

PRINCIPLES OF GEOLOGY GEOL 1121K

CRN 20875, GEOL 1121K, SPRING 2024, 4 CREDIT HOURS, JAN 8—APRIL 29

Section 02H: Lecture: T, 8:00-9:15 am, Sequoya 223, Lab: T, 9:30-11:20 am, Sequoya 202

INSTRUCTOR INFORMATION

Dr. Jean M Johnson, Sequoya 203, Phone 706 272-2666, or email jmjohnson@daltonstate.edu

Student Hours:

M: 10:00 am to 12:00 noon in office T: 12 noon to 1:00 pm in office

W: 8:00 to 9:00 am and 11:00 am to 12 noon in office

Also, by appointment in office or Chat via Microsoft Teams

REQUIRED TEXT AND MATERIALS

Earth: Portrait of a Planet, S. Marshak (ANY edition of the textbook is acceptable)

COURSE DESCRIPTION

Course Description: This course is an introduction to the study of solid earth systems, particularly plate tectonics and its implications. The importance of the rock cycle, earth materials, and geologic time will also be emphasized.

Prerequisites: none

CORE IMPACTS

This is a Core IMPACTS course that is part of the STEM area.

Core IMPACTS refers to the core curriculum, which provides students with essential knowledge in foundational academic areas. This course will help master course content and will support students' broad academic career goals.

This course should direct students toward a broad Orienting Question:

How do I ask scientific questions or use data, mathematics, or technology to understand the universe?

Completion of this course should enable students to meet the following Learning Outcome:

Students will use the scientific method and laboratory procedures or mathematical and computational methods to analyze data, solve problems, and explain natural phenomena.

Course content, activities, and exercises in this course should help students develop the following Career-Ready Competencies:

Inquiry and Analysis, Problem-Solving, Teamwork

LEARNING GOALS/OUTCOMES

Upon completing GEOL 1121k, students should be able to:

1. Recognize and analyze the evidence supporting the theory of plate tectonics.

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2. Demonstrate an understanding of the structure and composition of the earth.
3. Classify and identify common rocks and minerals and explain how they form.
4. Interpret natural hazards in the context of plate tectonic activity.
5. Connect plate tectonics to the rock cycle and geomorphic features of the earth.

METHODS OF ASSESSING STUDENT LEARNING OUTCOMES

1. Tests, online quizzes, and a pre/posttest will assess objectives 1-5
2. Lab exercises will assess objectives 1-5
3. A rock identification quiz and online quizzes will assess objectives 2 and 3.

Assessment for SACS requirements will consist of a pre/posttest, a rock identification quiz, and questions on the exams.

EVALUATION

Grades will be based on the following:

4 exams and an exit exam	390 points
Labs	195 points
Online quizzes	100 points
Rock Quiz	15 points
Earthquake Watch (see instructions)	15 points
Plicker quizzes	60 points

Grades will be given based on 90-100% of 775 total points is an A, 80-90% is a B, 70-80% is a C, 60-70% is a D, and <60% is an F.

ADDITIONAL COURSE REQUIREMENTS

See instructions for Earthquake Watch.

COURSE CALENDAR

Outline of Chapters to be covered:

