

Course Outline
HYD/SAS 10: WATER, POWER, SOCIETY

Spring Quarter, 2016

- Time:** Lecture: MW 1:10–2:00 PM; Discussion: F 1:10-2:00
Place: MWF Haring 1227
- Instructor:** Graham Fogg
237 Veihmeyer Hall
Phone: 2-6810
gefogg@ucdavis.edu
- TA:** Stacy Roberts

snroberts@ucdavis.edu
- Office hours:** Instructor: MW 2:00 – 3:30; TA: .
- Textbooks:** Cadillac Desert, by Marc Reisner
Introduction to Water in California, by David Carle [**Note: this book is available free via the course website.**]
- Prerequisites:** None
- Course Goal:** To understand current and future water problems in the context of historical development (emphasis on California), science, and socio-political considerations. Examine how the California water system became so vast and unique, and implications for future sustainability of both water quantity and quality given challenges such as climate change and continued development. Focus on current problems and the roles of science and policy in solving water problems.
- Course Grade:** Quizzes (20%); 3-4 during the quarter; online via Canvas
Participation in discussions online and in class (30%)
Paper (25%); one paper of 5-7 pages
Final exam (25%)
- Web Site:** Canvas

Agenda

Week	Topic
1	The <i>problem</i> (locally and globally); the hydrologic cycle; climate change introduction
2	The southern CA water story (Cadillac Desert): a case history of water and power; Groundwater basics
3	Evolution of the state and federal water projects
4	Agriculture and water; Drought
5	The end of the world; The Colorado River; Mono Lake
6	Climate change and water resources
7	Water storage and management (e.g., dams or groundwater banking?) Katrina, levees, and Sacramento vulnerability
8	Water quality (is our drinking water safe?)
9	Agricultural/urban conundrum
10	Miscellaneous topics: Middle East Water; Water privatization; Fracking