Fall 2025 Course Announcement

CVEN-5334 Groundwater Hydrology

https://www.nationalgeographic.org/encyclopedia/groundwater/ 3/21/2022

Water supply. Superfund cleanup. Geothermal energy. Hydraulic fracturing. And more. What do these have in common? Groundwater: Crucial in Colorado, crucial worldwide:

- **Water**: 99% of the world's liquid fresh water is groundwater.
- **Environment**: 85% of Superfund sites have contaminated groundwater.

This course places groundwater in the context of the hydrologic cycle, then covers water flow in aquifers, well hydraulics, and subsurface contaminant transport.

Who should take this class?

Graduate students in Hydrologic, Environmental, and Sustainability Engineering (http://engineering.ucdenver.edu/HESE) or Environmental Sciences. Undergraduate civil engineers may take this technical elective after earning an A/B in CVEN-3313 Fluid Mechanics.

Instructor: David C. Mays, P.E. Ph.D. (david.mays@ucdenver.edu)

Schedule: Monday/Wednesday 5:00-6:15 pm starting Monday 8/18/2025

Textbook: Fitts (2024), *Groundwater Science*, 3rd edition, ISBN 978-0-12-811455-1

Register: Current students → http://www.ucdenver.edu/UCDAccess
Prospective students → www.ucdenver.edu/admissions/Non-Degree