Course Syllabus

Monday, January 6 – Introduction – Discuss Properties of Water

Wednesday, January 8 – Origin of Water in the Universe

Friday, January 10 – Origin and Distribution of Water on Earth

Monday, January 13 – Chemistry & Physics of Water

Wednesday, January 15 – Water Cycle - Evaporation, Precipitation, Atmospheric circulation

Friday, January 17 – Tectonic and Orographic Effects

Monday, January 20 – MLK Holiday

Wednesday, January 22 – Rivers, Streams, & Groundwater

Friday, January 24 – Floods and Landscape evolution

Monday, January 27 – Lakes and Seasonality

Wednesday, January 29 – Glaciers and Ice Caps

Friday, January 31 - Sea Ice and Permafrost

Monday, February 3 – Oceans and Seas I (Depth and Volumes – Age of the Oceans)

Wednesday, February 5 - Oceans and Seas II (The Salty Sea, Circulation – e.g., Gulf Stream)

Friday, February 7 – Oceans and Seas III (Sea level changes and Tides)

Monday, February 10 - Climatic Impacts (e.g., Sierra snow pack, global Warming)

Wednesday, February 12 – Climatic Impacts (e.g., Sierra snow pack, global Warming)
Friday, February 14 – Mid-Term

Monday, February 17 – Presidents Holiday

Wednesday, February 19 – Weather versus Climate (precipitation changes in the last decade)

Friday, February 21 – California Water Landscape (Pristine versus Urban Landscapes)

Monday, February 24 – Californian Rivers and Watersheds I (North Coast – San Fran)

Wednesday, February 26 - Californian Rivers and Watersheds II (San Joaquin – South Lahontan)

Friday, February 28 - Californian Rivers and Watersheds III (South Coast and Colorado River Region)

Monday, March 3 – Water Distribution System (demand versus supply)

Wednesday, March 5 – Aqueducts and California delivery system (Los Angeles, Hetch Hetchy, and Mokelumne Aqueducts)

Friday, March 7 – Ground water supplies and Alternative Water Sources (e.g., desalination, new dams, reclaimed water) I

Monday, March 10 – Challenges to Water Management (application to California) & Meeting Future Water Demands

Wednesday, March 12 – Water Shortages in Western U.S. short-term and long-term solutions

Friday, March 14 – Global Water Hotspots and Political Implications

Finals – March 17 - 21