

GEL 25 - Geology of National Parks - Fall 2020

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I'll be fully available online via Zoom and email for this fall quarter, 2020

Student office hours with Dave: **Monday 1:00-2:00 & Thursday 10:00-10:50**

Office hours for students will be held using Zoom on Canvas

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

<u>Date</u>	<u>Lecture Topic</u>
Sept 30 – Oct. 19	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 9 – Quiz 1	
Oct 16 – Quiz 2	
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 23 – Quiz 3	
Oct 30 – Quiz 4	
Oct 30 – Nov 9	National Parks of the Sierra Nevada: Yosemite, Sequoia, Kings Canyon. Concepts addressed include convergent tectonism, mountain building, and glaciation.
Nov 6 – Midterm (50 min, online)	
Nov 11 – no class, Veteran's Day	
Nov 13 – 18	National Parks of the Rocky Mountains: Rocky Mountain, Glacier. Concepts addressed include compressional tectonics, ancient landscapes
Nov 20 – Quiz 5	
Nov 20 – 25	National Parks of the Basin & Range: Death Valley, Grand Teton. Concepts addressed include extensional tectonics, desert processes
Nov 27 – no class, Thanksgiving break	

Nov 30 – Dec 4 **National Parks related to volcanic hot spots:** Yellowstone, Hawaii Volcanoes. Concepts addressed include explosive vs. effusive volcanism, mega-volcanoes, volcanic hazards

Dec 4 – Quiz 6

Dec 7 – 11 **National Parks along the San Andreas Fault:** Pinnacles, Pt. Reyes. Concepts addressed include shear tectonics, earthquakes, shoreline processes.

Dec. 16 – Wednesday, 1:00-3:00 – Final exam (*comprehensive, online*)