**Water Recycling/Reclamation**

**SYLLABUS**

**Basic Information**

Have you been to Lake Cachuma and Lake Mead, and watched the receding water lines over the years? Have you heard of the one water concept? Do you want to learn about how wastewater is recycled, and how you can help conserve water at home?

This summer camp will start with a field trip and a case study at a water district facility so you can learn how water recycling is generally done. Then you will transition into learning how to conserve water at home and showcase your creativity!

**Instructors**: Iris Huang

**In-person inter-camp team building**: June 11, Saturday 10-12pm (Outdoor location TBD)

**Camp hours**: Saturday 2-3pm, June 18 to July 23 (via Zoom or In-person field trip)

**In-person field trip:**

Date/Time: June 11, Saturday, 1:00-2:30pm.

Location: Edward C. Little Water Recycling Facility

1935 S. Hughes Way, El Segundo, CA 90245

Dress Code: Closed-toe, flat heel shoes, pants, and comfortable clothes for a walking tour are required.

**Final Inter-Camp Presentation:** July 26, Tuesday, 7:00 – 8:00 PM

**Camp Objectives**

This camp will introduce concepts and basic technologies involved in water recycling and water reclamation. Students will attend field trips and virtual classroom education. Students will also be encouraged to conceptualize creative water conservation approaches at home.

Students from the camp will prepare a presentation (or other creative product) to attend the final inter-camp presentation on July 26, to compete for SCCAEPA&AEC 2022 Environmental Protection Summer Camp prizes/awards.

**Required Student Resources**

Presentation software

Transportation to field trip location.

**Camp Schedule/Outline/Calendar of Events**

This is a projected outline and schedule of online lectures, in-person field trip, and a final presentation.

|  |  |  |
| --- | --- | --- |
| **Week (dates)** | **Topic** | **Reading/Assignment** |
| 6/11/2022 | In-person field trip | Date/Time: June 11, Saturday, 1:00-2:30pm.  Location: Edward C. Little Water Recycling Facility  1935 S. Hughes Way, El Segundo, CA 90245  Dress Code: Closed-toe, flat heel shoes, pants, and comfortable clothes for a walking tour are required.  Reading Prior to the trip:  https://youtu.be/NGOP9r0gVvM |
| 6/18/2022 | Overview of Recycled Water | Readying:  [Water Recycling - Water Education Foundation](https://www.watereducation.org/aquapedia/water-recycling)  [Water Reuse and Recycling | US EPA](https://www.epa.gov/waterreuse)  <https://www.youtube.com/watch?v=bOTuTYL301Y>  <https://www.youtube.com/watch?v=vPCGRulQcnA>  <https://www.westbasin.org/water-supplies/recycled-water/facilities/>  OCWD or other facilities: [Book a tour | OCWD](https://www.ocwd.com/contact-us/book-a-tour/)  Ventura Wastewater Treatment Plant: https://youtu.be/UQ8H2aSFXv0  Ventura Water Treatment Plant: https://youtu.be/I0goXrrOTEk |
| 6/25/2022 | Recycled Water - liquid phase | ttps://www.westbasin.org/water-supplies/recycled-water/facilities/ |
| 7/9/2022 | Recycled Water - Solid Phase | ttps://www.westbasin.org/water-supplies/recycled-water/facilities/ |
| 7/16/2022 | Recycled Water – Membrane Technologies | ttps://www.westbasin.org/water-supplies/recycled-water/facilities/ |
| 7/23/2022 | Recycled Water Project & Proposal Brainstorming Workshop | -Idea: A water recycling device for household Kitchen  -format & components of the project proposal  -Teamwork & Collaboration  -leadership |
| 7/26/2022 | Group presentation | Each member can book a one-on-one mentoring session with the coach to discuss the presentation |

**Approved Academic Honesty Statement**

The following statement must appear on all syllabi: “The academic community is operated on the basis of honesty, integrity, and fair play. Academic Responsibility and Conduct applies to cases in which cheating, plagiarism, or other academic misconduct have occurred in an instructional context. Students found guilty of academic misconduct are subject to penalties, up to and possibly including suspension and/or expulsion. Student academic misconduct records are maintained by the ENVIRONMENT SUMMER CAMP.