CoSM Class Syllabus / Policy

2021 / Summer I Semester
GEOL 5175.001
Field Geology

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Office: E.L. Miller Science, Room 310  
Office Hours: TBA  
Class meeting time and place: off campus

Course Description:

Field Geology (GEOL 5175.001) – Three semester hours. This course provides an introduction to methods and applications of geologic field techniques. Emphasis on reconnaissance, detailed mapping, and report preparation.

Number of Credit Hours: Three semester hours

Student Learning Outcomes:

The student is expected to:

1. Recognize, identify, and describe rocks in the field.
2. Use a Brunton compass to take geologic measurements and collect data in the field.
3. Produce a geologic map of an area.
4. Construct a geologic cross section.
5. Determine the geologic events that have occurred in an area.
6. Prepare a geologic report

Text and Materials:

Reference material, field notebooks, field equipment, drafting and camping equipment

Outline of Topics:

- Strike and dip of bedding
- Collection of geologic data in the field
- Mapping of geology
- Construction of cross sections
Field Geology

- Producing geologic reports
- Generation of a geologic history
- Identification of rock and fossils
- Stratigraphic correlation
- Identification of structural features

**Course Requirements:**

GEOL 5175.004 will have three major field exercises, and several small projects.

**The Federal Definition of the Credit Hour:** a credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates not less than one hour of classroom or direct faculty instruction and a minimum of two hours out of class student work each week for approximately fifteen weeks for one semester of credit.

**Course Calendar***:

<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Location</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 15</td>
<td>Central Texas Geology</td>
<td>Lake Whitney, TX</td>
<td>25</td>
</tr>
<tr>
<td>May 16</td>
<td>Llano Uplift</td>
<td>Llano River Bridge, TX</td>
<td>25</td>
</tr>
<tr>
<td>May 17</td>
<td>Central Texas Geology</td>
<td>Junction, TX</td>
<td>25</td>
</tr>
<tr>
<td>May 18</td>
<td>Llano Uplift</td>
<td>Enchanted Rock, TX</td>
<td>25</td>
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<tr>
<td></td>
<td>Central Texas Geology</td>
<td>Hoover Point, TX</td>
<td>10</td>
</tr>
<tr>
<td>May 19</td>
<td>Central Texas Geology</td>
<td>Pedernales Falls, TX</td>
<td>25</td>
</tr>
<tr>
<td>May 20</td>
<td>West Texas Geology</td>
<td>Marathon, TX</td>
<td>10</td>
</tr>
<tr>
<td>May 21</td>
<td>West Texas Geology</td>
<td>Fort Davis, TX</td>
<td>25</td>
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<tr>
<td>May 22</td>
<td>Rio Grande Rift, Tularosa Basin, White Sands, NM</td>
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<td>May 23</td>
<td>Petrified Forest, Painted Desert, AZ</td>
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<td>May 24-25</td>
<td>San Francisco Peaks, Sunset Crater, AZ</td>
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<tr>
<td>May 26</td>
<td>Northern Kaibab Geology</td>
<td>Kanab, UT</td>
<td></td>
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<tr>
<td>May 27-29</td>
<td>Kaibab Stratigraphy</td>
<td>Jacob Lake, AZ</td>
<td>75</td>
</tr>
<tr>
<td>May 30</td>
<td>Kaibab Geology</td>
<td>Jacob Lake, AZ</td>
<td>25</td>
</tr>
<tr>
<td>May 31-June 5</td>
<td>Northern Arizona Geology</td>
<td>Littlefield, AZ</td>
<td>100</td>
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<tr>
<td>June 6</td>
<td>Zion National Park, UT</td>
<td></td>
<td></td>
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<tr>
<td>June 7-12</td>
<td>Parowan Gap Geology</td>
<td>Parowan Gap, UT</td>
<td>100</td>
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<tr>
<td>June 13</td>
<td>Free Day</td>
<td>Deer Canyon, UT</td>
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<tr>
<td>June 14-16</td>
<td>Quaternary Volcanics</td>
<td>Navajo Lake, UT</td>
<td>50</td>
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<tr>
<td>June 17-18</td>
<td>Sevier Faulting</td>
<td>Red Canyon, UT</td>
<td>50</td>
</tr>
<tr>
<td>June 19-20</td>
<td>San Rafael Swell, Arches National Park, UT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>June 21-22</td>
<td>Return to SFA Campus</td>
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</table>

*Projects may be changed or modified as necessary.
**Attendance Policy:**

Students are expected to be in the field every day. Project grade will be lowered one letter grade for every day missed.

**Grading Policy:**

Students are expected to acquire data and map geologic features in the field. This field data will be used to interpret the geology of an area. Projects will be graded on the following criteria:

1. Map projects:
   a. Thorough distribution of data points over the map area and field map
   b. Quality of notes
   c. Geologic interpretation as shown on map and cross-sections
   d. Quality of drafting, symbol placement, coloring
   e. Performance in the field (plotting points and coloring maps as you work)
   f. Geologic history of the study area
   g. Mining / Environmental report (if required)
   h. Stereonet plots (if required)
2. Points will be deducted for missing field days, being late to the vehicles, misuse of time in the field, group mapping, etc.
3. Mapping must be done in groups of two for safety reasons. No more than four people may be at any one location.
4. Copying or plagiarism will receive a 0%.
5. No time extensions will be given on any projects.

Please refer to the Mapping Hints provided in the course reference material for additional information.

**Grades will be calculated in the following way:**

<table>
<thead>
<tr>
<th>Project</th>
<th>Possible Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Texas Mapping Projects</td>
<td>170</td>
</tr>
<tr>
<td>Arizona Stratigraphy Project</td>
<td>100</td>
</tr>
<tr>
<td>Arizona Mapping Project</td>
<td>100</td>
</tr>
<tr>
<td>Southwest Utah Mapping Project</td>
<td>100</td>
</tr>
<tr>
<td>South-central Utah Mapping Projects</td>
<td>100</td>
</tr>
<tr>
<td>Field Trip Notebook</td>
<td>50</td>
</tr>
<tr>
<td><strong>Total Possible Points</strong></td>
<td><strong>620</strong></td>
</tr>
</tbody>
</table>

Your points divided by the total points = %

100 – 90% = A; 89 – 80% = B; 79 – 70% = C; 69 – 60% = D; 59 – 00% = F
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.

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/.
Mental Health Resources

SFASU values students’ mental health and the role it plays in academic and overall student success. SFA provides a variety of resources to support student’s mental health and wellness. Many of these resources are free, and all of them are confidential.

On-campus Resources:
SFASU Counseling Services
www.sfasu.edu/counselingservices
3rd Floor Rusk Building
936-468-2401

SFASU Human Services Counseling Clinic
www.sfasu.edu/humanservices/139.asp
Human Services Room 202
936-468-1041

Crisis Resources:
Burke 24-hour crisis line 1(800) 392-8343
Suicide Prevention Lifeline 1(800) 273-TALK (8255)
Crisis Text Line: Text HELLO to 741-741