Professors: Joe Satterfield and Stephen Shields
Offices: VIN 122, 135
Office phones: 325-486-6766 (Satterfield), 325-486-6934 (Shields)
Physics and Geosciences Department Office: 325-942-2242
E-mails: joseph.satterfield@angelo.edu, stephen.shields@angelo.edu

Satterfield: On-campus Face-to-face Office hours (meet in my office, VIN 122, we will step outside)
- Monday, Wednesday: 8:00 – 9:00 am, 2:00 – 3:00 pm
- Tuesday: 9:00 – 11:00 am
- Thursday: 10:00 – 11:00, 2:00 – 4:00 pm

Virtual Office Hours via Blackboard Collaborate (use guest link in Office Hours on Blackboard)
- Monday, Wednesday: 1:00 – 2:00 pm (or contact me for a good time to virtually meet)

Recommended and Required Textbooks
- Recommended: Compton, R.R., 1985, *Geology in the Field*: paperback published by Earthspun Press (this is also the text used by ASU Field Camp and many others)
- Required: Standard Geology Field Book. Purchase a Sokkia Field Book from Dr. Joe for $8.00

Grading
- Lab Project 1: San Angelo State Park Mapping Project, 35% total
  a) River Bend field map and field notes, 5%
  b) Highland Range Overlook field map and field notes, 5%
  c) San Angelo State Park cross-section, 5%
  d) River Bend, Highland Range Overlook final geologic maps, 10%
  e) San Angelo State Park final report, 10%

- Lab Project 2: Sierra del Carmen Mapping Project: 65% total
  a) Field Gear Shakedown, 5% (Must pass with 100% to go on Big Bend mapping trip!)
  b) Cross-section A-A’, 5%
  c) Inked-in field map and field notes, 5%
  d) Stereographic projections, 5%
  e) Stratigraphic column, 5%
  f) Drafted geologic map, including key, 20%
  g) Final Report, 20%
Weekend Geologic Mapping Trips!
- March 5-7: Required mapping trip to Sierra del Carmen, Big Bend National Park
- April 9-11: Second mapping trip to Sierra del Carmen, Big Bend National Park

Important: If you cannot participate on the March trip, you must withdraw from the course. No exceptions!

Field Gear and Camping Gear Sources
1. Happy Trails, San Angelo, Happy Trails website
2. ASU, Outdoor Adventures Equipment Rental Information
3. ASC Scientific, Geology Equipment Website

Student learning outcomes
1. To learn and practice skills needed for summer field camp, GEOL 3600, a 5- or 6-week field geology course. Look at Sul Ross State University Field Camp, Sul Ross Field Camp information or Indiana University Field Camp, Indiana University Field Camp information
2. To learn how to solve problems in the field; not just collect data in the field and think about it later. This means you will practice how to solve problems when it is hot or cold, when your legs are sore and punctured by lechuguilla, when you are distracted by pretty scenery, when the rocks look confusing, and when you have deadlines looming.
3. To learn how to write a scientific report containing data you collected. Your Indio Ranch report will be a tiny version of a Master’s thesis.
4. To learn about the geology of West Texas and to address unsolved problems that are subjects of current research. Problems include: timing of Laramide and Basin and Range mountain building, significance of strike-slip faulting, and whether unconformities are present at some formation contacts.
5. Learning outcomes will be evaluated by graded lab projects, especially the Indio Ranch mapping project.
6. Also read University of Texas Field Methods course objectives and Field Camps Train the Next Generation of Petroleum Geologists (reading assignment before classes!)

Course Webpages
The Angelo State Blackboard site contains PowerPoint slides, web links to scenic areas mentioned in class, practice problems, answers to lab assignments, and your official grades.

Lab Expectations
1) You are expected to attend every lab meeting. Field projects are especially difficult to make-up.

2) Take the next big step: let’s talk outside the lab about almost anything. My office, VIN 122, is a good place to find me or to see where I am. Topics I like to discuss: geology, hiking and backpacking trails, productive ways of learning geology, racquetball, Lord of the Rings, future careers, lame jokes, and more.

3) You will not distract yourself or others in the lab with electronic devices. You will put your phone away and you will not text in lab. You will step outside the lab if you have an emergency phone call.

