



**Course Syllabus: Physical Geology**  
**McCoy College of Science, Mathematics, and Engineering**  
**GEOS 1134 Section 201**  
**Spring 2026**

**Contact Information**

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**Course Description**

Welcome to Physical Geology! In this course, you'll discover that geology is more connected to your everyday life than you might expect. You'll learn about the building blocks of our planet—its minerals and rocks—which also make up the resources we depend on to improve our lives and advance our technology. We'll explore how Earth's processes create geologic features like the Grand Canyon, deserts like Death Valley, the Basin and Range, and vast rift zones such as the East African Rift. You'll also see how Earth's inner and outer forces drive earthquakes, volcanoes, and mountain building. Together, we'll uncover the story of our dynamic planet, how it has changed over the vast expanse of geologic time, and how this knowledge can raise our awareness of geologic hazards and environmental concerns, guiding what we can do to mitigate them collectively and individually.

**Textbook & Instructional Materials**

Physical Geology by Charles (Carlos) Plummer, Diane Carlson, and Lisa Hammersley. 17<sup>th</sup> Edition. Use Connect (digital access).

**Student Handbook**

Refer to: [Student Handbook](#)

**Academic Misconduct Policy & Procedures**

Academic Dishonesty: Cheating, collusion, and plagiarism (the act of using source material of other persons, either published or unpublished, without following the accepted techniques of crediting, or the submission for credit of

work not the individual's to whom credit is given). Additional guidelines on procedures in these matters may be found in the Office of Student Conduct.  
[Office of Student Conduct](#)

### **Grading**

There will be three lecture exams. The first two will each count for 15% of your final grade, and the third, the "Final Exam," will count for 20% of your course grade. All lecture exams are cumulative and comprehensive. Homework assignments, quizzes, and lab assignments will account for 40% of your course grade. The remaining 10% will be assigned to a research paper. The use of AI tools in preparing the research paper is not permitted. Submission of an appropriate research paper is required to earn an A in the course. A rubric for the research paper will be provided at the time of the assignment.

Table 1: Points allocated to each assignment.

Graded Items	Contribution to the Final Course Grade
Exam 1 and 2 (each)	15%
Exam 3 (Final Exam)	20%
Homework Assignments	10%
Research Paper	10%
Quizzes	5%
Lab Assignments	25%

Table 2: Total points for final grade.

Grade	Points
A	Greater than 90
B	80-90
C	70-79
D	60-69
F	Less than 60

### **Homework**

Homework will be assigned during or after the completion of each topic. All assignments will be posted in D2L with due dates. The questions are comprehensive and may be drawn from any of the materials covered. Late submissions will be accepted with a penalty: 10% for one week past due, 20% for two weeks past due, and after three weeks, a grade of zero may be recorded for the missed homework.

### **Quizzes**

See the "Grading" section for details – quizzes will be given randomly. Students are encouraged to attend all sessions so they do not miss any of the quizzes.

## **Exams**

See the "Grading" section for details – **all exams** are provided in-person, unless otherwise specified. The first two exams must be completed within 50 minutes. The Final Exam can be 110 minutes long. Students who have worked with DSS will be given additional time to complete exams.

## **Research Paper**

Students will be asked to submit topics of interest on which they will write a 2-3 pages long research paper. A go by will be posted in D2L along with a grading rubric.

## **Mid-Term Exam**

See the "Grading" section for details. There will be two mid-term exams. Both are cumulative and comprehensive.

## **Final Exam**

See the "Grading" Section for details. There will be two review sessions before the Final Exam. The Final Exam is 110 minutes long. Students who have worked with DSS will be given additional time to complete exams.

## **Extra Credit**

Extra credit assignments are not accepted in this course. The instructor may make revisions if deemed necessary.

## **Late Work**

The following penalties will apply in all cases of late submissions (unless other arrangements have been made in advance): 10% for one week past due; 20% for two weeks past due; 30% for three weeks past due. Submissions more than three weeks overdue may receive a grade of zero.

## **Make Up Work/Tests**

Students who have missed assignments because of serious and difficult circumstances may reach out to the instructor with evidence, and their request maybe accommodated if found convincing.

