

Syllabus: GS 106 Principles of Earth Science, Spring 2022

General Information:

Instructor Information and Availability

Instructor name: Sean Daniels

Phone number: 541-224-4147

E-mail address: daniels@linnbenton.edu

Response within 12 hours during weekdays unless there is a technical issue

Classroom Location: BC-207

Student Hours: By appointment, [email me](#) and we can set up a time. Alternatively you can schedule an appointment by signing up [here](#) to book time using my Google scheduler tool. Please let me know if you have scheduled a session by emailing me. If you schedule time five minutes after a class for instance, I may not see it in time to meet with you. I am fully willing to meet you via Zoom for coaching sessions!

Office number: 541-224-4147

Office location: Benton Center, Room BC 201 or remote via Zoom. Best option to reach me is by e-mail or text.

Course Information

GS106 Prerequisites: NONE

- **CRN: 41660: Number of credits: 4: Starts: 03/29/22 Tuesday, ends Sunday, 06/12/22**
- **Tuesdays: Zoom sessions, Thursdays: lab sessions**
- **This is a 10-week course** that will meet remotely on Tuesdays via Zoom Chat to work with your peers on material that will prepare you for **in person labs** that occur on Thursdays. Participation is required and will counted towards your final grade and you have to be "present" to participate in both Zoom Meetings and in Labs.
- If you are not active on Moodle during the first week, and do not attend the Zoom session or lab I will drop you from the course for non-attendance unless you contact me. This 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.

GS106 Course Materials:

Required:

- **Textbook:** **FREE!** Principles of Earth Science by Solada and Daniels is **free to download or view** at: <https://openoregon.pressbooks.pub/earthscience/>
- GS106 lab PDF's and Google Docs are available on Moodle for free in each lab folder.
- Access to Moodle, Excel, Internet/Moodle, Google Earth Pro (free to download)

Zoom Sessions

Tuesday, 10:00 AM - 11:20 AM, starting on Tuesday, 03/29/22 and every Tuesday for the next ten weeks thereafter. Attendance is required, group work will occur.

Zoom Sessions link: <https://linnbenton.zoom.us/j/98388390432>

Lab Sessions

- **Lab Sessions:** 10:00AM-11:50AM, starting on Thursday, 03/31/22 and every Thursday for the next ten weeks thereafter.
- **Lab Room:** Benton Center BC-207
- **Lab PDF's and Google Docs** will be available to you each week in the Lab Folders in Moodle. Lab material will be completed in lab sessions and you are expected to be present to do lab work. *Remote work on labs will not be allowed as this is a Face to Face lab course.*

Student Learning Outcomes

Understanding whether or not you meet the learning outcomes in this course is by far the most important thing that you can do. To do this, I recommend learning the material as if you were going to teach it to your peers rather than attempting to get a high grade. This approach has been quantitatively proven to improve student scores in a substantial manner. See the "Resources" section at the top of the Moodle course shell to see strategies that will help you improve your overall course grades using metacognition strategies!

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.

Learning Assessments and Grading

- Work will be graded and feedback provided within 72 hours of a due date
 - Unit exams and final project(3 @ 75 pts) = **225 pts.**
 - **Exam 1** covers modules 1-3. Exam opens in Week 4 and closes Friday of Week 4. Make sure you check the testing center hours prior to going in to take the exam to give yourself ample time. A 5"x7" note card is allowed.
 - **Exam 2** covers modules 4-6. Exam opens in Week 7 and closes Friday of Week 7. Make sure you check the testing center hours prior to going in to take the exam to give yourself ample time. A 5"x7" note card is allowed.
 - **Final Project** covers modules 7-10. A link to the Google Document that details the requirements and format of this group project is available in the "Finals Week" section of the course in Moodle.
 - **Exams will be provided for you to take at either the Albany or Benton Center testing centers. There is no time limit for taking the exam.**
 - Be sure that you can answer topics that fall under the learning objectives for each module/week's material.
 - Knowing the "key terms" list (which is found under "Resources" at the top of the Moodle course shell) and the processes that relate to them which we cover in labs will help you to answer related questions. There is also a link to old exams that may help you prepare in the Resources area.
 - **Labs = 200 pts Due Sundays at 11:59PM, Lab grading rubric can be found [here](#)**
 - This is a 4 credit **lab** course. You can't pass the course by missing more than 3 labs.
 - Weekly Moodle Quizzes = 100 pts (Due Sundays at 11:59PM) 20%
 - Course Participation: 100 pts (videos, attendance/group work) 20%
 - Worksheets 100 pts: Due Sunday by 11:59PM 20%
 - Application Questions 100 pts. Due Sunday by 11:59PM 20%
 - Forum Participation 100 pts 20%
- Final Grade Calculation:**
- A = 90-100% Excellent Work
 - B = 80-89% Good Work
 - C = 70-79% Average Work
 - D = 60-69% Poor Work
 - F = 0-59% Failing Work

