

Syllabus and Grading GLY4790 (6 credit hours) Field Camp

Instructors: Dr. Joseph Meert and Dr. Jim Vogl

Teaching Assistants: Kawner Sistrunk and Brian Kelley

Travel to and from Taos, New Mexico: The vans will leave Gainesville on May 11th (Saturday ~7:00 am). Anyone who misses the van will need to make their own arrangements to Taos.

Syllabus/Schedule of Field Camp

TBD

| Date | Event/Project |
|---------------------------|--|
| (Sa) May 11 th | Departure Geology Parking Lot |
| (Su) May 12 th | Lafayette, LA-Big Spring, TX |
| (Mo) May 13 th | Big Spring to Whites City, NM |
| (Tu) May 14 th | Carlsbad Caverns (am) Albuquerque (pm) |
| (We) May 15 th | Albuquerque to Taos via Cuba (SMU) |
| (Th) May 16 th | Tres Piedras (bag lunch): Due 9:00 pm May 19 |
| (Fr) May 17 th | Tour of Field Camp Area |
| (Sa) May 18 th | Servilleta Basalts Section Day 1 (bag lunch) |
| (Su) May 19 th | Servilleta Projects Day 2 |
| (Mo) May 20 th | Servilleta Projects Due 10 pm |
| (Tu) May 21 st | Jemez Mountains Tour |
| (We) May 22 nd | Ghost Ranch-Day 1- Set Up |
| (Th) May 23 rd | Ghost Ranch-Day 2- Camp |
| (Fr) May 24 th | Ghost Ranch Return SMU work day |
| (Sa) May 25 th | Ghost Ranch Projects Due Lunch-evening off |
| (Su) May 26 th | Tour Day – or Project Day 1 |
| (Mo) May 27 th | RedWash or Box Canyon Day 1 |
| (Tu) May 28 th | Redwash or Box Canyon Day 2 |
| (We) May 29 th | Redwash or Box Canyon Day 3 |
| (Th) May 30 th | Projects Due 8 am: Day off |
| (Fr) May 31 st | Piedra Lumbre Day 1 |
| (Sa) June 1 st | Piedra Lumbre Day 2 |
| (Su) June 2 nd | Piedra Lumbre Day 3 |
| (Mo) June 3 rd | Piedra Lumbre Day 4 |
| (Tu) June 4 th | Piedra Lumbre Day 5 |
| (We) June 5 th | Piedra Lumbre Day 6 |
| (Th) June 6 th | Field Exam in 2 Groups |
| (Fr) June 7 th | TBD |
| (Sa) June 8 th | Leave for Extension - SW U.S. |

See last page of this guidebook for extension schedule

(Note: Meert teaches from May 11-May 30. Vogl remainder)

****Grading****

Tres Piedras Mini Section **7.5%**

Rio Pueblo de Taos Section (Servilleta Basalts/Sedimentary) **15%**

Ghost Ranch Project **15%**

Redwash Canyon or Box Canyon Project Mapping **15%**

Piedra Lumbre Project Mapping **20%**

Field Final Exam **10%**

Extension Exam **15%**

Quizzes/Field Book Reviews **2.5%** (random quizzes and field checks)

Don't forget that all projects in Taos are to be completed on computer and printed out. Please look at detailed Grading Rubrics for each project in the book.

Brief Description of Field Camp Projects

Driving Out

1. Tour on the way out includes stops at the Atchafalaya Basin-discussion of Mississippi River dynamics and birdfoot delta systems.
2. Stop at the Llano Uplift (Austin Tx). Field stop to look at granites.
3. Stop at Permian Reef- Discussion of Petroleum and hike through the lower reef sequence.
4. Carlsbad Caverns: Examine teepee structures and cavern formation.
5. Valley of Fires: Visit 50,000-year-old basalt flows in south-central New Mexico

Projects (All projects are prepared using computer graphic software):

1. Tres Piedras- Section measurement and description 'warm up'
2. Servilleta: These are section measurement exercises using Jacob's staff including rock descriptions and geological history interpretation of the sections.
3. Ghost Ranch- Mapping of flat-lying and faulted Mesozoic sedimentary rocks.
3. Box Canyon/Red Wash Canyon: Mapping of folded, faulted Mesozoic of Paleozoic Sedimentary rocks.
4. Piedra Lumbre: Mapping of Precambrian metamorphic rocks, folded and faulted.
5. Harding Mine: Final exam mapping of a small region of Precambrian igneous and metamorphic rocks.

Extension

Tour of the northwest and discussion of geological history of the region. Each student will write a short paper on a particular unit/region and lead a discussion in the field.