## **Important Dates**

Last day for term schedule changes: [Academic Calendar](#)

Deadline to file for graduation: February 16, 2026. Check date on [Academic Calendar](#).

Last Day to drop with a grade of "W:" April 29, 2026. [Academic Calendar](#).  
Refer to: [Drops, Withdrawals & Void](#)

## **Desire-to-Learn (D2L)**

Extensive use of the MSU D2L program is a part of this course. Each student is expected to be familiar with this program as it provides a primary source of communication regarding assignments, examination materials, and general course information. You can log into [D2L](#) through the MSU Homepage. If you

experience difficulties, please contact the technicians listed for the program or contact your instructor.

### **Attendance**

Attendance is mandatory. Quizzes will be given randomly. Students are encouraged to attend all sessions.

### **Instructor Class Policies**

As we initiate discussions in D2L, please be polite and respectful in your engagement. Do not use AI for your Research Paper project.

### **Change of Schedule**

A student dropping a course (but not withdrawing from the University) within the first 12 class days of a regular semester or the first four class days of a summer semester is eligible for a 100% refund of applicable tuition and fees. Dates are published in the Schedule of Classes each semester.

### **Refund and Repayment Policy**

A student who withdraws or is administratively withdrawn from Midwestern State University (MSU) may be eligible to receive a refund for all or a portion of the tuition, fees and room/board charges that were paid to MSU for the semester. **HOWEVER**, if the student received financial aid (federal/state/institutional grants, loans and/or scholarships), all or a portion of the refund may be returned to the financial aid programs. As described below, two formulas (federal and state) exists in determining the amount of the refund. (Examples of each refund calculation will be made available upon request).

### **Services for Students with Disabilities**

In accordance with Section 504 of the Federal Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, Midwestern State University endeavors to make reasonable accommodations to ensure equal opportunity for qualified persons with disabilities to participate in all educational, social, and recreational programs and activities. After notification of acceptance, students requiring accommodations should make application for such assistance through Disability Support Services, located in the Clark Student Center, Room 168, (940) 397-4140. Current documentation of a disability will be required in order to provide appropriate services, and each request will be individually reviewed. For more details, please go to [Disability Support Services](#).

### **College Policies**

#### *Campus Carry Rules/Policies*

Refer to: [Campus Carry Rules and Policies](#)

#### *Smoking/Tobacco Policy*

College policy strictly prohibits the use of tobacco products in any building owned or operated by WATC. Adult students may smoke only in the outside designated-smoking areas at each location.

### *Alcohol and Drug Policy*

To comply with the Drug Free Schools and Communities Act of 1989 and subsequent amendments, students and employees of Midwestern State are informed that strictly enforced policies are in place which prohibits the unlawful possession, use or distribution of any illicit drugs, including alcohol, on university property or as part of any university-sponsored activity. Students and employees are also subject to all applicable legal sanctions under local, state and federal law for any offenses involving illicit drugs on University property or at University-sponsored activities.

### *Campus Carry*

Effective August 1, 2016, the Campus Carry law (Senate Bill 11) allows those licensed individuals to carry a concealed handgun in buildings on public university campuses, except in locations the University establishes has prohibited. The new Constitutional Carry law does not change this process. Concealed carry still requires a License to Carry permit, and openly carrying handguns is not allowed on college campuses. For more information, visit [Campus Carry](#).

### *Active Shooter*

The safety and security of our campus is the responsibility of everyone in our community. Each of us has an obligation to be prepared to appropriately respond to threats to our campus, such as an active aggressor. Please review the information provided by MSU Police Department regarding the options and strategies we can all use to stay safe during difficult situations. For more information, visit [MSUReady – Active Shooter](#). Students are encouraged to watch the video entitled "Run. Hide. Fight." which may be electronically accessed via the University police department's webpage: ["Run. Hide. Fight."](#)

### **Grade Appeal Process**

Update as needed. Students who wish to appeal a grade should consult the Midwestern State University [MSU Catalog](#)

**\*Notice:** Changes in the course syllabus, procedure, assignments, and schedule may be made at the discretion of the instructor.