Weekly Forums: Use the weekly forums in Moodle to post questions that you might have regarding labs, homework, exams, or technical issues. *One post and one reply is required for full points.* You can gain a possible total of **50 points** for regularly participating in weekly forum discussions. In the case that you don't have any questions or can't help your peers a link to topics with questions is provided in the Board in Moodle. You can answer the questions for each topic to gain the discussion points in this case. Your posts must have content-related questions or replies. This isn't a forum to get answers to questions, but it is a forum to discuss terms or other aspects of the course that you may not understand completely. If you want points but don't have questions you can do a short write up on the topics we cover each week by submitting a summary from [these](#) topics.

Labs:

- There is a lab rubric that you can view to see how each question is graded: [Lab Rubric](#).
- Each week there is a lab. All of the labs can be downloaded directly from the lab folders on Moodle each week. **Lab reports will be due on 1159PM Sunday.**
- **Labs will be turned in on Moodle.** (See Cam Scanner text below)
- There is a folder on Moodle each week to turn in/upload each week's lab to.
- You will need to scan your completed lab work and save as a PDF file.
- All labs must be turned in by you individually for grading on Moodle.
- **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 Moodle Quizzes:

- You will complete weekly quizzes **on Moodle**.
- These are always due on **Sunday at 11:59 pm**.
- HW Assignments 1-10 are based from reading from the textbook.

Worksheets:

- Worksheets are exercises that allow you to engage with topics
- These are always due on **Sunday at 11:59 pm**.
- We will work on these during our Zoom sessions, there are no wrong answers but you need to answer all questions for full credit on the worksheets

Application Questions

- These forms consist of a summary question on each topic that allows you to apply what you learned about the topic to a situation. Answers will be considered based

on how well you are able to make connections from the material of a topic to the question/situation.

- You will be graded on these and you will be given a chance to re-submit the forms for a higher score up to one week after the initial due date. The form will detail what your grade means and you can consider how you can improve your answer/comprehension and resubmit them for a higher score.
- These will be due on Sundays at 11:59PM and you can resubmit them one week later by 11:59PM for an updated score as you see fit.

Diversity Statement: <https://acue.org/inclusive-teaching-practices-toolkit/#sec8>

In my search for a statement that encompasses much of what I believe is important regarding diversity, I found a source that is provided in a video link above. I really liked what these instructors took the time to write and aim to follow these practices to the best of my ability. “I value the perspectives of individuals from all backgrounds, reflecting the diversity of our students. I broadly define diversity to include race, gender identity, national origin, ethnicity, religion, socio-class, age, sexual orientation, political background, and physical and learning ability. I strive to make this classroom an inclusive space for all students. If you see ways in which I can improve, please let me know”. A positive learning environment can be created by the below!

- Respect the dignity and essential worth of all individuals
- Promote a culture of respect for the college community
- Respect the privacy, property, and freedom of others
- Reject bigotry, discrimination, violence and intimidation of any kind
- Practice personal and academic integrity and expect it of others, and promote the diversity of opinions, ideas, and backgrounds, which is lifeblood of the college.

Academic Integrity Policy

Academic integrity is the principle of engaging in scholarly activity with honesty and fairness, and participating ethically in the pursuit of learning. Academic integrity is expected of all learners at LBCC. Behavior that violates academic integrity policies at LBCC includes cheating, plagiarism, unauthorized assistance or supporting others in engaging in academic dishonesty, knowingly furnishing false information, or changing or misusing college documents, among others. LBCC students are responsible for understanding and abiding by the College’s academic integrity policy.

Overall statement about importance of academic integrity.

1. You and your peers paid course fees to learn material that will be presented in this course. Students do not learn by simply copying text from websites and pasting that text as part of a

submission whether that is an exam, lab, or worksheet. Use your own words to answer questions. You only learn material by thinking about it!

2. I allow you to collaborate on lab work but your answers must be your own. For instance, if a group submits a lab and you all have the same exact wording for a question that has a hypothesis, that's not really demonstrating that you came up with your own hypothesis. Think about ways that you can creatively word your answers so that they are unique to you!