Jan 9	Intro, Entrance Exam, Maps and Globes Lab	(Online quiz 1, Jan 9-16)
Jan 16	Chapter 2, Earth Structure Lab, Practice Plicker	(Online quiz 2, Jan 16-23)
Jan 23	Chapter 3, Plate Tectonics Lab I, Plicker 1	(Online quiz 3, Jan 23-30)
Jan 30	Chapter 4, Plate Tectonics Lab II, Plicker 2	(Online quiz 4, Jan 30- Feb 6)
Feb 6	EXAM 1 , Pre-Mineral lab	(Online quiz 5, Feb 6-13)
Feb 13	Chapter 5, Minerals Lab, Plicker 3	(Online quiz 6, Feb 13-20)
Feb 20	Chapter 6, Igneous Rock Lab, Plicker 4	(Online quiz 7, Feb 20-27)
Feb 27	Chapter 9, Mt St Helens Lab, Plicker 5	(Online quiz 8, Feb 27- Mar 5)
Mar 5	EXAM 2 , Sed/Meta Rocks in the Field Lab	(Online quiz 9, Mar 5-19)
Mar 19	Chapter 7, Sedimentary Rocks Lab, Plicker 6	(Online quiz 10, Mar 19-26)
Mar 26	Chapter 8, Meta Rocks Lab, Plicker 7	(Online quiz 11, Mar 26- Apr 2)
Apr 2	EXAM 3 , Rock Quiz lab	(Online quiz 12, Apr 2-9)
Apr 9	Chapter 10, EQ Location Lab, 1964 EQ Lab, Plicker 8	(Online quiz 13, Apr 9-16)
Apr 16	Chapter 11, 1964 EQ Lab, cont., Plicker 9	(Online quiz 14, Apr 16-23)
Apr 23	Chapter 12, Geologic Time Lab, Exit Exam, Plicker 10	(Online quiz 15, Apr 23-30)
May 7, 8 am	Exam 4	

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USING GEORGIA VIEW AND OTHER TECHNOLOGIES

We will utilize Georgia VIEW and other technologies for everything in the class. It is important that you can access Georgia VIEW and utilize it. If you have problems with access, you need to contact OCIS (2611). If you do not understand how to use features of Georgia VIEW, you can see me.

ATTENDANCE

It is essential that students attend both lectures and labs. In the event of absence, it is the student's responsibility to see the instructor to determine how to make up missed material. It is important to have the lab printed out before the lab! You can come to class whenever you get there, but please come to lab on time! I spend the first part of the lab explaining what we are doing and giving important instructions. If you are late because you were printing the lab, you will miss these instructions.

The instructor will take attendance every class period for both those in class and those attending online due to illness or quarantine. Students who are in quarantine or sick should attend via Microsoft Teams. Teams is available for all students. Documentation is the surest way to have an absence excused. Students who come into class after attendance is called need to make sure the instructor marks them present.

1. For **exams**: There will be make-up exams only in extraordinary circumstances. In general, illness, a family emergency, active military duty, or a college-authorized absence, etc., will be accepted as excuses for missing an exam. Other reasons for missing the exam will be considered on a case-by-case basis. If you miss the exam and are allowed to make it up, you have as much time to make it up as the instructor deems reasonable. **The instructor reserves the right to decide whether an excuse is sufficiently serious to be accepted.**
2. For **labs**: There are NO makeup labs. If you miss a lab for illness, etc., you can do an alternate assignment, but only ONE such substitution will be allowed for the course, except in very extraordinary circumstances, such as listed above. Alternate assignments may be an online version of the lab, but they may be a written assignment.
3. If you miss an **in-class Plicker quiz**, you cannot make it up. There are extra credit opportunities throughout the semester which can substitute for those points.
4. If you miss the **Rock Quiz** for any reason, you cannot do a substitute assignment. You will have to arrange with the instructor to do the Rock Quiz at a later time before the last day of class.
5. Oops! Everyone has a life outside of class and sometimes it gets in the way of finishing some work. Therefore, everyone has THREE virtual OOPSIE cards in their gradebook. If you forget to do an online quiz or upload an assignment on time, you can redeem your oopsie card for an extension. It is up to the student to contact the instructor about redeeming the oopsie card. When you use the oopsie card, it will be removed from the gradebook. Oopsie cards do NOT apply to exams! Use them wisely but be sure to use them when you need them! All oopsie cards must be redeemed by the end of Reading Day.

OTHER SPECIFIC COURSE RELATED POLICIES

NO FOOD OR DRINK OF ANY KIND IS ALLOWED IN ROOM 202! (the lab room)

Personal Technology Policy: It is highly discouraged to be using cell phones, tablets or laptop computers, watches that connect to a smart phone, and personal music equipment or headphones/earbuds in the classroom or lab except on class-related business. The instructor reserves the right to ask any student abusing this policy during class to

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leave the classroom. If any such device is seen by the instructor during an exam on anyone's desk, lap, adjacent chair, etc. that person will be assumed to be cheating even if the student can conclusively prove that the device was turned off or nonfunctioning. In such a case the student will fail the exam.

