California Water Course

A collaborative course

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Agriculture and Natural Resources

UCDAVIS
COLLEGE OF AGRICULTURAL AND ENVIRONMENTAL SCIENCES

Agenda

1. Course Introduction and Expectation
2. Your Water System
3. Logistics for
   - Guidebook : Reading/Watching Content
   - Water System Self-Assessment: Assignments
4. What to Expect for First In-Person Meeting

Why a California Water Course?

- What would I have taught myself when I started my career in California
- I want it to be a two way conversation and a hands-on experience
- I want it to further the conversation about water beyond the basic concepts
- I want it to be tailor made to every person taking the course
- I want it to serve our water (advocacy) community

Extension event at Napa
March 1st, 2012

What is the California Water Course?

Objective: Provide relevant and applied education related to water science, policy and management in California

Audience: People working in the water sector (entry level) or people interested in water

Characteristics:

(a) Self-guided – Materials available at all time

(b) Authenticated – Real world examples

(c) Self-interest driven – Assignments based on the interest of the participants

(d) Flipped Classroom – Theory & HW by themselves, in-person training

Extension event at Sierra Foothills REC
March 1st, 2019

Where is the information of the course?

California Water Course

Science, Management and Policy

Announcement: Due to high demand, the course registration was closed on Jul/29

Registration (Closed) Description Calendar Content Materials Guidebook Water System Self Assessment

Course Description

Objective: Provide relevant and applied education of water science, policies and management to residents, businesses, community water advocates, and entry level professionals in California.

Audience: any person interested in water issues and solutions in California, including water advocates, community leaders and entry level professionals.

Minimum requirements: Course enrollees should have basic knowledge of arithmetic and algebra

Student learning objectives: At the end of the course, the student will be able to
- identify the natural and human-made components of their water system and recognize how they are connected
- distinguish the water policies that apply in their region of interest,
- evaluate the current water management in their region of interest, and
- critique and propose alternative water management alternatives for their region of interest

Length: 40 hours total. 2 hours of video content, 14 hours self-guided content, and 24 hours of in person events

Certificate of Completion: This is a Pass/Fail course. You have to attend the all the group meetings and submit your Water System Self-Assessment assignments. If completed successfully, you will receive a certificate of completion.

Important Dates
Deadline to Register: July 31, 2025 - **Registration closed on Jul/30 due to high demand!**
Kickoff meeting (remote): August 2nd, 8:30 to 10 am
Group meetings: Aug 23rd (In person at UC Davis), Sep 27th (remote) and Oct 25th (hybrid), 9 am to 4 pm

https://watermanagement.ucdavis.edu/californiawatercourse

What is the Content?

Theory:

Guidebook OR Videos

Module 1: Water Systems and hydrology

Module 2: Water Policy

Module 3: Water Budgets

~ 90 ninety seconds videos

Total: 2 hours

Practice: **Water Systems Self-Assessment**

Module 1: Water Systems and hydrology

Module 2: Water Policy

Module 3: Water Budget

12 hours

Total: 14 hours

Hands-on Experience:

In-person Meetings

#1: Water Cycle, monitoring and Policy

#2: Water advocacy and databases

#3: Self Assessment presentation

3 eight hours in person meetings

Total: 24 hours

Self-interest driven: Identify your Water System

- You have to identify your water system of interest in California
  - City of Davis
  - Pajaro Valley
  - Upper Russian River
  - Merced Groundwater Sub-basin
  - Los Angeles County
  - Middletown Rancheria
  - A Disadvantaged Community

Logistics for the Guidebook and Water System Self Assessment

- See class website for:
  - Instructions: how to access materials
  - Materials: Guidebook OR Videos
  - Assignments: Water System Self-Assessment (Diagnostic)
- Upload your assignments in the google Folder according to the module that you are submitting

The guidebook is also available online:

Website:
https://watermanagement.ucdavis.edu/californiawatercourse

Facebook search: californiawatercourse
Facebook: https://www.facebook.com/californiawatercourse/

Instagram Search: californiawatercourse
Instagram: https://www.instagram.com/californiawatercourse/

Tiktok Search: SamuelSandovalSolis
TikTok: https://www.tiktok.com/@user78681763834O7?_t=8pfQloImBWV&_r=1

Youtube Search: Samuel Sandoval Solis
YouTube Chanel: Playlist (English, Español)