3. You are free to answer questions on exams with information from your textbook or the lecture material but please state your source if you do this. Again, it's much better to think about what you read and record that instead of just paraphrasing the exact text of what you read. I'm not grading you on grammar! If you can describe something using your own unique way of describing it and it makes sense, I will give you credit.

4. Academic integrity means that your work is your own. Behavior that violates academic integrity policies at LBCC includes cheating, **plagiarism** (Miriam Webster defines plagiarism as: "to steal and pass off (the ideas or words of another) as one's own : use (another's production) without crediting the source), unauthorized assistance or supporting others in engaging in academic dishonesty, knowingly furnishing false information, or changing or misusing college documents, among others. LBCC students are responsible for understanding and abiding by the College's academic integrity policy. You can find the Student Code of Conduct [here](#). LBCC students are responsible for understanding and abiding by the College's academic integrity policy.

5. Students who have been found to be in violation of the Student Code of Conduct can expect to receive a warning from me, and a zero on any question. Second offenses will receive the same as the first as far as actions go but the student may also receive a zero on the entire assignment or exam and will be reported to Student Affairs where a record of the offense may be recorded on your academic record. Folks, it's not worth it. You paid money to learn so avoid the above at all costs to you get the bang for your bucks.

6. If you don't understand what any of the above means in detail, please contact me by email at daniels@linnbenton.edu and we can have a candid discussion about these topics.

Tips for Success in this class

Some of you may have been attending classes in college for some time, while for other students, this may be your first or second term at the college. I have taught Earth Science for over four years and this course has been adapted and changed over those years to create a more accessible and inclusive atmosphere that should lead to your success in learning about the subject. Some key strategies that have led prior students to succeed in this and other courses include the following:

1. Show up. This is actually half of the entire success recipe in academia. If you show up, you are less likely to miss things.
2. Be prepared. This means that you look at the material in this course before class sessions so that new knowledge that is presented to you is not 100% new, you have a baseline familiarity with new terms and concepts.
3. Write down new knowledge. The simple act of writing something down helps your brain to develop new pathways that allow it to incorporate new material into your knowledge base.
4. Don't be afraid to ask your instructor to repeat things that you might have missed, we are here to help you succeed. Repetition of concepts, and terms also helps your brain to grasp ideas.
5. Don't be afraid to ask your instructor to slow down if they are going too fast for you.
6. Take advantage of office hours or scheduling Zoom meetings with your instructor. I can't tell you enough how students who took advantage of one on one tutoring were able to get over the knowledge/learning hump in various topics over the years.
7. Check your LBCC e-mail on a regular basis for updates and announcements that an instructor may post during the week.
8. Make a study plan. Write down when labs, homework, and exams are due so that you can plan your work in a manner that works with your busy schedule.
9. Don't put off doing work until the last minute. Working on labs and preparing for exams a little bit each day allows you to slowly incorporate information into your learning process, whereas doing a lot of work at the last second to meet a deadline doesn't allow your brain the time it needs to absorb information.
10. Read the feedback that I give to you in Moodle on your work, you will be able to see where you had a misconception, and modify your perception accordingly so you understand a concept more completely for assessments.
11. If you have a life conflict, that is holding you back, please contact me to talk about it, and how we can make a plan that might help you succeed and remove barriers to learning. There are many options available to you through the college, and I am more than happy to help you as I can, or to lead you to resources that you may not know about which are offered by the college that will help you to succeed in your learning goals while you are attending LBCC.

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 until Sunday night as some labs can be time consuming. Try to complete them during lab time and do any remaining work as soon as possible after lab.

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 not drop below required course loads for student visa requirements prior to withdrawing.

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.

[Equal Opportunity and Non-Discrimination Policy](#)

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.

Basic Needs Statement:

Any student who has difficulty affording food or finding a safe and stable place to live, or who needs assistance with resources for transportation, childcare, etc., is urged to contact the [Roadrunner Resource Center](#) for support and referral to community resources. Also, please talk with your instructor if you are comfortable doing so. This can help them direct you to the appropriate office and resource.

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

In an emergency, call 911. Also, call LBCC Public Safety and Loss Prevention Office at 541-926-6855 and 541-917-4440.

From any LBCC phone, you may alternatively dial extension 411 or 4440. LBCC has a [public safety app](#) available for free. We encourage people to download it to their cell phones. Public Safety also is the home for LBCC's Lost & Found. They provide escorts for safety when needed. Visit them to learn more.

Campus Resources

The Learning Center

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.

