology, astronomy, meteorology and oceanography, focusing on natural resources, hazards and climate variability. Lab: Activities will cover methods used to collect and analyze data in geology, meteorology, oceanography, and astronomy.

CREDITS: SCH = 3 lecture and 1 laboratory hour per week, from approved course list

TSI REQUIREMENT: n/a

PREREQUISITE(S): none

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REQUIRED TEXTBOOK AND MATERIALS: The Good Earth, 5e, by
 McConnell & Steer; ISBN 978-1-260-46629-4/MCCONNELL / THE
 GOOD EARTH: INTRO TO EARTH SCIENCE DIGITAL TEXT
 W/CONNECT (+Proctorio) \$96.00

Laptop or computer

Printer access (helpful but not required)

Access to high speed daily internet

Microsoft Office 365 (available as a free download for all NTCC students)

Required Computer Literacy Skills:

Ability to use a web browser to access NTCC Blackboard System for course information, eBook and McGraw Hill Connect

Ability to access NTCC student email system and communicate professionally and competently with instructor.

Ability to create and complete Word documents, save on your computer and upload into Bb assignment links if necessary.

Course Goals and/or Objectives:

Lecture: Learning Outcomes Upon successful completion of this course, students will:

Recognize how scientific models represent an abstraction of complex systems, such as ocean circulation and climate variability.

- Describe natural resources used by humans and their occurrence and extraction.
- Discuss the effects of renewable and nonrenewable resource development and sustainability.
- Discuss potential effects of climate variability on Earth systems, including biological systems.
- Identify the influence of geologic and hydrologic processes on Earth's surface.
- Relate climate change to changes in tectonic configurations, astronomical relationships and atmospheric composition.
- Describe the causes and effects of tectonic, meteorological, oceanographic, and astronomical hazards.
- Locate on maps and/or photographs localities susceptible to tectonic, meteorological, and oceanographic hazards.
- Discuss methods of hazard prevention and mitigation such as early warning techniques, construction methods, and civil planning.
- Describe contributing factors to past and current climate change.
- Analyze effects of climate variability on geological and biological systems.
- Analyze diverse sources of data that document climate variability such as ice cores, dendrochronology, fossils, and pollen.
- Relate the distribution of fossil fuel, metal and nonmetal resources to geologic processes.
- Describe the methods of extraction of natural resources and their effect on the environment.
- Describe renewable resources and methods of sustainability.

College Student Learning Outcomes:

Critical Thinking Skills

CT.1

Students will demonstrate the ability to 1) analyze complex issues, 2) synthesize information, and 3) evaluate the logic, validity, and relevance of data.

Communication Skills

CS.1

Students will effectively develop, interpret and express ideas through written communication.

Empirical and Quantitative Skills

EQS.1

Students will manipulate numerical data or observable facts by organizing and converting relevant information into mathematical or empirical form.

EQS.2

Students will analyze numerical data or observable facts by processing information with correct calculations, explicit notations, and appropriate technology.

Team Work

TW2. Students will work with others to support and accomplish a shared goal.

GEOL 1302 Student Learning Outcomes:

1. Gain critical thinking skills while working on and completing methods such as Venn, diagrams, rubrics and concepts maps

2. Gain awareness of geological events, weather and climate patterns and oceanic circulation on a global scale and understand/evaluate why events/features occur where they do. Assessment of your awareness is done through various homework assignments.

3. Gain knowledge of geological, meteorological, astronomical and oceanic features and processes through videos, documentary summaries, exams, and homework.

These learning outcomes will be assessed throughout the course and on the final exam.

**COURSE SCHEDULE:
NTCC GEOL 1402 SPRING 2024 EARTH
SCIENCE I FOR NON-SCIENCE MAJORS**

Week	Topics
Week One: January 21-24	Course Welcome and Introduction
Week Two: January 27-31	Weathering and Soils
Week Three: February 3-7	Weathering and Soils II
Week Four: February 10-14	Landslides and Slope Failure, Test One
Week Five: February 17-21	Streams and Floods
Week Six: February 24-28	Groundwater and Wetlands, Test Two
Week Seven: March 3-7	Metric Conversions
Week Eight: March 10-14	Midterm Exam
Week Nine: March 24-28	The Atmosphere
Week 10: March 31-April 4	The Atmosphere II
Week 11: April 7-11	Weather Systems, Test Three
Week 12: April 14-18	Global Climate Change
Week 13: April 21-25	Global Climate Change II, Test Four
Week 14: April 28-May 2	Letter to President Project
Week 15: May 5-9	
Final Exam Week	Final Exam