EMERGENCY INSTRUCTIONAL PLAN

In the event the college is closed due to inclement weather or medical issues, students will consult the schedule provided at the beginning of the semester to determine which chapters would be covered during the time the college is closed. Students will be responsible for anything in that chapter. I am NOT available 24/7, so please expect reasonable delays in my answers to emails during a period when the college is closed due to bad weather.

Extra Credit Options:

Before each exam, you can do extra credit. Under the module Extra Credit, there are three extra credit options for each module we cover (four modules in all). Each extra credit option is a short video with a file of questions that need to be answered. When finished, you can upload your answers to the appropriate folder under Assignments. You can do any or all of the extra credit available for each module, but the folder closes on the day of the exam and a new folder opens.

COURSE POLICIES AND PROCEDURES

DIVERSITY

(Last modified by the Faculty Senate and approved by the JEDI Committee April 2021)

Diversity enriches human interaction and learning. Different perspectives lead to innovative, sustainable solutions for our most persistent and challenging problems. When we engage and learn from each other, we thrive. Thus, we embrace diverse communities; we respect and value their unique experiences and contributions. Everyone in our community has a responsibility to ensure that all feel secure and welcome, that the contributions of all individuals are respected, and that all voices are heard.

DISABILITY ACCESS

(From the [Disability Access](#) website, reaffirmed July 2022)

Students with disabilities or special needs are encouraged to contact Disability Access. In order to make an appointment or to obtain information on the process for qualifying for accommodations, the student should visit the [Disability Access Library Guide](#) or contact the Disability Access office.

Contact information

Andrea Roberson, Director of Disability Access and Student Support Services
Pope Student Center, upper level
706-272-2524
aroberson@daltonstate.edu

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ETHICAL CONDUCT

(Last modified June 2021, reaffirmed July 2022)

Academic Dishonesty: Cheating, plagiarism, and engaging in any behavior prohibited by faculty are part of the Dalton State Code of Conduct, which can be found in its most updated form as at [Dalton State Student Code of Conduct](#). ANY assistance provided or given in any way toward work in a class constitutes cheating unless such behavior is authorized by your instructor. Additionally, any use of the ideas or words of others should be noted, or this will constitute plagiarism. Using another students' work or collaborating on an assignment not designated as collaborative is unacceptable. Furthermore, presenting work that was completed for another class, while not plagiarism technically, is not the same as presenting original work and is therefore unacceptable unless it has been authorized by your instructor. Using a private company to complete work for you is contract cheating and is also against the Student Code of Conduct. For more details on what Dalton State considers to be Academic Dishonesty, please review the Student Code of Conduct. Instructors will assign grades based on classroom performance. Additional sanctions may be provided as a learning experience from the Student Conduct process.

Classroom Behavior: Dalton State is committed to respect via the Roadrunner Respect pledge. To learn more, please visit [Roadrunner Respect](#). "I pledge to show my fellow Roadrunner students, faculty, staff, and administration respect by treating others the way they want to be treated and by thinking about others first before making decisions that might affect them."

COURSE WITHDRAWAL STATEMENT

(Last modified and reaffirmed July 2022)

The last day to drop this class without penalty (a W) is **March 22, 2024**. If you submit a Schedule Adjustment Form to drop this course or drop via the web by this date, you will be assigned a grade of W. The grade of W counts as hours attempted for the purposes of financial aid. If you drop after this date, a grade of WF will be issued except in cases of [Extreme Hardship](#) as determined by the Dean of Students and a Hardship Withdrawal Committee. All Hardship Withdrawal decisions are communicated to students via their DSC email, and appropriate administrative offices are notified. Withdrawal from class is a student responsibility. Students who fail to complete the official drop/withdrawal procedure will receive the grade of F.

FULL WITHDRAWAL STATEMENT

(Last modified June 2021, reaffirmed July 2022)

The proper form for withdrawing from all classes at the college after the official drop/add period but before the published withdrawal date ([Academic Campus Calendar](#)) is the [Schedule Adjustment Form](#). All students must meet with a staff member at the Dean of Students office in the upper level of the Pope Student Center to initiate the withdrawal process and complete an exit interview. After meeting with the staff member, students will then finalize the withdrawal process in the Enrollment Services Office.

