Physical Science: Principles of Earth Science, GS 106

Syllabus

# General Information:

## Instructor Information and Availability

Instructor name: Kenton Sean Daniels

Phone number: 541-224-4147

E-mail address: [daniels@linnbenton.edu](mailto:daniels@linnbenton.edu) or [danielsk504@gmail.com](mailto:danielsk504@gmail.com)

Office hours: 5:00-0-6:00pm T Th

Office number: 541-224-4147

Best option to reach me is by e-mail or text. I generally respond to text messages fairly quickly.

## Course Information

CRN: 33256

Scheduled time/days: 02:30-04:50pm, T Th

Number of credits: 4

Classroom: BC-207

### Prerequisites:

NONE

## Course Materials

Optional:

* Textbook: Foundations of Earth Science by Lutgens and Tarbuck, 8th ver., ISBN 978-0134184814, Pearson Publishing

Required:

* GS106 Lab Manual 18/19 by Carter/LBCC
* Access to Moodle
* Access to Excel and Internet/Moodle

## Course Description

## Introduces non-science majors to the Earth Sciences, including geology, meteorology, and astronomy, includes a laboratory component. No previous science background required.

## Student Learning Outcomes

1. Identify and classify igneous, sedimentary, and metamorphic rocks.
2. Describe the formation of landforms in the context of plate tectonic theory.
3. Describe the components and processes of the hydrologic system.
4. Describe the components and processes of the atmospheric system, including weather and climate.
5. Describe objects that make up the solar system and universe, and explain the effects of the relative positions of the earth, sun, and moon.

# Class Policies

## Behavior and Expectations

You are held accountable to the [Student Code of Conduct](https://www.linnbenton.edu/current-students/administration-information/policies/students-rights-responsibilities-and-conduct), which outlines expectations pertaining to academic honesty (including cheating and plagiarism), classroom conduct, and general conduct. Use of cell phones: The use of cell phones during class is not acceptable unless an emergency. Attendance is counted and missing lectures will cause you to miss important information and announcements regarding exam material.

## Testing

* If you know you will be absent on a test day please contact me ahead of time to schedule a make-up in the Learning and Career Center at the Benton Center.
* Once tests are returned to the class they cannot be made up.
* The final exam is comprehensive but you will be allowed a single 5” x 7” notecard *for the final exam only*.
* I will provide you with study guides for the two exams and a jeopardy review and final exam study guide for the final. Use these tools to guide your preparation for the exams.

## Grading

* Unit exams (2 @ 100 pts) = 200 points
* Comprehensive Final Exam = 100 points
* Labs = 90 points (drop lowest lab)
* Weekly Moodle Homework = 90 points (drop lowest).
* In-class activities = 20 points
* Attendance= 50 points: showing up for class is actually important!!
* Homework: 50 points, Analytical and quantitative writing assignments given over duration of the term

Total = 600 points

**Final Grade Calculation: You cannot pass this course if you miss more than 2 labs**

|  |  |
| --- | --- |
| 540-600 | A |
| 480-539 | B |
| 420-479 | C |
| 360-419 | D |
| <360 | F |

**Exams:** Exam 1 covers weeks 1-4. Exam 2 covers weeks 5-7. Cell phones must be left on your desk or with me if you need to use the restroom during any exam.

**Comprehensive Final Exam:** This exam covers the entire 10 week course. Early finals can only be taken during finals week.

**Labs:** Each week there is a lab. You should read each lab BEFORE arriving to class. Labs will occur on **Thursdays**. You must bring your lab manual with you. Lab reports are due at the end of each lab. *Labs cannot be made up* but I will drop your lowest score. Missing more than 2 labs will cause you to fail this course.

**Weekly Homework:** You will complete weekly “HW” assignments **on Moodle**. These are always due on Sunday at 11:59 pm. *It is a good idea to set a recurring reminder for the due date for the HW assignments on your phone*. Your lowest score is dropped. Assignments 1-10 are based from reading from the book but may also be obtained from lectures or open source geology educational resources. Exam material will be based off of lecture and lab material.

* HW1: MINERALS (Week 1)
* HW2 ROCK TYPES (Week 2)
* HW3 TECTONICS (Week 3)
* HW4 VOLCANOES (Week 4)
* HW5 EARTHQUAKES (Week 5)
* HW6 DEPOSITIONAL ENVIRONMENTS (Week 6)
* HW7 OCEANOGRAPHY (Week 7)
* HW8 CLIMATE CHANGE (Week 8)
* HW9 WEATHER (Week 9)
* HW10 ASTRONOMY (Week 10)

**Incomplete grade**s (IN) will only be considered if a student has talked to me in advance, and a signed agreement between the student and myself is completed. IN grade are assigned only if the student has a good reason for making the request, has *only the minority of coursework remaining to complete*, and *has scored a C or better on work that has been submitted.*

### Attendance: Coming to class is a good idea. I have taught this course for several years and students who regularly come to class on average outperform their peers. Plus, you might learn something from me that is not on the lectures. Attendance is also part of your grade. If you have to miss a class, please get notes from your fellow students.