Evaluation/Grading Policy: This course will consist of Discussion Questions, Movie Night questions, Homework assignments, Quizzes, laboratory exercises, 4 tests and a Midterm and Final exam with the following weight in calculating final course average:

Method of Evaluation: Lecture Average 75% of final course grade

Lab Average 25% of final course grade

The "lecture" component of this course will consist of on line discussion questions, online chapter quizzes, online Movie Night questions, a group Scientific Inquiry Project, 4 online tests, and a Midterm and Final Exam with the following weights in calculating the final lecture average:

20% Discussion questions, chapter quizzes, homework and movie questions

25% Tests 1-4

15% Midterm Exam

15% Final Exam

The "lab" component of this course will consist of online laboratory exercises and instructor-provided activities:

25% online and hands-on laboratory exercises, quizzes and instructor-provided lab "activities"

CLASS ATTENDANCE: Your online activity within the course will be monitored throughout the session. Participation and staying current in the course will be considered during final grade evaluation.

GENERAL POLICIES AND PROCEDURES:

Due Dates and Deadlines: The deadline for turning in all assignments, tests, and quizzes will be 11:59pm on the due date. This deadline does not apply to the Midterm or Final Exam. Due dates for all assignments in this course can be found in the Start Here Folder.

This is a DUAL CREDIT course so lecture will be face to face as well as lab activities, tests and quizzes; however, Discussion Questions, Movie Night Questions and Homework will require your time outside of class.

Assignments are due weekly; thus, keeping up with the schedule is essential to your success. Your personal schedule must allow you to keep up with the due dates for the assignments. **Late work is not allowed in this course**

EXTRA CREDIT IS

NOT OFFERED IN THIS COURSE.

Technical Difficulties: **Technical issues with your computer/tablet/smart phone/internet/wifi are not an excuse to miss deadlines. This is why assignments should not be put off until near the deadline.**

The following items reflect your grading criteria and must all be completed and submitted via Blackboard:

- ▶ **DISCUSSION QUESTIONS:** Each chapter/topic opens with a set of discussion questions to help you connect what you already know with the new content in the chapter, as well as read other students' experiences and responses. It will be your responsibility to make your initial response to the

Discussion Questions (worth 70 points out of 100) before midnight on the ◆unday before we start each new chapter. You will be required to respond to 2 other students' posts before midnight the following Saturday (each post worth 15 points). If you make your initial response to the post but timely complete your response to other students' posts on Friday, I will accept the assignment submission, but it will have a 20 point late deduction. If you make your initial response to the discussion questions AFTER the due date for all responses, then I will not accept the submission of your discussion questions and it will be considered late (no credit).

- ▶ **MOVIE NIGHT QUESTIONS** : Each chapter covered in this course includes a related video to watch with associated "Movie Night" questions. These movie night questions will always be due on Saturday Nights. All but one of the questions are multiple-choice, and are simply answered by watching and listening to the movie. I provide a printable copy of the questions for your convenience if you have printer access, but you will need to turn in your answers through the electronic submission of movie questions. You have 2 attempts for this type of activity and the highest grade will be recorded. After watching the video you will be asked to write a paragraph that describes what you learned or things you found most interesting about the video and why, so be prepared to think about how you will answer that as you watch the video. Your answer to the last question is worth **30 points** so please provide at minimum a 6 sentence paragraph with correct spelling, punctuation, and grammar for your answer, and be sure to provide specific information from the video. **Late submissions of the Movie Night Questions will not be accepted.**
- ▶ **LABORATORY ASSIGNMENTS/ACTIVITIES** - Online laboratory assignments/activities will be completed weekly during the course and you will be provided with adequate class time for the lab portion of the activity. Conclusion questions to the lab activity may have to be completed outside of class as needed to stay on the course schedule but your lab paper must be turned in on Fridays before you leave campus for the weekend. All lab/activity scores will be included in your final grade. **Late lab assignments will not be accepted.**
- ▶ **HOMEWORK**: Homework will be assigned for each chapter and **must be turned in on time for full credit (no exceptions)**. Homework is always due on Saturday before midnight, and submissions will not be accepted after the due date and will be given a score of zero if turned in late. Homework is to be completed outside of class, but is open book with three attempts allowed up until the due date. 5% will be deducted from any new attempts.
- ▶ **QUIZZES** A quiz will be given at the end of each chapter on Fridays in the classroom. Quizzes must be taken by the due date and after submission, are made available as a study resource for the Tests offered in the course. Quizzes will be worth 100 points each with 2 attempts provided and will cover material presented in the associated chapter.
- ▶ **TESTS** Four tests will be given during the course in class and will always be administered on a Friday in the classroom. Test dates are set forth in the course calendar shown above in this syllabus. Tests will be worth 100 points each with one attempt provided. Tests will cover material presented in the associated chapter quiz questions from the textbook, and from the homework questions. All test scores will be included in your final grade. **Tests must be taken by the due date; no exceptions.**