Let’s take a look at an example

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4. In which basin is your water system located?	Pajaro River Basin	
5. In which sub-basin is your water system located? (if applicable)	Pajaro River	HUC 8 number(s): 18060002 HUC 10 number(s): 1806000208

4. Identify the main basin that your water system is located. Here we will use a specialized tool: Online ArcGIS. Go to the following link of Online ArcGIS. We will need to add the following layers, so it will make it clear which rivers are draining each basin: North America Lakes and Rivers. To add this layer, click on the "Add" icon below the layer "California WDB HUC8 Watersheds" and in the "Search" tool type "North America Lakes and Rivers" and then click on "+ Add". Now, click on the location of your Water System and a window will pop up with the name. This video shows how to do this procedure.
5. Identify the sub-basin that your water system is located. Here you will continue using Online ArcGIS. You will need to add the layer "Watershed Boundary Dataset HUC10s" as you did in the previous question. This video shows how to do this procedure.

What to Expect for the In-Person Meeting (Aug. 23)

See more information in class website

Time		Activity	Location
9:15	9:30	Arrival and Registration	PES
9:30	9:45	Introductions	PES - 2005
9:45	10:15	First Nations first - Tribal Water	PES - 2005
10:15	10:30	Traveling to Campbell Track	
10:30	11:00	Climate Monitoring and Evapotranspiration	Campbell track
11:00	11:30	Well monitoring	Campbell track
11:30	12:00	Field trip - Understanding river hydrology	Putah Creek
12:00	12:45	Lunch	
12:45	1:00	Traveling back to Veihmeyer Hall	
1:00	2:00	Hydrology 101 and Groundwater Hydrology	Veihmeyer Hall
2:00	3:00	History of Water in California	Veihmeyer Hall
3:00	4:00	California Water Policy	Veihmeyer Hall

Lunch provided: Email dsrothberg@ucdavis.edu with any dietary restrictions.

Instructions for the In-Person Meeting (Aug. 23)

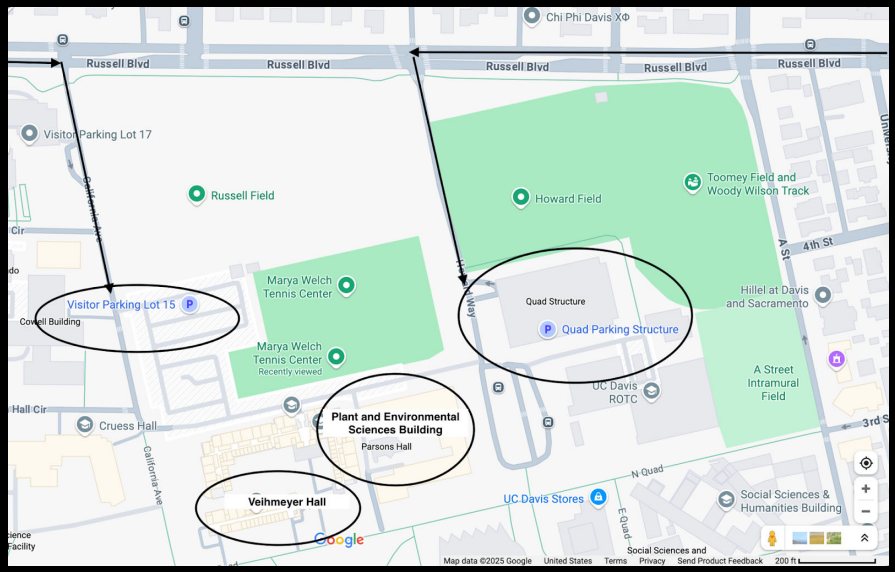
Where we are meeting:

Plant and Environmental Science Building

List of things to bring for the field:

•Backpack notebook and pen (you can bring your computers or tablets but it is NOT needed)
•Cell phone to take some pictures
•Long pants (leggings) and sleeves (not cotton on any of your clothes if possible)
•Long sleeve T-shirt/blouse to protect your arms from the sun (not cotton preferably), otherwise use plenty of sunscreen.
•Two pairs of shoes:
    •Hiking shoes or running shoes (no converse or open-toe)
    •Shoes to walk in the river: an old pair of shoes, Chacos/Teva, water shoes
•Water bottle
•Sunscreen, sun hat
•Mosquito repellent
•Extra dry clothes/shoes for the ride home (just in case)
•Additional snacks for the day

Parking Information



Parking is free on the weekend.

Thank you – Gracias!

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