CoSM Class Syllabus / Policy

2020 / Fall Semester
GEOL 1001 Laboratory
Fundamentals of Earth Science

Name: Mr. Wesley Turner
Department: Geology
Email: turnerwl@sfasu.edu
Phone: 936-468-1049
Office: E.L. Miller Science, Room 307

Virtual Office Hours: By Student Appointment over Zoom; email through MySFA or D2L to schedule

Class meeting time and place: This course is being delivered in a hybrid method. Class will not physically meet but will be completed online via the D2L/BrightSpace platform. At the scheduled time of lab, Graduate Teaching Assistant will be available to meet with students via Zoom.

Please feel free to contact me or your TA any time to ask questions, discuss any problems you may be having with the material or to help facilitate further understanding.

Course Description:
Fundamentals of Earth Science (GEOL 1001) Two hours lecture, two hours laboratory per week. This course is designed as an introduction to the fundamental principles of Earth Science. Topics include the earth’s structure and surface landforms; mineral and energy resources; geologic hazards such as volcanoes, earthquakes and landslides; water resources; and the unifying theory of plate tectonics. No prerequisites.

SFA Mask Policy:
Although our class will be online and not meet physically, masks (cloth face coverings) must be worn over the nose and mouth at all times in enclosed areas and appropriate physical distancing must be observed. Students not wearing a mask and/or not observing appropriate physical distancing will be asked to leave the class/building. All incidents of not wearing a mask and/or not observing appropriate physical distancing will be reported to the Office of Student Rights and Responsibilities. Students who are reported for multiple infractions of not wearing a mask and/or not observing appropriate physical distancing may be subject to disciplinary actions.


Program Learning Outcomes:
There are no specific program learning outcomes for this major addressed in this course. It is a general education core curriculum course and / or a service course.

General Education Core Curriculum
The Texas Higher Education Coordinating Board has identified six core learning objectives: Critical Thinking Skills, Communication Skills, Empirical and Quantitative Skills, Teamwork, Personal Responsibility, and Social Responsibility. SFA is committed to the improvement of its general education core curriculum by regular assessment of student performance on these six objectives.

Student Learning Outcomes for Lecture and Lab:
After successful completion of this course students will be able to:

SLO 1. Demonstrate an understanding of fundamental geologic concepts as it relates to Earth processes and landscape evolution through geologic time. (Critical Thinking, Empirical and Quantitative Skills)

SLO 2. Use quantitative reasoning to interpret geologic data (tables, figures, graphs) from primary research, data assimilation and models to assess the differences in competing scientific theories associated with rock formation. (Critical Thinking, Empirical and Quantitative Skills)

SLO 3. Demonstrate knowledge on the interdependence of science and technology and the influences geologic reasoning associated with identifiable and testable hypotheses of geologic processes. (Critical Thinking, Teamwork)

SLO 4. Critically assess the interrelationships between geologic phenomena and communicate the resulting conclusions in oral, visual and written formats. (Critical Thinking, Communication, Empirical and Quantitative Skills, Teamwork)

SLO 5. Demonstrate an understanding of the skills and attitudes necessary for effective teamwork in collaborative learning activities. (Communication, Teamwork)

Text and Materials:

*Fundamentals of Earth Science Laboratory Manual* (available in all SFA bookstores)

The lab manual is required and will be needed the first day of lab activities, the week of August 31st.

A new lab manual must be purchased from the bookstores. Each new lab manual contains perforated quiz pages that will periodically be turned in to get credit for the weekly in-class lab quizzes.

Rock and Mineral Identification Kit:
To assist in facilitating understanding of the rock and mineral samples, a rock and mineral identification kit can be purchased. This LabPaq is recommended but not required. In lieu of this kit, virtual samples are used.

Hands-On Labs Student Ordering Instructions:

Go To: http://www.holscience.com
Click: “Order Here”
Log In: C000732
Password: labpaq
Under GENRAL LAB SUPPLIES: Click on Geology (make sure not to order the chemistry kit)
Add to Cart these 2 items:
10-0035-00-01 Rock Set, Variety (49 pcs)
21-0145-00-01 Assy, Mineral Identification

Course Requirements:
This class is a 3-credit hour course and has a weekly requisite lab where students will gain experience with earth materials, gathering and analyzing data, communicating their findings and working as a team to explain scientific processes. Grades from the lecture and lab will be averaged, with the lab counting 1/3 of the grade. You will receive one grade for the entire course, assigned by your lecture instructor.

