

Dakota College at Bottineau Course Syllabus

Course Prefix/Number/Title: GEOL 105, Physical Geology

Number of credits: 4 Credits

Course Description: The purpose of this course is to present the various aspects of physical geology. Geology, the study of Earth, benefits everyone who lives on the planet.

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: Angela Bartholomay

Phone: 228-5471

Email: angela.bartholomay@dakotacollege.edu

Textbook(s): Physical Geology by Plummer & Carlson 12th Ed.

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. Make up exams will be different and will be worth 70%, which must be made up within a week following the original exam.

-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 10-12 quizzes due each Wednesday.

-Laboratory- The laboratory portion of the course provides an opportunity to integrate lecture concepts with observable activities and is mandatory. There will be no make-ups for labs unless prior arrangements are made and the lab write-ups are due during the next lab period. No credit will be given for dry labs!

-Final lab project- This scavenger hunt allows you to demonstrate what you have learned throughout the semester.

<u>Tentative lecture Schedule</u>		<u>Reading assignment</u>	<u>Lab schedule</u>
Week 1	Chapter #1	p. 3-25	No Lab
Week 2	Jan 20th	Martin Luther King Day- No Class	
	Chapter #2	p. 31-51	Scientific method
Week 3	Chapter #3	p. 55-76	Mineral identification
Week4	Chapter #4	p. 83-109	Igneous Rock identification
	Exam #1	Chapters #1-4	
Week 5	Chapter #5	p. 113-133	Soil lab
Week 6	Chapter # 6	p. 137-165	Sedimentary rock identification
Feb 17th President's Day – No Class			
Week 7	Chapter #7	p. 169-190	Metamorphic rock identification
Week 8	Chapter #8	p. 193-216	Geologic time
	Exam #2	Chapters #5-8	
Week 9	Chapter # 9	p. 221-244	Fossil Lab
	Chapter #10	p. 247-280	
Spring Break- March 16-22 No Class			
Week 10	chapter #11	p. 283-303	Ground water
Week 11	chapter #12	p. 307-335	
	Exam #3	Chapters #9-12	
Week 12	Chapter #15	p. 383-403	
Easter Break April 10-13- No Class			
Week 13	Chapter #16		
	Chapter #19	p. 407-438	Earthquake location lab
Week 14	Chapter #20	p. 491-52	
	Chapter #21	p. 527-548	
Week 15	Chapter #22	p. 551-579	Final Lab presentations
	Exam #4	Chapters 15, 16, 19-22	
Week 16	Final lab project	Due May 1	Final Exam May 8th

General Education Goals/Objectives:

Learning Outcome 1: Applies the scientific methods of inquiry.

- Performance Indicator 1: Utilizes the scientific process to solve problems.
- Performance Indicator 2: Interprets experimental data to draw logical conclusions.
- Performance Indicator 3: Applies technology in the scientific process.

Learning Outcome 3: Applies scientific information in everyday life.

- Performance Indicator 1: Utilizes scientific information in daily decision-making.
- Performance Indicator 2: Recognizes the role of science in nature and society.

Relationship to Campus Theme: 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, components of technology will lead to this understanding. Students explore career options for their future.

Classroom Policies: Attendance in class is expected. If you are absent, please find another student to obtain the notes. Exams & Labs can only be made up if I am notified in advanced. Quizzes cannot be made up unless prior approval has been made. All make-up work must be

completed within one week. **Cell phones must be turned off during class time. No Headphones are allowed!**

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 within the first two weeks of the semester to line up accommodations.

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.

FINAL EXAM SCHEDULE SPRING 2020

NOTE:

1. The final exam schedule is based on class lecture periods.
2. Instructors are required to meet and administer final exams in their regular scheduled classrooms.
3. Final exams are to be given on the last class period prior to the first day of finals or at a time arranged by the instructor for the following: All one and two credit classes; IVN classes; and classes starting after 4:00pm.
4. For all classes listed in the spring schedule as "TBA," finals will be given during the last regularly scheduled class period of the semester or at a time determined by the instructor during finals week that does not conflict with other final exams.
5. For classes not listed on the final exam schedule, finals will be given during finals week during a time arranged by the instructor that does not conflict with other final exams.

If you class Regularly meets at:		Your Final exam is scheduled for:
9:00-9:50	M, W, F	Monday, May 11 9:00-11:00 a.m.
9:00-9:50	M, Tu, W, F	
9:00-9:50	M, Tu, W, Th	
9:30-10:45	Tu, Th	Monday, May 11 12:00-1:00 p.m.
10:00-10:50	Tu, Th	
1:00-2:15	Tu, Th	Monday, May 11 3:00-5:00 p.m.
2:00-3:15	Tu, Th	
2:00-4:50	Tu, Th	
10:00-10:50	M, W, F	Tuesday, May 12 9:00-11:00 a.m.
10:00-10:50	M, Tu, W, F	
10:00-10:50	M, W	
11:00-12:15	Tu, Th	Tuesday, May 12 12:00 – 2:00 p.m.
2:00-2:50	M, W, F	Tuesday, May 12 3:00-5:00 p.m.
2:00-2:50	M, Tu, W, F	
2:20-3:10	M, W, F	
8:00-9:15	Tu, Th	Wednesday, May 13
11:00-11:50	M, W, F	Wednesday, May 13 12:00-2:00 p.m.
11:00-11:50	M, Tu, W, F	
1:00-1:50	M, W, F	Wednesday, May 13 3:00-5:00 p.m.
1:00-1:50	M, Tu, W, F	
8:00-8:50	M, W, F	Thursday, May 14 9:00-11:00 a.m.
8:00-8:50	M, W	
12:30-1:45	Tu, Th	Thursday, May 14 12:00-2:00 p.m.
1:00-1:50	Tu, Th	