Late Assignment Policy
- Ten points deducted if assignment turned in after due date
- Late assignments not accepted after graded labs returned or key posted
### Schedule

<table>
<thead>
<tr>
<th>Date</th>
<th>Location</th>
<th>Topics and Items Due</th>
</tr>
</thead>
<tbody>
<tr>
<td>I: 1/29, 1:00 – 5:00</td>
<td>San Angelo State Park, South Entrance</td>
<td>Project 1: River Bend Area Mapping, Day 1</td>
</tr>
<tr>
<td>II: 2/5, 1:00 – 5:00</td>
<td>San Angelo State Park, South Entrance</td>
<td>Project 1: River Bend Area Mapping, Day 2 END OF DAY: TURN IN INKED-IN FIELD MAP AND FIELD BOOK</td>
</tr>
<tr>
<td>III: 2/12 1:00, 1:00 – 3:00</td>
<td>Blackboard Collaborate Meeting (Cold Weather Day)</td>
<td>Project 2: Virtual Field Gear Shakedown</td>
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<tr>
<td>IV: 2/19</td>
<td></td>
<td>TRIP POSTPONED: SNOW DAYS</td>
</tr>
<tr>
<td>V: 2/26, 1:00 – 5:00</td>
<td>San Angelo State Park, South Entrance</td>
<td>Project 1: Highland Range Overlook, State Park Mapping Day 3 Project 2: Complete Field Gear Shakedown En</td>
</tr>
<tr>
<td>VI: 3/5 – 3/7</td>
<td>Sierra del Carmen, Big Bend National Park</td>
<td>Project 2: Sierra del Carmen (SDC) Mapping Days 1, 2, and 3 3/6, 10:00 PM: TURN IN CROSS-SECTION A-A’ FRIDAY, 3/12: AND FIELD BOOK</td>
</tr>
<tr>
<td>VI: 3/12, 1:00 - 4:00</td>
<td>ASU VIN 146</td>
<td>Project 2: Plotting SDC Data on Stereographic Projections Project 2: Discuss drafting final geologic map and stratigraphic column END OF DAY: TURN IN STEREONETS TURN IN INKED-IN FIELD MAP</td>
</tr>
<tr>
<td>VIII: 3/19, 2:00 – 3:00</td>
<td>ASU VIN 146</td>
<td>SDC Final Report Details discussed END OF DAY: TURN IN DRAFTED SDC GEOLOGIC MAP, KEY, STRAT COLUMN</td>
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<tr>
<td>IX: 3/26</td>
<td></td>
<td>No formal meeting END OF DAY: TURN IN SDC FINAL REPORT</td>
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<tr>
<td>X: 4/1, After 1:00</td>
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<td>Edited Final Reports returned for revising</td>
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<tr>
<td>XI: 4/8</td>
<td></td>
<td>TURN IN REVISED SDC FINAL REPORT</td>
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<tr>
<td>XI: 4/9 – 4/11</td>
<td>Sierra del Carmen, Big Bend National Park</td>
<td>Project 2: Sierra del Carmen Mapping, Days 4, 5, and 6</td>
</tr>
<tr>
<td>XII: 4/15, 2:00 – 4:00</td>
<td>ASU VIN 146</td>
<td>Revised SDC Final Map Due Details on Project 1 Final Report announced Dr. Phil Frederick, USGS Editor participates in writing, editing discussion</td>
</tr>
<tr>
<td>XIII: 4/23</td>
<td></td>
<td>Project 1 Final Report Due</td>
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</tbody>
</table>

### Academic Integrity, including Plagiarism

Students are expected to maintain complete honesty and integrity in all work. Any student found guilty of any form of dishonesty in academic work is subject of disciplinary action and possible expulsion from ASU. The College of Science and Engineering adheres to ASU’s [Statement of Academic Integrity](#). Course Policy: First offense: Zero on assignment, Second offense: F in course grade.
Plagiarism
Plagiarism is a serious topic covered in ASU’s Academic Integrity policy in the Student Handbook. Plagiarism is the action or practice of taking someone else’s work, idea, etc., and passing it off as one’s own. Plagiarism is literary theft.