Attendance Policy:
This course is being delivered primarily online. Attendance during the scheduled times is not mandatory. However, the course is not completed at your own pace. The primary lab material will open each
Fall 2020 SFASU GEOL 1001 Laboratory

week on Tuesdays at 12:01 AM and will close on Fridays at 11:59 PM. The lab material must be completed during this time.

Laboratory Exercises:
Weekly laboratory exercises will reinforce lecture material with practical exercises designed to enhance specific General Education Core Curriculum Objectives. Each week, students will be introduced to these core objectives in the form of exercises and electronic assignments delivered through the SFA platform Desire2Learn (d2l). Students will be responsible for accessing and completing pertinent materials from d2l.

Each week, the student will be responsible for:

1. Required reading of the upcoming chapter in the lab book to help prepare for the laboratory exercises.
2. A weekly requisite electronic pre-quiz administered through d2l before the laboratory meeting to ensure the student is prepared for the laboratory exercises.
3. Laboratory exercises completed during the primary lab period, from Tuesday to Friday. During the laboratory exercises, students will work individually and in teams to complete the “in-class” assignments.
4. Weekly mineral/rock worksheets that are used to identify physical properties and classification of samples.
5. A weekly “in-class” quiz to test comprehension of the laboratory exercises.
6. A weekly requisite electronic post-quiz administered through d2l after the laboratory meeting to ensure retention of the material.

The electronic quizzes will help to prepare you for the lab exercises assigned the following week and reinforce the material covered in the laboratory exercises. The pre-quizzes will cover selected reading material assigned, the post-quizzes will help students synthesize the material and retain the information. All quizzes, both electronic and in-class, should be taken individually. The electronic quizzes will open on Friday at 12:00 a.m. and remain available until Monday at 12 midnight of the following week. Since the electronic quizzes will be open for several days and are available 24 hours a day during the open period, makeup quizzes must be completed within 2 weeks of the regularly scheduled due date.

Grading Policy
Your laboratory grade will consist of the following:

- Weekly laboratory exercises (11 exercises @ 10 points each) 110
- Weekly Mineral/Rock Worksheets (4 worksheets @ 10 points each) 40
- Weekly electronic pre-quizzes (11 quizzes @ 5 points each) 55
- Weekly electronic post-quizzes (9 quizzes @ 5 points each) 45
- Online exams (Midterm and Final Exam, 25 points each) 50
- In-class exams (Midterm and Final Exam, 100 points each) 200

Total Points 500

Grades for laboratory classroom activities, exams, and electronic assignments will be delivered through d2l.

You will not receive a separate grade for your lab performance. Your laboratory average will be sent to your lecture instructor and your final grade for the course will be assigned by your lecture instructor. Lab
grades will be posted using Desire2Learn (d2l), which can be accessed through https://d2l.sfasu.edu. You may log in using your mySFA username and password.

**Missed Work and Make-up Exams:**
It is the responsibility of the student to find out the date and time of the exams. The Laboratory Coordinator can provide that information. All quizzes/exams must be made up **NO LATER THAN 2 WEEKS AFTER REGULARLY SCHEDULED TIME. In order to make-up exams or classroom quizzes past 2 weeks, you must have an EXCUSED ABSENCE.**

**Academic Integrity (A-9.1)**
Academic integrity is a responsibility of all university faculty and students. Faculty members promote academic integrity in multiple ways including instruction on the components of academic honesty, as well as abiding by university policy on penalties for cheating and plagiarism.

**Definition of Academic Dishonesty**
Academic dishonesty includes both cheating and plagiarism. Cheating includes but is not limited to (1) using or attempting to use unauthorized materials to aid in achieving a better grade on a component of a class; (2) the falsification or invention of any information, including citations, on an assigned exercise; and/or (3) helping or attempting to help another in an act of cheating or plagiarism. Plagiarism is presenting the words or ideas of another person as if they were your own. Examples of plagiarism are (1) submitting an assignment as if it were one's own work when, in fact, it is at least partly the work of another; (2) submitting a work that has been purchased or otherwise obtained from an Internet source or another source; and (3) incorporating the words or ideas of an author into one's paper without giving the author due credit.

