



SEATS STILL AVAILABLE

HYD 144 and EBS 144:

Groundwater Hydrology (4 units)

- **An Interdisciplinary Introduction** -

CRN for HYD 144: 37305 (Section 1) or 53548 (Section 2)

CRN for EBS 144: 28398 (Section 1) or 53540 (Section 2)

GE credit: QL, SL, VL, (**pending and may not be approved for fall 2020: WE**)

Recommended (but not required) prerequisites: Mathematics 12, or 16B or 21A or any equivalent;
Hydrologic Science 103 or Engineering 103.

Lecture MWF 11-12 (Sections 1 and 2), online

Discussion M 1-2 (Section 1), M 2-3 (Section 2), online

Instructor:

Thomas Harter, ThHarter@ucdavis.edu, <http://groundwater.ucdavis.edu>

This course takes an interdisciplinary, holistic approach to understanding groundwater resources and appeals to students from across environmental, engineering, policy, agricultural, and earth sciences. We explore groundwater through the lens of various systems: as an economic, geographic, geologic, physical, chemical, legal/regulatory, and management system. Topics covered include: global role of groundwater resources in society; groundwater in the hydrologic cycle; geology of groundwater; global, US, and California geography of groundwater; physical measures of groundwater occurrence and flow; water balance; modeling groundwater flow; principles of well construction; aquifer tests; groundwater quality; contaminant transport and monitoring; groundwater law; water quality regulations; sustainable groundwater management. The course provides useful skills for careers in consulting, academia, natural resources management, industry, agriculture, law, government, public administration, and with NGOs.