In your discussions and/or your papers, it is unacceptable to copy word-for-word without quotation marks and the source of the quotation. It is expected that you will summarize or paraphrase ideas giving appropriate credit to the source both in the body of your paper and the reference list. Papers are subject to be evaluated for originality via Turnitin. Resources to help you understand this policy better are available at the ASU Writing Center.

Copyright Policy
Students officially enrolled in this course should make only one printed copy of the given articles and/or chapters. You are expressly prohibited from distributing or reproducing any portion of course readings in printed or electronic form without written permission from the copyright holders or publishers.

Accommodations for Students with Disabilities
ASU is committed to the principle that no qualified individual with a disability shall, on the basis of disability, be excluded from participation in or be denied the benefits of the services, programs or activities of the university, or be subjected to discrimination by the university, as provided by the Americans with Disabilities Act of 1990 (ADA), the Americans with Disabilities Act Amendments of 2008 (ADAAA), and subsequent legislation.

Student Disability Services is located in the Office of Student Affairs, and is the designated campus department charged with the responsibility of reviewing and authorizing requests for reasonable accommodations based on a disability. It is the student’s responsibility to initiate such a request by contacting an employee of the Office of Student Affairs, in the Houston Harte University Center, Room 112, or contacting the department via email at ADA@angelo.edu. For more information about the application process and requirements, visit the Student Disability Services website. The employee charged with the responsibility of reviewing and authorizing accommodation requests is:

Dallas Swafford, Director of Student Disability Services, Office of Student Affairs
325-942-2047
dallas.swafford@angelo.edu
Houston Harte University Center, Room 112

Title IX
The University prohibits discrimination based on sex, which includes pregnancy, sexual orientation, gender identity, and other types of Sexual Misconduct. Sexual Misconduct is a broad term encompassing all forms of gender-based harassment or discrimination including: sexual assault, sex-based discrimination, sexual exploitation, sexual harassment, public indecency, interpersonal violence (domestic violence and/or dating violence), and stalking. As a faculty member, I am a Responsible Employee meaning that I am obligated by law and ASU policy to report any allegations I am notified of to the Office of Title IX Compliance.

Students are encouraged to report any incidents of sexual misconduct directly to ASU’s Office of Title IX Compliance and the Director of Title IX Compliance/Title IX Coordinator at:
Michelle Boone, J.D.
You may also file a report online 24/7 at Title IX Incident Form 12.

If you are wishing to speak to someone about an incident in confidence, you may contact the University Health Clinic and Counseling Center at 325-942-2173 or the ASU Crisis Helpline at 325-486-6345.

For more information about Title IX in general you may visit ASU Title IX webpages 13.

Student Absence for Observance of Religious Holy Days
A student who intends to observe a religious holy day should make that intention known in writing to the instructor prior to the absence. See ASU Operating Policy 10.19 Student Absence for Observance of Religious Holy Day 14 for more information.

Incomplete Grade Policy
It is policy that incomplete grades be reserved for student illness or personal misfortune. Please contact faculty if you have serious illness or a personal misfortune that would keep you from completing course work. Documentation may be required. See ASU Operating Policy 10.11 Grading Procedures 15 for more information.

General Policies Related to This Course
All students are required to follow the policies and procedures presented in these documents:

- Angelo State University Student Handbook 16
- Angelo State University Catalog 17

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1 http://www.happytrailsshop.com/
2 http://www.angelo.edu/dept/university_recreation/Outdoor_Adventures/equipment_rental.php
3 http://www.ascscientific.com/
4 http://www.sulross.edu/geology-field-camp
5 http://https://iugfs.indiana.edu/courses/index.html
6 http://www.geo.utexas.edu/courses/420k/Objectives_09.pdf
7 http://specialpapers.gsapubs.org/content/461/25.abstract
8 https://blackboard.angelo.edu
9 https://www.angelo.edu/student-handbook/community-policies/academic-integrity.php
10 https://www.angelo.edu/dept/writing_center/academic_honesty.php
11 https://www.angelo.edu/services/disability-services/
12 www.angelo.edu/incident-form
13 www.angelo.edu/title-ix
14 https://www.angelo.edu/content/files/14206-op-1019-student-absence-for-observance-of
15 https://www.angelo.edu/content/files/14197-op-1011-grading-procedures
16 https://www.angelo.edu/student-handbook/
17 https://www.angelo.edu/catalogs/