Teaching

Peter S. Mozley, Associate Professor of Geology

Classes that I teach include:

**ERTH 101 - Earth Processes**
A study of the physical processes that operate on and within the Earth and determine its evolution through geologic time. Students are encouraged to enroll concurrently in GEOL 101L or GEOL 103L.

**ERTH 317 - Survey of Sedimentary Rocks and Processes**

Study of sedimentary processes, materials, and depositional environments. Field trips (see picture on right). (This class is for non-majors only. Earth science majors must enroll in GEOL 318.)
ERTH 318 - Sedimentary Rocks and Processes
Study of sedimentary processes, materials, depositional environments, and the petrography of sedimentary rocks. Field trips (see picture on right).

ERTH 491 - Field Geology and Ecology of New Mexico. Geologic and ecologic history of New Mexico. Techniques for observing, describing and interpreting rocks and plant communities in the field.

Geology 424/524 - Sedimentary Petrography
Petrographic analysis and interpretation of sedimentary rocks, with emphasis on siliciclastics. Topics include: grain identification and provenance, identification of diagenetic minerals and textures, and interpretation of porosity and permeability characteristics.

Geology 432/532 - Interdisciplinary Field Research
Introduction to field-based research. Activities include proposal writing, data collection, interpretation, and preparation of a written report. Field work is an important part of the course, and hiking is required. The course is team-taught by several instructors.

Geology 491/571 - Climate, Tectonics, and Provenance

Geology 540 - Clastic and Carbonate Diagenesis
Discussion of clastic and carbonate diagenesis. Topics include: mineralogy and chemistry of authigenic minerals, rock-water interaction, mass transfer, influence of bacteria on diagenetic reactions, application of isotopes, diagenetic controls on porosity and permeability, and influence of depositional environment and detrital mineralogy on diagenesis.

Geology 543 - Field Sedimentology
Description and interpretation of sedimentary rocks in the field. Following several introductory lectures and field trips, students begin work on a cooperative, field-based research project. Shares lab with GEOL 443 but is graded separately and additional graduate-level work is required.