DAKOTA COLLEGE AT BOTTINEAU

COURSE SYLLABUS

Course Prefix/Number/Title: Geol 105/ Physical Geology online

Number of Credits: 4 semester hours

Course Description: Introduces students to geological structures, landforms, plae tectonics, mountain building, glacial activity, rocks and mineral processes. Topics of climate, watersheds and astronomy will also be discussed. The Class will provide another general education lab science course especially appropriate for liberal arts, education and civil engineering.

Pre-/Co-requisites: none

Course Objectives: By the end of the course, you should be able to: 1) Understand the relationship of our Earth with the rest of the universe. 2) Understand how the Earth works 3) Understand how and why different kinds of substances are distributed on and in our Earth 4) Know how rocks and minerals are identified 5) be familiar with different geologic structures and how they are formed 6) understand that intelligently searching for metals, sources of energy, and gems is our responsibility. In addition we will work toward the regard of the environment and understanding of geologic hazards. Travel may be necessary to understand the role of Geology in everyday life.

Instructor: Angie Bartholomay

Office Hours: by appointment

Email: angela.bartholomay@dakotacollege.edu

Lecture/Lab Schedule: TBA

Textbook(s): https://opengeology.org/textbook/

Course Requirements:
Grades will be based on total points using the following percentage system:
100-90, A; 89-80,B; 79-70,C; 69-60,D; <60%F.
Assessment methods- measurement of the expected general education outcomes will be achieved through exams, quizzes, laboratory exercises and a final project.
Exams- There will be 5 exams during the course of the semester. All exams will be worth 100 points. If you are going to miss an exam, you are expected to make it up ahead of time,
Lecture- Lecture outlines are available from the blackboard shell. The outlines can be used to guide you in the understanding of the material and assist in note taking. Be prepared and have the outlines ready for class.
Quizzes- There will be 16 quizzes due each Monday. Each chapter has note outlines, lecture videos and quizzes to help you prepare for exams.
Laboratory- The laboratory portion of the course provides an opportunity to integrate lecture concepts with observable activities. The lab kit is available through the DCB Bookstore.

Final lab project- This scavenger hunt allows you to demonstrate what you have learned throughout the semester. Final lab value is equivalent to a test score. See final lab checklist and example of how a slide should look.

Tentative Course Outline:

Lecture	Reading assignment	Lab Schedule
Week 1	Chapter #1; Understanding Science	No Lab
Week 2	Chapter #2; Plate Techtonics	Scientific Method
Week 3	Chapter #3; Minerals	Mineral Identification
Week 4	Chapter #4; Igneous processes & volcanoes Exam #1; Chapters 1-4	Igneous Rock Identification
Week 5	Chapter #5; Weathering, Erosion & Sedimentary Rocks	Sedimentary Rock Identification
Week 6	Chapter #6; Metamorphic Rocks	Metamorphic Rock Identification
Week 7	Chapter #7; Geologic Time	Geologic Time Lab
Week 8	Chapter #8; Earth History Exam #2; Chapters 5-8	
Week 9	Chapter #9; Crustal Deformation and Earthquakes	Earthquake Location Lab
Week 10	Chapter #10; Mass wasting	
Week 11	Chapter #11; Water	Flood Recurance Intervals
Week 12	Chapter #12: Coastlines Chapter #13 Deserts	
Week 13	Chapter #14: Glaciers Chapter #15 Global Climate Change	Climate
Week 14	Chapter #16; Energy and Mineral Resources	Final Lab preparation
Week 15	Our Solar System Exam #4	Solar System Lab
Week 16	Final Lab project Final Exam	

General Education Competency/Learning Outcome(s) OR CTE Competency/Department Learning Outcome(s): #1 Identifies the interrelationships between humans and their environments
Learning outcomes #1 Applies scientific methods of inquiry
Learning outcomes #3 Applies scientific information in everyday life

Relationship to Campus Focus: A greater understanding of the Earth, Earth's resources and its companions in the solar system will lead to a greater respect for the environment. Students will explore career options for their future.

Classroom Policies: All work must be done in a timely fashion. All assignments are open and have due dates. If you miss a deadline for a quiz or exam, and wish to make it up let me know so I can open it for you, missed quizzes and exams will be worth 70%. All make-up work must be completed within one week.

Student Email Policy: Dakota College at Bottineau is increasingly dependent upon email as an official form of communication. A student's campus-assigned email address will be the only one recognized by the Campus for official mailings. The liability for missing or not acting upon important information conveyed via campus email rests with the student.

Academic Integrity:
According to the DCB Student Handbook, students are responsible for submitting their own work. Students who cooperate on oral or written examinations or work without authorization share the responsibility for violation of academic principles, and the students are subject to disciplinary action even when one of the students is not enrolled in the course where the violation occurred. The Code detailed in the Academic Honesty/Dishonesty section of the Student Handbook will serve as the guideline for cases where cheating, plagiarism or other academic improprieties have occurred.

Disabilities or Special Needs:
Students with disabilities or special needs (academic or otherwise) are encouraged to contact the instructor and Disability Support Services.

Title IX:
Dakota College at Bottineau (DCB) faculty are committed to helping create a safe learning environment for all students and for the College as a whole. Please be aware that all DCB employees (other than those designated as confidential resources such as advocates, counselors, clergy and healthcare providers) are required to report information about such discrimination and harassment to the College Title IX Coordinator. This means that if a student tells a faculty member about a situation of sexual harassment or sexual violence, or other related misconduct, the faculty member must share that information with the College's Title IX Coordinator. Students wishing to speak to a confidential employee who does not have this reporting responsibility can find a list of resources on the DCB Title IX webpage.

AI Student Policy:
Unless otherwise indicated in the course syllabus, or in individual instructions for course assignments, or in the absence of the express consent of the course instructor, students are not allowed to utilize generative AI to help produce any of their academic work. Any violation of this policy will be considered an act of academic dishonesty as outlined within the Dakota College Code of Student Life.

RESPONSIBILITIES

Students	• Responsible to follow the syllabus and assignment instructions regarding use of generative AI for all academic work. • Obtain permission of the instructor prior to the use of generative AI that is outside of the syllabus or assignment instructions. Provide appropriate rationale for how the use of generative AI will enhance the learning experience for the assignment. • In instances where generative AI is permissible, appropriately cite the generative AI program used and indicate where in the assignment it was used, in a brief submission statement.
Faculty	• Determine if the use of generative AI could enhance student learning in any assignment of project. • Clearly indicate in all course syllabi if generative AI is allowable for any academic work. • If allowable, give specific parameters for how and when generative AI may be used. • If a violation of generative AI for the individual course/syllabus is suspected, discuss the concern with the student. If violation is still suspected, inform the appropriate semester coordinator/program director.