IN ADDITION TO USING CONNECT FOR YOUR ASSIGNMENTS, BE ADVISED THAT FOR ALL TESTS INCLUDING THE SYLLABUS QUIZ, MIDTERM AND FINAL, YOU WILL USE MCGRAW HILL PROCTORIO. If you have never used Proctorio, please click here: <https://proctorio.com/support/setup> AS THIS WILL

BE REQUIRED TO ACCESS ANY OF THE TESTS, MIDTERM AND FINAL EXAM.

OCS **MIDTERM AND FINAL EXAMS:** The midterm and final exams are 100 questions multiple choice/true false with a 75-minute time limit and you only have one attempt. All come directly off of quizzes, Tests, and Homework. **The Midterm and Final minutes Exams must be taken by the due date; no exceptions.**

- o **Midterm Exam-The** final exam covers Chapters 1-6.
- o **Final Exam-The** final exam covers Chapters 7, 8, 13, & 16.
- o **Additional Midterm Grades information:** *NTCC instructors are required to enter midterm grades during the ninth week of the semester. Once entered, each student's mid-term grade may be viewed by College personnel with the need to monitor such information, such as student records, student financial aid, academic advising and counseling, and administrative staff.*

Note: Midterm grades can change a great deal, for the better or worse, from the time they are entered until final grades are turned in and they do not impact your GPA. They are simply a measurement the student can use to take stock in what may or may not be working at the halfway point of the course. Please contact me if you have a concern about your grades at the midterm.

Communications:

- **EMAIL:** Please check your NTCC email EVERYDAY. Email is the official form of communication used here at NTCC. All emailed questions to the instructor will be responded to within 24 hours, but usually within a few hours when possible. My instructor email address is tlubbe@ntcc.edu. So you are aware, I do NOT prefer Blackboard Messages as a means of communicating with students, so please select an alternate form of communication-email or text (see below)!
- **PHONE:** My phone # is 903-689-3671. Please feel free to text me with any course related questions. If the issue cannot be handled by text, I will set up a time to speak with you by phone or set up a Zoom/Google Meet session. **I prefer texts as opposed to emails because I generally can respond faster. Just make sure you identify yourself, name of school, and course # when you first text me. Please do not text after 8pm.**
- **ANNOUNCEMENTS:** These can be found in Blackboard under the course link on your Bb homepage. Please make sure you are reading any announcements thoroughly when they are posted there.

Student Responsibilities/Expectations:

- ▶ **It is a student's responsibility to ensure the withdrawal process is completed by the last day to withdraw date if they are not able to complete the course. Failure to do so WILL result in a grade of "F" for the semester. Your instructor will not drop you due to failing grades or lack of participation.**

NTCC Academic Honesty Statement:

"Students are expected to complete course work in an honest manner, their intellects and resources designated as allowable by the course instructor. Students are responsible for addressing questions about allowable resources with the course instructor. NTCC upholds the

This course will follow the
Academic Integrity Honesty policy stated in the Student Handbook."

ADA Statement:

It is the policy of NTCC to provide reasonable accommodations 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 accommodations as required to afford equal educational opportunity. It is the student's responsibility to request accommodations. An appointment can be made with the Academic Advisor/Coordinator of Special Populations located in the College Connection. She/he can be reached at 903-434-8218. For more information and to obtain a copy of the Request for Accommodations, please refer to the [NTCC website - Special Populations](#).

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 educational institution attended, other information including major, field of study, degrees, awards received, and participation in officially recognized activities/sports.