Class meeting time and place: Room 302 or 308 Miller Science, varies according to section.

The laboratory classes will be staffed by Graduate Teaching Assistants. The labs will begin on the 2nd week of school. Each teaching assistant will post their office room number, phone number, and office hours. If these times conflict with the schedule of a student, appointments may be made with the teaching assistant. Grades CANNOT be given out over the phone or through email.

Please feel free to stop by any time to ask questions, discuss any problems you may be having with the material or to help facilitate further understanding. If these hours conflict with your schedule, please call or email to make an appointment.

Course Description:
Fundamentals of Earth Science (GOL 101) 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. Required lab fee. No prerequisites.

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 Objectives/Outcomes:
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. By enrolling in GOL 101 Fundamentals of Earth Science, you are also enrolling in a Core Curriculum Course that seeks to develop the following core objectives established by the THECB:

- **Critical Thinking Skills** – creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.
- **Communication Skills** – effective development, interpretation and expression of ideas through written, oral and visual communication.
- **Empirical and Quantitative Skills** – manipulation and analysis of numerical data or observable facts resulting in informed conclusions.
- **Teamwork** – the ability to consider different points of view and to work effectively with others to support a shared purpose or goal.
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)

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.

By enrolling in GOL 101 Lab you are also enrolling in a Core Curriculum Course that fulfills the Critical Thinking Skills requirement. You will see this course on your D2L list. At one point during the semester, you will receive an assignment that fulfills both the requirements of this course and the needs of Stephen F. Austin State University’s Core Curriculum Assessment Plan with the Texas Higher Education Coordinating Board. When you complete this one assignment, you need to upload the assignment to both your standard course dropbox determined by your Instructor and the “Core Curriculum” dropbox. The Core Curriculum dropbox will be identified by the Objective for which work is being collected. (Examples: Critical Thinking, Teamwork, Social Responsibility Empirical & Quantitative Skills, Personal Responsibility, Communication Skills-Written, Communication Skills-Written & Visual, and Communication Skills- Oral & Visual.) Please note that this only applies to the approved assignment. All other assignments should be submitted according to regular class operations. If you have any questions, please see your Instructor or the Office of Student Learning and Institutional Assessment.

When you complete the assignment mentioned above, you will upload the assignment to both the GOL 101 Lab D2L dropbox and the Critical Thinking Skills dropbox.

Please note that this only applies to the specific assignment listed in the matrix below. All other assignments should be submitted according to regular class operations.

If you have any questions, please see your instructor or contact the Institutional Effectiveness Office at (936) 468-1130.
The chart below indicates the core objectives addressed by this course, the assignment(s) that will be used to assess the objectives in this course and uploaded to the D2L Critical Thinking Skills dropbox this semester, and the date the assignment(s) should be uploaded to the D2L Critical Thinking Skills dropbox. Not every assignment will be submitted for core assessment every semester. Your instructor will notify you which assignment(s) must be submitted for assessment in the D2L Critical Thinking Skills dropbox.

<table>
<thead>
<tr>
<th>Core Objective</th>
<th>Definition</th>
<th>Course Assignment Title</th>
<th>Date Due in D2L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Critical Thinking</td>
<td>To include creative thinking, innovation, inquiry, and analysis,</td>
<td>Earthquake Analysis</td>
<td>April 22nd at Midnight</td>
</tr>
<tr>
<td>Skills</td>
<td>evaluation and synthesis of information.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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, the week of January 29th.

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

Course Requirements:
This class is a 3-credit hour course and has a weekly requisite lab where students will gain hands-on 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.

*** Due to the distraction that they provide, laptops will not be allowed unless you have a directive from Disability Services. No exceptions!!

