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

Office hours: 1:30pm-2:30pm 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: 2:30-4:50PM, T Th

Number of credits: 4

Classroom: BC-207

### Prerequisites:

NONE

## Course Materials

Required:

* Textbook: Foundations of Earth Science by Lutgens and Tarbuck, 8th ver., ISBN 978-0134184814, Pearson Publishing
* GS106 Lab Manual 18/19 by Carter/LBCC
* Access to 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

## 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 the final exam. You will use these tools to guide your preparation for the exams.

## Grading

* Unit exams (2 @ 50 pts) = 100 points
* Comprehensive Final Exam = 75 points
* Labs = 90 points (drop lowest lab)
* Weekly Moodle Homework = 90 points (drop lowest).
* In-class activities = 20 points
* Attendance= 25 points

Total = 400 points

**Final Grade Calculation:**

* A = 400-360 points
* B = 359-320 points
* C = 319-280 points
* D = 279-240 points
* F = below 240 points

**Exams:** Exam 1 covers weeks 1-3. Exam 2 covers weeks 4-6.

**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 3 labs will cause you to fail this course.

**Weekly Homework:** You will complete weekly assignments on Moodle. These are always due on Sunday at 11:59 pm. Late work is not accepted but your lowest score is dropped.

**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 to complete*, and *has scored a C or better on work that has been submitted.*

### 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

## Learning Center

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.

## Library

Computers and printing available

## Science Help Desk

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**
* **Pre-labs (if applicable) due at the beginning of lab days**

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| Week | Reading | Tuesday (Lecture) | Thursday(Lab) |
| 1 | CH 1.1 plus Chapter 2 | Class introduction,  Rocks and Minerals | Earth materials: rocks and minerals  Lab 1: Rock cycle |
| 2 | CH 5.3-5.6  CH 6.1-6.5 | Earthquakes and hazards | “The Big One”  Lab 2: Seismic-Eruption |
| 3 | CH 7.1-7.10, & 7.12 | Volcanoes and hazards | Lab 3: Measuring Explosivity of Eruptions |
| 4 | CH 3.3-3.10 | **EXAM 1**  Rivers | Lab 4: Stream Table Experiments |
| 5 | CH 3.11-3.14 | Groundwater and caves | Lab 5: Groundwater Consulting |
| 6 | CH 9.1, 9.5, 9.6, 10.1, 10.2, 10.8 | The oceans: the seafloor, currents, and tides | Lab 6: Oceanography |
| 7 | CH11 | **EXAM 2**  Weather and climate  Global warming | Lab 7: Climate Change |
| 8 | CH 12 & 14 | Cloud formation, Thunderstorms, tornadoes, and hurricanes | Lab 8: Weather Processes |
| 9 | CH 15 | Astronomy: Solar System  Reading 15.3-15.7 | Lab 9: Solar System |
| 10 | CH 16 | Astronomy: Stars and galaxies  Reading: Chapter 16 | Lab 10: Light |
| Final |  | **FINAL EXAM** |  |