

GEL 25 - Geology of National Parks - Fall 2019

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Office: Earth & Physical Sciences Bldg., room 3224

Office Hours: Monday 2:15-3:15 & Wednesday 1:15-2:15

Please read the GEL25 Canvas site closely for more detail on the course.

<u>Date</u>	<u>Lecture Topic</u>
Sept 25 – Oct. 16	National Parks of the Colorado Plateau: Grand Canyon, Zion, Bryce, Canyonlands, Arches and others. Concepts addressed include deep time, erosion and sedimentation, river processes, landscape evolution
Oct. 18 – Midterm 1 (50 min.) <i>(bring Scantron 2000)</i>	
Oct 21 – 28	National Parks of the Cascades: Crater Lake, Mt. Rainier, Mt. Lassen and others. Concepts addressed include convergent tectonics, explosive volcanism, volcanic deposits.
Oct 30 – Nov 8	National Parks of the Sierra Nevada: Yosemite, Sequoia, Kings Canyon. Concepts addressed include convergent tectonism, mountain building, and glaciation. <i>(no class on Monday, Nov. 12, Veteran's Day)</i>
Nov. 13 – Midterm 2 (50 min.) <i>(bring Scantron 2000)</i>	
Nov. 15 - 20	National Parks of the Rocky Mountains: Rocky Mountain, Glacier. Concepts addressed include compressional tectonics, ancient landscapes
Nov 22 – 27	National Parks of the Basin & Range: Death Valley, Grand Teton. Concepts addressed include extensional tectonics, desert processes
Dec 2 – 4	National Parks related to volcanic hot spots: Hawaii Volcanoes, Yellowstone. Concepts addressed include explosive vs. effusive volcanism, mega-volcanoes, volcanic hazards
Dec 6	National Parks along the San Andreas Fault: Pinnacles, Pt. Reyes. Concepts addressed include shear tectonics, earthquakes, shoreline processes.
Dec. 10 – Tuesday, 10:30-12:30 – Final exam <i>(comprehensive, bring Scantron 2000)</i>	