

# Physical Science: Principles of Earth Science, GS 106 Spring term 2020

## 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: By Appointment (text or email me and we can set up a time)

Office number: 541-224-4147

Best option to reach me is by e-mail or text.

#### Course Information

CRN: 44004

Scheduled time/days: 2:30-4:30pm, T Th

Number of credits: 4

**Classroom: Online: Lectures and labs will be hosted by me on Zoom chat. Zoom is available to download here <https://zoom.us/download>. The link to course meetings is: <https://linnbenton.zoom.us/j/411619422>**

Meeting ID: 411 619 422

Password: 801058

One tap mobile

+13462487799,,411619422# US (Houston)

+16699006833,,411619422# US (San Jose)

Dial by your location

+1 346 248 7799 US (Houston)

+1 669 900 6833 US (San Jose)

+1 312 626 6799 US (Chicago)

+1 646 876 9923 US (New York)

+1 253 215 8782 US

+1 301 715 8592 US

Meeting ID: 411 619 422

Find your local number: <https://linnbenton.zoom.us/j/411619422>

#### Prerequisites:

NONE

## Course Materials

**Optional:** [Open Educational Resource Physical Geography](#)

The above link takes you to an online textbook that you can use to obtain in depth information on some of the subjects we will cover. The lecture PDF's can be used as well.

**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 and minerals
2. Describe the formation of landforms in the context of plate tectonic theory.
3. Describe the components and processes of river systems.
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](#), 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

- Once tests are returned to the class they cannot be made up
- The final exam is comprehensive
- I will provide you with a study guide for the final exam

## Grading

- Unit exams (2 @ 50 pts) = 100 points
  - Comprehensive Final Exam = 100 points
  - Labs = 90 points (drop lowest lab)
  - Weekly Moodle Homework = 90 points (drop lowest).
  - Homework: 60 points, reading and writing assignments will be given over the duration of the term
- Total = 440 points**

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

440-395	A
394.9-350	B
349.9-308	C
307.9-264	D
< 264	F

**Exams:** Exam 1 covers weeks 1-3. Exam 2 covers weeks 4-6. Exams will be given on Moodle and open during the entire week of each exam. Exam 1 (Week 4), Exam 2 (Week 7). **Comprehensive Final Exam:** Available on Moodle June 6<sup>th</sup>-12<sup>th</sup> to 1159PM.

**Labs:** Each week there is a lab. Labs will occur on **Thursdays**. All but one of the labs will include material from the lab packet. The only lab from the packet that we will not do is the **Volcanoes lab**. I will provide you with an assignment to complete for that lab. **Lab reports will be due on 1159PM of the Sunday following the lab day (Thursday).**

I will be recording labs 6, 7, and 9. I will post videos of the labs on Moodle for the week in which they occur. Use the videos to complete these labs. I will provide images for Lab 10 for the spectral analysis portion of the lab.

**Labs will be turned in on Moodle.** There will be a folder for each week's lab on Moodle. You will need to scan your completed lab work as a PDF file.

**CamScanner** is a popular application that can be used with any smart phone. Please contact me if you do not own a smart phone or do not have access to a scanner and we will make alternate arrangements.

Your lowest lab score will be dropped. **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 grades (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*. *The student takes 100% responsibility for completing any remaining coursework BEFORE the end of the following term as well as communicating this to me but submitting all work by that time. Failure to do so will cause the IN grade to change to an “F” grade.* .

### **Late Assignment Policy**

**Please** try to turn in the labs and homework before the deadline on Moodle. Due to the conditions created by the move to an online course, I can be flexible but I highly recommend that you do not put off doing lab work as they can be time consuming. My flexibility will hinge highly on you communicating with me about why you might need an extension.

## **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](http://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](#) 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](#). 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**

Please check [here](#) for updates to learning center operations related to the move to remote instruction/learning. The learning centers may be offering remote assistance during spring term but the page has not yet been updated with hours and access information as of 3/26/20.

### **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. The Learning Center will offer online hours

### **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	Tuesday (Lecture)	Thursday (Lab)
1	OER Ch. 3.4 HW1	Minerals	Lab 1: Minerals
2	OER Ch. 3.5 HW2	Rock Types	Lab 2: Rock Types
3	OER Ch. 4 HW 3	Plate Tectonics	Lab 3: Plate Tectonics
4	OER Ch. 5.12 through 5.18 HW 4	<b>Exam 1 due by 1159pm Sunday of week 4. Wks. 1-3 covered</b> Volcanoes (lecture)	Lab 4: Volcanoes-handout PDF on Moodle.
5	OER Ch. 5.2-5.11 HW 5	Earthquakes	Lab 5: Seismic Eruption
6	OER Ch. 7.2-7.5 HW 6	Rivers and Hydrological Systems	Lab 6 Stream Tables See <b>Video of lab on Moodle</b>
7	OER Ch. 8 HW 7	<b>Exam 2 due by 1159pm Sunday of week 7. Wks. 4-6 covered</b> The oceans: the seafloor, currents, and tides (Lecture)	Lab 7 Ocean Salinity <b>Video of lab on Moodle</b>
8	OER Ch.11 HW 8	Climate Change	Lab 8: Climate Change
9	OER Ch. 10 HW9	Weather	Lab 9: Weather Processes <b>Video of lab on Moodle</b>
10	OER Ch. 2 HW10	Astronomy	Lab 10: Astronomy Images on Moodle for part 2
Final		<b>FINAL EXAM</b>	Available on Moodle June 6-12 <sup>th</sup> .