Please read the complete policy at [http://www.sfasu.edu/policies/academic_integrity.asp](http://www.sfasu.edu/policies/academic_integrity.asp)

**Withheld Grades Semester Grades Policy (A-54)**
Ordinarily, at the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the grade point average.

The circumstances precipitating the request must have occurred after the last day in which a student could withdraw from a course. Students requesting a WH must be passing the course with a minimum projected grade of C. **Since the student will not receive a separate grade for their participation in the lab, students requesting a WH must petition their lecture instructor for a withheld grade.**

**Students with Disabilities**
To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. For additional information, go to [http://www.sfasu.edu/disabilityservices/](http://www.sfasu.edu/disabilityservices/).
First Aid Information:
Dilute hydrochloric acid (10%) may be used in this lab to assist in mineral identification.

FIRST AID:
- **EYE CONTACT:** If eye contact occurs, flush eyes with plenty of running water and continue for at least 15 minutes. Get medical attention if irritation persists.
- **SKIN CONTACT:** Flush affected skin area with water. Wash with soap and water. If irritation occurs, consult a physician.

Helpful Numbers:

<table>
<thead>
<tr>
<th>Campus Information</th>
<th>468-4696</th>
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<tbody>
<tr>
<td>Student Help Desk</td>
<td>468-4357</td>
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<tr>
<td>Desire2Learn Help</td>
<td>468-1919</td>
</tr>
<tr>
<td>Geology Department</td>
<td>468-3701</td>
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<tr>
<td>Laboratory Coordinator</td>
<td>468-2236</td>
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Emergency Numbers:

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<thead>
<tr>
<th>Campus Police</th>
<th>468-2608</th>
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<tr>
<td>Emergency</td>
<td>911</td>
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<tr>
<td>SFA Health Clinic</td>
<td>468-4008</td>
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<tr>
<td>Poison Control Center</td>
<td>800-222-1222</td>
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<tr>
<td>Domestic Violence &amp; Rape Crisis Hotline</td>
<td>800-828-7233</td>
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# Fall 2020 Course Calendar:

## GEOL 101 Lab Fundamentals of Geology Calendar

<table>
<thead>
<tr>
<th>Week Dates</th>
<th>Chapter/Module</th>
<th>Assignments (all times are CST)</th>
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</thead>
<tbody>
<tr>
<td>Week 1</td>
<td>Getting Started Pre-Lab Material</td>
<td>Read Syllabus, Watch Intro Videos Post-Quiz 1 Opens 8/24</td>
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<tr>
<td>8/24 - 8/28</td>
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<tr>
<td>Week 2</td>
<td>Chapter 1: Introduction to Minerals</td>
<td>Pre-Quiz 1 Due 8/31 @ 11:59 PM Mineral Worksheet 1 Due 9/4 @ 11:59 PM In-Class Quiz 1 9/1 - 9/4 Post-Quiz 1 and Pre-Quiz 2 Opens 9/4</td>
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<tr>
<td>8/31 - 9/4</td>
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<tr>
<td>Week 3</td>
<td>Chapter 2: Sediment and Erosion</td>
<td>Post-Quiz 1 and Pre-Quiz 2 Due 9/7 @ 11:59 PM In-Class Quiz 2 9/8 - 9/11 Post-Quiz 2 and Pre-Quiz 3 Opens 9/11</td>
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<tr>
<td>9/7 - 9/11</td>
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<tr>
<td>Week 4</td>
<td>Chapter 3: Sedimentary Rocks</td>
<td>Post-Quiz 2 and Pre-Quiz 3 Due 9/14 @ 11:59 PM Sedimentary Rock Worksheet Due 9/18 @ 11:59 PM In-Class Quiz 3 9/15 - 9/18 Post-Quiz 3 and Pre-Quiz 4 Opens 9/18</td>
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<tr>
<td>9/14 - 9/18</td>
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<tr>
<td>Week 5</td>
<td>Chapter 4: Igneous Rocks</td>
<td>Post-Quiz 3 and Pre-Quiz 4 Due 9/21 @ 11:59 PM Igneous Rock Worksheet Due 9/25 @ 11:59 PM In-Class Quiz 4 9/22 - 9/25 Post-Quiz 4 and Pre-Quiz 5 Opens 9/25</td>
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<td>9/21 - 9/25</td>
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<tr>
<td>Week 6</td>
<td>Chapter 5: Metamorphic Rocks</td>
<td>Post-Quiz 4 and Pre-Quiz 5 Due 9/28 @ 11:59 PM Metamorphic Rock Worksheet Due 10/2 @ 11:59 PM In-Class Quiz 5 9/29 - 10/2 Online Midterm Exam Opens 10/2</td>
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<td>9/28 - 10/2</td>
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## Unit 2: Earth in Society