### Late Assignment Policy

No work can be made up after it is returned to the class. **Labs cannot be made up. Late homework is not accepted.**

# College Policies

## LBCC Email and Course Communications

You are responsible for all communications sent via Moodle and to your LBCC email account. You are required to use your LBCC provided email account for all email communications at the College. You may access your LBCC student email account through Student Email and your Moodle account through Moodle.

## Disability and Access Statement

LBCC is committed to inclusiveness and equal access to higher education. If you have approved accommodations through the Center for Accessibility Resources (CFAR) and would like to use your accommodations in this class, please talk to your instructor as soon as possible to discuss your needs. If you believe you may need accommodation but are not yet registered with CFAR, please visit the CFAR website at www.linnbenton.edu/cfar for steps on how to apply for services or call 541-917-4789.

## Statement of Inclusion

To promote academic excellence and learning environments that encourage multiple perspectives and the free exchange of ideas, all courses at LBCC will provide students the opportunity to interact with values, opinions, and/or beliefs different than their own in safe, positive and nurturing learning environments. LBCC is committed to producing culturally literate individuals capable of interacting, collaborating and problem-solving in an ever-changing community and diverse workforce.

## Title IX Reporting Policy

If you or another student are the victim of any form of sexual misconduct (including dating/domestic violence, stalking, sexual harassment), or any form of gender discrimination, LBCC can assist you. You can [report](https://linnbenton-advocate.symplicity.com/public_report/index.php/pid073717?) a violation of our sexual misconduct policy directly to our Title IX Coordinator. You may also report the issue to a faculty member, who is required to notify the Coordinator, or you may make an appointment to speak confidentially to our Advising and Career Center by calling 541-917-4780.

## Campus Police/Emergency Resources

You may review emergency services and resources at the LBCC [Public Safety website](https://www.linnbenton.edu/future-students/stuff-parents-want-to-know/public-safety). Campus Safety can be reached using the 'Code 2' button on any campus phone or by dialing x411 on campus or (541) 917-4440 off campus. Dial 911 for off campus emergencies.

# Campus Resources (Albany)

## Learning Center (Albany)

The Learning Center provides academic support and a comfortable place to study. It is located on the second floor above the Library.It also provides free tutoring services for all classes.

## Testing Center (BC)

Computers and printing available

## Science Help Desk (Albany)

Is located in the atrium on the first floor of Madrone Hall and is manned 20 hours per week.

# Changes to the Syllabus

I reserve the right to change the contents of this syllabus due to unforeseen circumstances. You will be given notice of relevant changes in class, through a Moodle Announcement, or through LBCC e-mail.

# Class Schedule

**Due dates every week:**

* **Moodle Homework due Sunday at 11:59 pm (set yourself a reminder on your phone alarm)**

|  |  |  |  |
| --- | --- | --- | --- |
| Week | Reading/HW | Monday (Lecture) | Wednesday (Lab) |
| 1 | CH 1.1, 1.4,1.5  HW1 | Class introduction,  Minerals | Lab 1: Minerals |
| 2 | CH 2  HW2 | Rock Types | Lab 2: Rock Types |
| 3 | CH 5  HW 3 | Plate Tectonics/Earthquakes | Lab 3: Plate Tectonics |
| 4 | CH 7  HW 4 | Volcanoes | Lab 4: Volcanic Explosivity |
| 5 | CH 6.1-6.4,6.6, 6.9-6.12 HW 5 | **Exam 1 (take home) \*\*\*\*due today\*\*\*\*** | Lab 5: Seismic Eruption |
| 6 | CH 3.3-3.7  HW 6 | Rivers and depositional environments | Lab 6 Stream Tables |
| 7 | CH 9.1—9.6, 10.1, 10.2, 10.8  HW 7 | The oceans: the seafloor, currents, and tides | Lab 7 Ocean Salinity |
| 8 | CH11  HW 8 | **EXAM 2**  Climate Change | Lab 8: Climate Change |
| 9 | CH 12.1-12.6,13.1-13.4. CH 14.1-2, 14.4-6 HW9 | Weather | Lab 9: Weather Processes |
| 10 | CH 15, HW10 | Astronomy | Lab 10: Astronomy |
| Final |  | **FINAL EXAM** | Monday 3 p.m. - 4:50 pm |