Attendance Policy:
Attendance is mandatory for understanding the material and participating in class. Opportunities for make-up exercises/exams must be approved by the Laboratory Coordinator for EXCUSED absences only. The following constitutes an excused absence:

- Illness: note from doctor for day of the lab.
- Death in Family: must be documented by obituary clipping from newspaper or funeral home.
- Jury Duty: must be documented by note from judge or other court official.
- School Function: name must appear in Faculty Bulletin or note must be sent from instructor, coach, etc.

After a student has missed more than 3 labs, 10 points will be deducted from the final lab average for each additional absence. Two times tardy to class will count as one absence. You are expected to come to lab, to be on time, and to stay for the duration of the lab. Whenever it is possible, arrangements should be made **BEFORE** the lab time so that provisions can be made.
If you become ill or have a restroom emergency during the lab period, please excuse yourself quietly. If you need to study for another class or read the paper, the library is available. If you need to nap, that is best done at home – not in the classroom. If you are sleeping or reading other material, you cannot be participating and I will assume you to be absent in mind and spirit, if not in body, for the day. Use your time wisely and learn how to plan ahead.

**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 classroom 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 in class. During the laboratory exercises, students will work individually and in teams to complete the in-class assignments.
4. A weekly in-class quiz to test comprehension of the laboratory exercises.
5. 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 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
- Mandatory Core Curriculum Assignment (1 @ 25 points) 25
- In-class exams (Midterm and Final Exam, 100 points each) 200

Total Points 485

Major exams will consist of two parts: an online exam delivered through the d2l platform and a classroom exam during the laboratory period. 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:
All make-up exams are departmental and will be given at one time. It is the responsibility of the student to find out the date and time of the exam. 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.

Each lab must be completed during the lab period. You must be present for the entire lab in order to turn in the lab exercise at the conclusion of the lab. Cell phones, tablets, and other electronic devices are NOT permitted during the class or exams. If you are using them in an exam, it will be assumed that you are cheating and you will receive a grade of “0” on that exam. If you are using them in class, you will be asked to leave.

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

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/.

First Aid Information:
Dilute hydrochloric acid (10%) will 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:  
Campus Information  468-4696  
Student Help Desk  468-4357  
Desire2Learn Help  468-1919  
Geology Department  468-3701  
Laboratory Coordinator  468-2236

Emergency Numbers:  
Campus Police  468-2608  
Emergency  911  
SFA Health Clinic  468-4008  
Poison Control Center  800-222-1222  
Domestic Violence & Rape Crisis Hotline  800-828-7233
# GOL 101 Fundamentals of Earth Science  
## Spring 2019 Laboratory Schedule

<table>
<thead>
<tr>
<th>Chapter</th>
<th>Laboratory Topic</th>
<th>Dates</th>
</tr>
</thead>
</table>
| Chapter 1  
pages 1-18 | Introduction to Minerals                     | 1/29 - 1/31  |
| Chapter 2  
pages 19-30 | Sediment and Erosion                         | 2/5 - 2/7     |
| Chapter 3  
pages 31-46 | Sedimentary Rocks                            | 2/12 - 2/14   |
| Chapter 4  
pages 47-62 | Igneous Rocks and Volcanoes                  | 2/19 - 2/21   |
| Chapter 5  
pages 63-76 | Metamorphic Rocks                            | 2/26 - 2/28   |
| Chapters 1-5 | Midterm Exam                               | 3/5 - 3/7     |
| Chapter 6  
pages 77-94 | Earthquakes and Seismology                   | 3/12 - 3/14   |
| Chapter 7  
pages 95-108 | Powering our Planet; Fossil Fuels           | 3/26 - 3/28   |
| Chapter 8  
pages 109-126 | Rock and Mineral Resources; Coal Mining      | 4/2 - 4/4     |
| Chapter 9  
pages 127-144 | Streams and Rivers; Hydroelectric Power      | 4/9 - 4/11    |
| Chapters 6-11 | Final Exam (classroom)                     | 5/7 - 5/9     |

**AND QUizzes ARE SUBJECT TO CHANGE!**