GRADE APPEALS

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(Last modified May 2018, reaffirmed July 2022)

A student may file a formal challenge to a grade if there is unequivocal evidence that one or more of the following applies:

- a. It was a direct result of arbitrary and capricious conduct on the part of the instructor;
- b. The instructor discriminated against the student on the basis of a protected classification as the term is defined by Federal Law, Georgia State Law, or the Administrative Code of the City of Dalton;
- c. The grade was incorrectly calculated;
- d. A clerical error occurred in recording the grade; or
- e. A mitigating circumstance prevented the student from completing a final assignment or attending the final exam.

To appeal a grade, the student must notify the instructor in writing no later than two days after the posting of final grades. See [Grade Changes and Appeals](#) for the complete documentation.

ACADEMIC PROGRESSION

(Last modified May 2018, reaffirmed July 2022)

To remain in academically good standing, students must maintain an institutional GPA of 2.0 or higher. Students who do not maintain a 2.0 move through a sequence of statuses ranging from Academic Warning to Academic Probation to Academic Suspension to Academic Dismissal. See [Academic Progress](#) for the complete documentation.

CARE TEAM

(Last modified June 2021, reaffirmed July 2022)

The Campus Assessment, Response, and Evaluation Team, also known as CARE, at Dalton State College engages in proactive and collaborative approaches to identify and assess students who are potentially distressed or may exhibit concerning behaviors. The CARE team is an interdisciplinary assessment group comprised of both faculty and staff. In order to ensure the well-being and safety of our students, please submit concerns via the [online CARE Referral Form](#).

BASIC NEEDS STATEMENT

(Affirmed by the Faculty Senate, July 2022)

Any student facing food insecurity or not having a safe and reliable place to sleep is urged to utilize available resources for students enrolled at Dalton State. For assistance accessing food, please visit the free Birdfeeder (a supplemental student pantry) located in The Nest found on the lower level of the Pope Student Center. All currently enrolled Dalton State students are eligible, and no proof of need is required. For those who lack a safe and stable place to live, or have other needs, please contact the Dean of

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Students Office at deanofstudents@daltonstate.edu or call 706-272-4428, Línea de asistencia en Español: 706-712-4573.

TITLE IX INFORMATION

(Last Modified August 2020, reaffirmed July 2022)

[Student Sexual Misconduct Policy](#)

In accordance with federal and state law including, Title IX of the Education Amendments of 1972 (“Title IX”) and Title VII of the Civil Rights Act of 1964 (Title VII), the University System of Georgia (USG) prohibits discrimination on the basis of sex in any of its education programs or activities or in employment. The USG is committed to ensuring the highest ethical conduct of the members of its community by promoting a safe learning and working environment. To that end, this Policy prohibits Sexual Misconduct, a form of sex discrimination, as defined herein.

Please visit the [Title IX at Dalton State web page](#) for additional information on the [policy](#), [How to Report, Resources](#), and [Training](#).

WEAPONS ON CAMPUS

(Last modified July 2022)

Dalton State College adheres to the University System of Georgia’s [policies](#) regarding weapons on campus. Please visit the USG’s [Board of Regents Policy Manual](#) for more information.

OFFICIALLY APPROVED DSC GROUPS AND ACTIVITIES

(Last modified May 2018, reaffirmed July 2022)

When students are engaged in officially approved Dalton State groups or activities that require them to participate in events off campus during school days, they shall be treated similarly to any faculty or staff member acting in that same capacity. Thus, just as faculty and staff have excused absences from their regular work schedules, students shall be excused from class without penalty if they are off campus representing Dalton State College in an approved, official capacity during their regular class time. Examples include presenting a paper or otherwise participating in a conference, attending a University System student affairs event, participating in intercollegiate competition (athletic or academic), participating in an approved field trip, etc. Just as faculty and staff members are required to submit Request to Travel forms for approval, in order to be excused, the student needs to provide the following information to the instructor prior to the date when he/she will be absent from class:

