

GEL 25 - Geology of National Parks - Fall 2021

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Student office hours: Tuesdays 2:10-3:00 (held using Zoom on Canvas)
Wednesdays 1:30-2:30 (in-person, 3224 EPS building)

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

<u>Date</u>	<u>Lecture Topic</u>
Sept 22 – Oct. 8	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
Sept 29 – Quiz 1 Oct 6 – Quiz 2	
Oct 11 – 18	National Parks of the Cascades: Crater Lake, Mt. Rainier, Mt. Lassen and others. Concepts addressed include convergent tectonics, explosive volcanism, volcanic deposits.
Oct 13 – Quiz 3 Oct 20 – Quiz 4	
Oct 20 – Oct 29	National Parks of the Sierra Nevada: Yosemite, Sequoia, Kings Canyon. Concepts addressed include convergent tectonism, mountain building, and glaciation.
Nov 1 – Midterm (50 min, in our classroom)	
Nov 3 – 8	National Parks of the Rocky Mountains: Rocky Mountain, Glacier. Concepts addressed include compressional tectonics, ancient landscapes
Nov 10 – Quiz 5	
Nov 10 – 15	National Parks of the Basin & Range: Death Valley, Grand Teton. Concepts addressed include extensional tectonics, desert processes

Nov 17 – 24

National Parks related to volcanic hot spots: Yellowstone, Hawaii Volcanoes. Concepts addressed include explosive vs. effusive volcanism, mega-volcanoes, volcanic hazards

Nov 17 – Quiz 6

Nov 26 – no class, Thanksgiving break

Nov 29 – Dec 3

National Parks along the San Andreas Fault: Pinnacles, Pt. Reyes. Concepts addressed include shear tectonics, earthquakes, shoreline processes.

Dec. 7 – Tuesday, 8:00-10:00 AM – Final exam (2 hrs, in our classroom, comprehensive)
