Physical Science: Principles of Earth Science, GS 106 Fall 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
Office hours: TH 930AM-10AM and 430:5:00PM or by appointment
(***We can meet by phone, zoom, or text. Please email me to let me know your preferences***)
Office number: 541-224-4147
Best option to reach me is by e-mail or text.

Course Information

CRN: 226636
Scheduled time/days: 10:00AM-11:50am, Thursday
Number of credits: 4
Starts: 10/01/20
Ends: 12/13/2020

This is a ten-week course that will meet remotely on Thursday via Zoom Chat to work on labs with your peers that are a required part of this course. Attendance is required for this remote day. **The course manual for GS106 contains the labs and can be ordered from the LBCC** Bookstore. Summary lectures are available each week on Moodle. Many of the labs that are in the course packet are performed by me and videos of these labs are available on Moodle as well. If you are not active on Moodle during the first week, and do not attend the lab and lecture Zoom session I will drop you from the course for non-attendance unless you email me ahead of time to advise me of your plans. This is so students who forget to drop this course do not end up with a negative mark on their academic record when they do not do any of the course material.

Missing more than 2 labs will cause you to fail this course. This is a lab course and the labs are a major component.

Prerequisites: NONE

Course Materials

Optional:

- Minerals and Rock Kits (order from LBCC bookstore-no charge for shipping) for Lab 1 and 2 only. If you can afford it, do it. Otherwise watch the videos.

Required:

- Textbook: Foundations of Earth Science by Lutgens and Tarbuck, 8th ver., ISBN 978-0134184814, Pearson Publishing
- GS106 Course Packet 18/19 by Carter/LBCC (order from LBCC bookstore-no charge for

shipping)) also: Access to Moodle and Access to Excel and Internet/Moodle

Zoom Chat Video Access

Classroom: Online: Lectures and labs will be hosted by me on Zoom chat. Zoom is available to download here: https://zoom.us/download.

K. Sean Daniels is inviting you to a scheduled Zoom meeting.

Topic: 10AM 226636 GS106

Start Time: Oct 1, 2020 10:00 AM Pacific Time (US and Canada)

Every 10 weeks on Thursday at 10”00AM PST

Join Zoom Meeting

https://linnbenton.zoom.us/j/94694831772

Meeting ID: 946 9483 1772

Password: 244526

One tap mobile

+12532158782,,94694831772# US (Tacoma)

+13462487799,,94694831772# US (Houston)

Dial by your location

+1 253 215 8782 US (Tacoma)

+1 346 248 7799 US (Houston)

+1 669 900 6833 US (San Jose)

+1 301 715 8592 US (Germantown)

+1 312 626 6799 US (Chicago)

+1 646 876 9923 US (New York)

Meeting ID: 946 9483 1772

Find your local number: https://linnbenton.zoom.us/u/ab37xjArrR

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. *Plagiarism includes copying material from the internet and using it as answers to exam questions. Essay questions on exams must be answered using your own ideas and words. Instances of plagiarism will be reported directly to academic affairs. Consequences may range from loss of points on a question, loss of points on an exam, and other items detailed in the Student Code of Conduct.*

Testing

- All quizzes and exams will be held on Moodle
- I will provide you with study guides for each exam, exams are 1 hour long.

Grading

- Unit exams (2 @ 65 pts) = 130 pts
- Exam 3 = 75 pts.
- Labs = 90 pts (drop lowest lab)
- Weekly Moodle Homework = 90 pts (drop lowest).
  Total = 405 pts

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

346.5-405	A
308-346.4	B
269.5-307.9	C
231-269.8	D
< 231	F

Exams: Exam 1 covers modules 1-3. Exam 2 covers modules 4-6. Exam 3 covers modules 7-10. Exams will be given on Moodle and open during the entire week of each exam. Exam 1 (Week 4), Exam 2 (Week 7), Exam 3 (Finals Week).
Labs: Each week there is a lab. All of the labs will include material from the GS106

course packet. **Lab reports will be due on 1159PM Thursday.** Videos of some labs are on Moodle for the week in which they occur. Use the videos to complete these labs. Make sure you answer all of the questions asked in the labs. *Your lowest lab score will be dropped*. **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.

Cam Scanner is a popular application that can be used with any smart phone. This application allows you to take multiple pictures one after another and turn it into a single PDF file. Please make sure your lab submissions are in sequential order with page numbers included.

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 textbook. Exam material will be based off of lecture and lab material mostly.

- 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

Late labs are not accepted. I highly recommend that you do not put off doing lab work as some can be time consuming. My experience in teaching this course shows that students who work on labs earlier vs. later tend to outperform students who put labs off until the last minute.

Course Withdrawal: If you need to withdraw from the course, you may do so at any time before the withdrawal deadline for the term. International students should work with their advisers to ensure that they do no not drop below required course loads for student visa requirements prior to withdrawing. If you are not present at the first week lab/lecture sessions and do not login to Moodle during the first week you will be dropped from the course. This action is to prevent you from receiving a failing grade for a course that you may have intended to drop.

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 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 operation related to the move to remote instruction/learning. The learning centers offer remote assistance via Zoom chat.

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.

Course Schedule

- **Moodle Homework due Sunday at 11:59 pm (set yourself a reminder on your phone alarm)**
- **Exam material will come from Book, MHW and PDF lecture and lab material.**

Week	Reading/HW	Lecture	TH (Lab)
1	CH 1 HW1	**Minerals**	Lab 1: Minerals **Video of Lab on Moodle**
2	OH 2 HW2	**Rock Types**	Lab 2: Rock Types **See Images on Moodle**
3	CH 5, 6.3, 6.9- 6.10 HW 3	**Plate Tectonics**	Lab 3: Plate Tectonics Maps available on Moodle (print out the Physiographic Map of the Ocean)
4	CH 7 HW 4	**Exam 1 due by 1159pm Sunday of week 4. Modules. 1-3 covered** **Volcanoes**	Lab 4: Volcanic Explosivity **Video of lab on Moodle**.
5	CH 6.1-6.7 HW 5	**Earthquakes**	Lab 5: Seismology (not in lab packet, see Moodle)
6	CH 3-4 HW 6	**Geomorphology and Hydrology**	Lab 6 Stream Tables See **Video of lab on Moodle**
7	CH 9-10 HW 7	**Exam 2 due by 1159pm Sunday of week 7, Modules 4-6 covered.** **Oceanography**	Lab 7 Ocean Salinity **Video of lab on Moodle**
8	Lecture 8 PDF HW 8	**Climate Change**	Lab 8: Climate Change, Data for CO_2 on Moodle.
9	CH 11-14 HW9	**Weather**	Lab 9: Weather Processes **Video of Lab on Moodle**
10	CH 15-16 HW10	**Astronomy**	Lab 10: Astronomy **(Planets are places, include links and images)**
	FINALS WEEK	**Exam 3 due by 1159PM on Friday of FINALS WEEK. Modules 7-10 covered**	Available on Moodle Monday of Finals week. Closes Friday of finals week