- notification of the event (in the case of athletics, students should provide each instructor with a schedule of away events at the beginning of the semester or as soon as possible after the schedule is available);
- estimated time of departure from and return to campus (for example, if a student has an away game in the evening and will not be leaving campus until 3:00, he/she will not be excused from

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classes prior to that time on that day; similarly, if the event is in the morning and the student will be returning to campus during the day, he/she is expected to attend any class scheduled after the return trip); and

- contact information for the person or organization sponsoring/authorizing the student's participation in the event

The student shall be allowed to make up any work missed during the time he/she is off campus representing DSC in an official capacity. He/she shall discuss what will be missed with the instructor and make arrangements to make up any assignments, tests, presentations, etc. scheduled on that date.

LAPTOP LOAN PROGRAM POLICY

(Approved by the Faculty Senate March 2022)

If you need a laptop to complete your courses at Dalton State, please fill out the online request form: <https://daltonstate.libwizard.com/f/laptop-request>

You must be a currently enrolled DSC student.

Depending on need and availability, you will be notified via DSC email that you have been assigned a laptop. Laptops may be checked out at the Roberts Library the week before classes start or at any time during the semester. You must have your student ID with you and sign a laptop loan agreement form.

Laptops are due and must be returned to the library on the last day of exams. If you do not return your loaned laptop by the due date, a Banner hold will be placed on your account, and you will be charged for the full replacement cost.

For more information, contact Melissa Whitesell, the Executive Director of Library Services and Sponsored Programs, at Derrell C. Roberts Library through email at mwhitesell@daltonstate.edu or by phone at 706-272-2503.

VIRTUAL REALITY (VR) POLICY

(Approved by the Faculty Senate March 2022)

The Virtual Reality Lab is in Room 141 at the Derrell C. Roberts Library. This space is 22' x 25', allowing plenty of room for individuals or classes to interact with the VR equipment, software, and apps available. The lab has HP Reverb G2 VR headsets, HPZ VR backpack workstation, Google cardboard goggles, and BNext VR Headsets (compatible with Android & iPhone).

Dalton State students, faculty, and staff can make reservations. The room can be reserved for one-hour sessions each day. The online reservation form can be found here:

https://daltonstate.libwizard.com/f/vr_reserve. Individuals must have their DSC ID, sign the liability release form each session, and complete a brief training session once each semester to use the lab.

It is recommended that students use apps such as SteamVR on Steam in order to use individual accounts in conjunction with the library's VR equipment. Otherwise, they should make sure that they log out when

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using the library's applications and programs once finished with each session. Additionally, students are encouraged to bring external hard drives to store and save VR applications and data.

Check the library's website for hours, as these hours vary with availability each semester.

For more information, contact Melissa Whitesell, the Executive Director of Library Services and Sponsored Programs, at Derrell C. Roberts Library through email at mwhitesell@daltonstate.edu or by phone at 706-272-2503.

To schedule a class, visit or use of VR equipment, contact David Brown, Derrell Roberts Librarian, through email at dobrown@daltonstate.edu or by phone at 706-272-2048.

MICROSOFT AND ADOBE APPLICATIONS POLICY

(Approved by the Faculty Senate March 2022)

As a Dalton State Student, if you currently do not have access to Microsoft applications such as Word, PowerPoint, and Excel or Adobe applications like Acrobat, InDesign, Dreamweaver, Photoshop, Creative Cloud, or Illustrator, you can use your Dalton State student credentials to access these applications.

You can download Microsoft applications by logging into your Dalton State student email from a web browser. Here are the steps for obtaining access to Office 365; these directions are specific to Dalton State College, but students at other schools who use Microsoft Office 365 should be able to follow a similar procedure:

1. Log into your Dalton State email account (<https://daltonstate.onelogin.com>).
2. Click on the Office 365 panel
3. Click on the Install Office button and choose Office 365 apps on the drop-down menu.
4. From the Office365 settings screen, select Software.
5. Follow the directions on the window that pops up.

For further information, contact OCIS at 706-712-8213, stop by Gignilliat Memorial Hall Room 107, or email servicedesk@daltonstate.edu.