Library

Computers and printing available, other ways the library could help your student with this class

Student Resource Guide:

The below link will take you to all of the resources that LBCC has available to you as a student. There are quite a few! Please have a look: https://docs.google.com/document/d/1cgNhy-Rd35zVZf9J_1gwH-8_XgUjmgVRXZRMVux-oM/edit

- The Library can't currently offer our standard **course reserves** service for textbooks because books must be quarantined between users.

- Students can **request up to 30 pages of scanned materials** in our collection (including reserves) [through this form](#).
- Students can find information about requesting the **loan of a laptop or internet hot spot** in the "Access to Library Laptops and Internet Hotspots" box [on this page](#).

Roadrunner Resource Center

- Do you need help with financial resources to stay in school or technology and course materials you need to participate in your classes but cannot afford right now?
- The Roadrunner Resource Center is available to help remove barriers that might prevent students from staying in school and reaching their dreams.
- If you can't afford the technology or course materials you need for the whole term, the center can help you to obtain your own resources, technology, or devices for school.

Roadrunner Resource Center Contact Information

- Email: resources@linnbenton.edu.
- Online Portal: Fill out the Single Stop screener here: <https://linnbentonccalbany.singlestoptechnologies.com/> Phone: **541-917-4877**

Important Dates

- Last day to withdraw with a "W" 05/15/22
- Last day of Spring Term: 06/10/22

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

Week	Reading/Media	Assignments	Topics and Exams	Labs
Week 1	Chapter 1 and Moodle Videos	HW1, Worksheet 1, Weekly Forum, Videos, Application Questions	The Scientific Method and Topographic Maps	Lab 1 Topographic Maps
Week 2	Chapter 2, Moodle Videos	HW2, Worksheet 2, Weekly Forum, Videos, Application Questions	Astronomy	Lab 2 Astronomy
Week 3	Chapters 3-6, Moodle Videos	HW3, Worksheet 3, Weekly Forum, Videos, Application Questions	Rock Types	Lab 3 Rock Types
Week 4	Chapter 7, Moodle Videos	HW4, Worksheet 4, Weekly Forum, Videos, Application Questions	Plate Tectonics Exam 1 due Friday of Week 4	Lab 4 Plate Tectonics
Week 5	Chapter 8, Moodle Videos	HW5, Worksheet 5, Weekly Forum, Videos, Application Questions	Volcanoes	Lab 5: Volcanoes
Week 6	Chapter 9, Moodle Videos	HW6 Worksheet 6, Weekly Forum, Videos, , Application Questions	Earthquakes	Lab 6 Earthquakes
Week 7	Chapters 10-11, Moodle Videos	HW7 Worksheet 7, Weekly Forum, Videos, Application Questions	Exam 2 due Friday of Week 7 River Systems	Lab 7 Stream Tables
Week 8	Chapter 15 Moodle Videos	HW8, Worksheet 8, Weekly Forum, Videos, Application Questions	Weather	Lab 8 Weather
Week 9	Chapter 16 Moodle Videos	HW9 Worksheet 9, Weekly Forum, Videos, Application Questions	Climate Change	Lab 9 Climate Change, take home lab, see Moodle for lab information and CO ₂ data
Week 10	Chapter 17	HW10, Worksheet 10, Weekly Forum, , Application Questions	Humans' Relationship to Earth Processes	Lab 10: Humans Relationship to Earth Processes
FINALS WEEK			Final Project due on 6/8/22	

Zoom Meeting Information

Topic: GS106 F2F Tuesday Zoom Meeting Spring 2022, CRN 41660

<https://linnbenton.zoom.us/j/98388390432>

Meeting ID: 983 8839 0432

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 (Washington DC)

+1 312 626 6799 US (Chicago)

+1 646 876 9923 US (New York)

Meeting ID: 983 8839 0432

Find your local number: <https://linnbenton.zoom.us/u/aBdkPS4pz>

Topic: GS106 Winter 2022

Time: 12:30PM Tuesdays starting January 4th and every Tuesday thereafter for 10 weeks.

Join Zoom Meeting: <https://linnbenton.zoom.us/j/91824860280>

Meeting ID: 918 2486 0280

One tap mobile

+12532158782,,91824860280# US (Tacoma)

+13462487799,,91824860280# 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 (Washington DC)

+1 312 626 6799 US (Chicago)

+1 646 876 9923 US (New York)

Meeting ID: 918 2486 0280

Find your local number: <https://linnbenton.zoom.us/u/ayulxa873>