INTRODUCTORY FIELD GEOLOGY

University of New Mexico Department of Earth and Planetary Sciences
E&PS 319L -- 4 credit hours, for Advanced Undergraduates
May 18 through June 5, 2020

Prerequisites: mineralogy, petrology, sedimentology-stratigraphy, structural geology. All students (including UNM students) must apply by Friday March 27 - see application form.

This course focuses on field investigation of stratigraphy and structure in Mesozoic sedimentary rocks, Precambrian metamorphic rocks and Quaternary volcanics and surficial deposits. Using localities with spectacular exposure and interesting structures and landforms in central New Mexico, projects begin at a basic level, and expand in scope and geologic complexity as the course progresses. Students learn to interpret field relations, prepare detailed maps and stratigraphic sections and write concise summary reports of findings. Approximately half the course is based out of Albuquerque, with lodging arranged for out of town students either with local students or in UNM dorms. The remaining portion of the course involves camping, where students provide their own personal gear (tent, sleeping bag, etc.). Equipment for small-group or individual cooking is available, and space for map and office work with electricity for personal computers will also be provided.

Schedule (beginning and end dates are set, but project dates are tentative):
Sunday May 17: Students flying into Albuquerque must arrive by Sunday PM.
Monday May 18: Introductory meeting for 319L, Northrop Hall, UNM, begins 9 AM.
First Project - 6 days (May 19 - 24): Mesozoic strata, Laramide-related deformation, and Quaternary deposits and associated landforms, San Ysidro, New Mexico. Based out of Albuquerque.
Second Project - 6 days (May 25 - 30): Precambrian metamorphic rocks and structures, Paleozoic stratigraphy, complex Laramide deformation and Quaternary fluvial geomorphology, Abo Pass, New Mexico.
Third Project – 5 days (May 31 – June 4): Neogene volcanics in the Valles Caldera and Jemez Mountains, New Mexico. Camping out.
Final reports due and wrap-up – (June 5): Based in Albuquerque.

For additional information email or call:
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