### **Course Schedule:**

We will be covering 23 topics of Physical Geology in 15 weeks. These topics are interrelated in many ways. The assignments, the lab activities, and the discussions we will have in D2L will help us relate the various topics and appreciate Earth's system.

## Course Schedule

Week	Date	Topic
Week - 1	Wednesday, January 21, 2026	Introducing Geology, the Essentials of Plate Tectonics and Other Important Concepts
Week - 1	Friday, January 23, 2026	Atoms, Elements, and Minerals I
Week - 2	Monday, January 26, 2026	Atoms, Elements, and Minerals II
Week - 2	Wednesday, January 28, 2026	Igneous Rocks, the Origin and Evolution of Magma, and Intrusive Activity I
Week - 2	Friday, January 30, 2026	Igneous Rocks, the Origin and Evolution of Magma, and Intrusive Activity II
Week - 3	Monday, February 2, 2026	Volcanism and Extrusive Rocks I
Week - 3	Wednesday, February 4, 2026	Volcanism and Extrusive Rocks II
Week - 3	Friday, February 6, 2026	Weathering and Soil I
Week - 4	Monday, February 9, 2026	Weathering and Soil II
Week - 4	Wednesday, February 11, 2026	Sediment and Sedimentary Rocks I
Week - 4	Friday, February 13, 2026	Sediment and Sedimentary Rocks II
Week - 5	Monday, February 16, 2026	Metamorphism and Metamorphic Rocks
Week - 5	Wednesday, February 18, 2026	Time and Geology I
Week - 5	Friday, February 20, 2026	Time and Geology II
Week - 6	Monday, February 23, 2026	Mass Wasting
Week - 6	Wednesday, February 25, 2026	Exam - 1
Week - 6	Friday, February 27, 2026	Streams and Floods I
Week - 7	Monday, March 2, 2026	Streams and Floods II
Week - 7	Wednesday, March 4, 2026	Groundwater I
Week - 7	Friday, March 6, 2026	Groundwater II
Week - 8	Spring Break	Spring Break
Week - 8	Spring Break	Spring Break
Week - 8	Spring Break	Spring Break
Week - 9	Monday, March 16, 2026	Glaciers and Glaciation
Week - 9	Wednesday, March 18, 2026	Deserts and Wind Action
Week - 9	Friday, March 20, 2026	Waves, Beaches, and Coasts
Week - 10	Saturday, March 23, 2024	Geologic Structures I
Week - 10	Wednesday, March 25, 2026	Geologic Structures II
Week - 10	Friday, March 27, 2026	Earthquakes
Week - 11	Monday, March 30, 2026	Earth's Interior and Geophysical Properties
Week - 11	Wednesday, April 1, 2026	Earth's Interior and Geophysical Properties
Week - 11	Friday, April 3, 2026	Holiday

<b>Week</b>	<b>Date</b>	<b>Topic</b>
Week - 12	Monday, April 6, 2026	Exam - 2
Week - 12	Wednesday, April 8, 2026	The Sea Floor
Week - 12	Friday, April 10, 2026	Plate Tectonics—The Unifying Theory I
Week - 13	Monday, April 13, 2026	Plate Tectonics—The Unifying Theory II
Week - 13	Wednesday, April 15, 2026	Plate Tectonics—The Unifying Theory III
Week - 13	Wednesday, April 15, 2026	Mountain Belts and the Continental Crust I
Week - 14	Monday, April 20, 2026	Mountain Belts and the Continental Crust II
Week - 14	Wednesday, April 22, 2026	Global Climate Change
Week - 14	Friday, April 24, 2026	Resources I
Week - 15	Monday, April 27, 2026	Resources II
Week - 15	Wednesday, April 22, 2026	The Earth's Companions I
Week - 15	Friday, May 1, 2026	The Earth's Companions II
Week - 16	Monday, May 4, 2026	Exam Review I
Week - 16	Wednesday, May 6, 2026	Exam Review II
Week - 16	Friday, May 8, 2026	Exam Review III
Week - 17	TBA	Exam - 3

**Please note that there is a possibility that I can move contents and exam dates around. I will make sure that you are informed about it ahead of time should that happen.**

**Also, please note that, in the event of inclement weather, professional travel, or illness, I may migrate lecture sessions to an online format.**