<table>
<thead>
<tr>
<th>Week 7</th>
<th>Midterm Exam</th>
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<tr>
<td>10/5 - 10/9</td>
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**Online Midterm Exam Due 10/5 @ 11:59 PM**  
**In-Class Midterm Available 10/6 - 10/9 @ 11:59 PM**  
**Pre-Quiz 6 Opens 10/9**

<table>
<thead>
<tr>
<th>Week 8</th>
<th>Chapter 6: Earthquakes and Seismology</th>
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<tbody>
<tr>
<td>10/12 - 10/16</td>
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**Pre-Quiz 6 Due 10/12 @ 11:59 PM**  
**Chapter 6 Exercise Due 10/16 @ 11:59 PM**  
**In-Class Quiz 6 10/13 - 10/16**  
**Post-Quiz 6 and Pre-Quiz 7 Opens 10/16**

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<thead>
<tr>
<th>Week 9</th>
<th>Chapter 7: Powering our Planet; Fossil Fuels</th>
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<tbody>
<tr>
<td>10/19 - 10/23</td>
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**Post-Quiz 6 and Pre-Quiz 7 Due 10/19 @ 11:59 PM**  
**In-Class Quiz 7 10/20 - 10/23**  
**Post-Quiz 7 and Pre-Quiz 8 Opens 10/23**

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<thead>
<tr>
<th>Week 10</th>
<th>Chapter 8: Rock and Mineral Resources</th>
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<tbody>
<tr>
<td>10/26 - 10/30</td>
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**Post-Quiz 7 and Pre-Quiz 8 Due 10/26 @ 11:59 PM**  
**In-Class Quiz 8 10/27 - 10/30**  
**Post-Quiz 8 and Pre-Quiz 9 Opens 10/30**

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<thead>
<tr>
<th>Week 11</th>
<th>Chapter 9: Streams and Rivers; Hydroelectric Power</th>
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<tbody>
<tr>
<td>11/2 - 11/6</td>
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**Post-Quiz 8 and Pre-Quiz 9 Due 11/2 @ 11:59 PM**  
**In-Class Quiz 9 11/3 - 11/6**  
**Post-Quiz 9 and Pre-Quiz 10 Opens 11/6**

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<thead>
<tr>
<th>Week 12</th>
<th>Chapter 10: Groundwater; Geothermal Energy</th>
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<tbody>
<tr>
<td>11/9 - 11/13</td>
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**Post-Quiz 9 and Pre-Quiz 10 Due 11/9 @ 11:59 PM**  
**In-Class Quiz 10 11/10 - 11/13**  
**Post-Quiz 10 and Pre-Quiz 11 Opens 11/13**

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<thead>
<tr>
<th>Week 13</th>
<th>Chapter 11: Alternative Energy</th>
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<tbody>
<tr>
<td>11/16 - 11/20</td>
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</table>

**Post-Quiz 10 and Pre-Quiz 11 Due 11/16 @ 11:59 PM**  
**In-Class Quiz 11 11/17 - 11/20**  
**Online Final Exam Opens 11/20**
**Week 14**  
**11/23 - 11/27**  
Thanksgiving Break NO LABS

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<thead>
<tr>
<th>Week 15</th>
<th>Final Exam</th>
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</table>
| 11/30 - 12/4 | **Online Final Exam Due 11/30 @ 11:59 PM**  
**In-Class Final Exam Available 12/1 - 12/4 @ 11:59 PM** |

**Dates and times/assignments are subject to change**