LEADERS:
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DEPARTMENT:  Geology

DATE:  Saturday, February 16, 2019 only.

READ THIS SYLLABUS! It contains important information about the logistics (schedule, supplies, meals, etc.) for our trip. This syllabus and other course materials are available on D2L.

TIMES:  Meet at 7:45 am and depart at 8:00 o’clock from Pecan Park where you can park your car at your own risk if necessary. You must display the SFA Parking sticker and park in the designated SFA space. The trip ends about 5 pm with return to Pecan Park.

TRIP ROUTE:  Between Main Street in the south, campus, and E Austin Street (Post Office) in the north; University Drive in the east, Banita Creek in the west and some locations per van in the Nacogdoches neighborhood and county.

LUNCH:  On your own, 1 hour break around noon. (You can go to the cafeteria, a local fast food place, bring your own, etc.)

OUTFIT/SUPPLIES:  Clothing is according to the weather conditions, footwear medium heavy, comfortable. Bring a backpack for water bottle(s), snacks etc., hardcover spiral notebook (required), writing utensils (bring a spare), and a ziplock bag or two for rock and fossil samples.

SAFETY:  Please be careful when moving around: no pushing on trail, watch for traffic and vehicles. Use a hammer with care, do not damage/injure yourself or your neighbor. As this is an SFA sponsored function, alcoholic beverages and other illegal substances are not permitted during the duration of the trip. This is a non-smoking event.

DISABILITIES:  Any student who may need an accommodation due to a disability, please make an appointment to see me during office hours. A Special Accommodation Request from Disability Services will be needed.

Course Tasks

(1)  Participate and ask as many questions as you develop.
(2) Collect some rocks and fossils as they become available.

(3) Keep a very good notebook by recording what you see and hear. Use plenty of sketches to illustrate. Ask for advice if you get stuck!

(4) **Turn in your Field Notebook and sample collection at the end of the trip.**

(5) Your graded notebook will be available for you to pick up from the departmental Main Office (Science 301) during the week of finals. **Notebooks will only be kept by the department for one full semester following the field trip.**

(6) Your grade will depend on neatness and completeness of your notes, participation, and demonstration of understanding of what we saw, discussed, depending on your level of familiarity with geology.

(7) Have fun, be excited, we should have a great day!
Course Description

Special Topics in Geology: One semester hour. Study of specific areas in geology.

Course Code GOL 471.006/008

Course Objective

This course is designed as an intensive introductory course in field geology. Students will spend one day in Nacogdoches County learning about the unique cultural and geologic history of the area. Instructors will lead small groups and lecture at various locations, pointing out the geologic features of the area. While in the field, students will keep a notebook to record their observations. Students will submit their notebook at the end of the trip.

Student Learning Outcomes:

Upon completion of this course, the students will be able to recognize, identify and illustrate understanding of the following topics:
1. the relationship between transgressive/regressive cycles and the geologic formations of Nacogdoches County
2. the geomorphology of stream erosion and flood plain development
3. weathering and erosion and their relationship to the formation of soil
4. the fossilized remains of various life forms and the environments in which they lived
5. the construction of landfills and appropriate monitoring devices

Topics covered:

1. Mineral Formation
2. Igneous Rocks
3. Weathering, Erosion, and Soil Development
4. Sedimentary Rocks and Depositional Environments
5. Metamorphic Rocks
6. Mass Movement
7. Stream Processes
8. Geologic Time
9. Paleontology and the Preservations of Life Forms
10. Transgressive/Regressive Sequences
11. Environmental Applications of Geology