SOCIOLOGY 173X WATER AND SANITATION JUSTICE: 
AN ONLINE UNIVERSITY OF CALIFORNIA COURSE

This online undergraduate course is suitable for majors in a wide range of disciplines - including Sociology, Geography, Environmental Studies, Politics, Economics, Anthropology - in the Social Sciences, in the Arts, Engineering, and the Humanities. It will explore the many manifestations of water and sanitation justice and injustice on multiple interlocking scales (i.e. local, national, transnational) while illustrating analytical ideas connecting to a range of social processes including urbanization and infrastructure development, deprivation and exclusion, privatization of land and water, and claims for human rights. As a five-week course, students are expected to work thirty hours a week. Students will learn from a range of cases in the global south and the global north, and use key technical and social concepts to address rights, equity, and justice with respect to water and sanitation. This unique course was developed by an interdisciplinary team of scholars with varying methodological and place-based expertise. Each week will include two modules, and each module was designed, and will be taught, by a different team member. Some modules have multiple short readings that give different dimensions of the module's theme (e.g. newspaper articles) while other modules have some academic papers. This diverse approach will acquaint you with theoretical and practical knowledge about water and sanitation justice.

Course Development Team:
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* Office hours will be held online in Zoom. Please make sure to check Canvas to access the Zoom link and to schedule appointments for your section’s office hours

COURSE OVERVIEW

Please note: This course was initially developed as an online course for a ten-week quarter. In order to make the workload more feasible for a five-week summer course, we have reduced the readings. We have not, however, edited the lectures accordingly. Because of this, there may be times when the faculty members refer to readings in their lectures that are not mandatory for our class. Please know that you are not responsible for these readings, but that they are included as optional if you would like to learn more on your own. Please remember that each student should aim to have a 30-hour
workload per week for a five-week course of five credits.

**Week 1** -- Module 1: Introduction and Module 2: Water Governance
**Week 2** – Module 3: Water Justice in the Global North and South and Module 4: Sanitation Justice and Injustice
**Week 3** – Module 5: Human Rights for Water and Sanitation and Module 6: Urban Water and Sanitation
**Week 4** – Module 7: Urban Water and Sanitation and Module 8: Climate Justice
**Week 5** – Module 9: Water, Sanitation and Poverty and Module 10: Moving Towards Justice

**ASSIGNMENTS AND EVALUATION**

**Course Components**
The course content for each week comprises lectures, videos, readings, a quiz, a portfolio essay, and a discussion forum post. All course materials are available in Canvas ([login.ucsc.edu](http://library.ucsc.edu/science/instruction/CitingSources.pdf)).

**Grading**
1. Weekly portfolio essays (1-2 pages) (revised for final portfolio in week 5) – 40% of grade
2. Weekly forum posts (200 to 250 words) – 30% of grade
3. Weekly quizzes – 30% of grade

**Technology Requirements**
For this class you will need:
- A reliable computer
- A reliable internet connection
- A webcam and a microphone (built-in or peripheral)
- A modern web browser (Firefox, Safari, or Chrome)
- Word or similar word processing software

**ACADEMIC HONESTY**
You need to avoid presenting other people’s work (e.g. on websites) as your own. The university takes a dim view of plagiarism. It leads to hassle, failing grades, reports, remedial work and even suspension. We will be cross-checking writing assignments to ensure plagiarism is not occurring. This document gives information on how to avoid plagiarism:

**ACCOMMODATIONS**
UC Santa Cruz is committed to creating an academic environment that supports its diverse student body. If you are a student with a disability who requires accommodations to achieve equal access in this course, please submit your Accommodation Authorization Letter from the Disability Resource Center (DRC) to me privately during my office hours or by appointment, preferably within the first two weeks of the quarter. At this time, I would also like us to discuss ways we can ensure your full participation in the course. I encourage all students who may benefit from learning more about DRC services to contact DRC by phone at 831-459-2089 or by email at [drc@ucsc.edu](mailto:drc@ucsc.edu).
COURSE SCHEDULE

Week 1

1. Water and Sanitation Justice
   Lecturer: Ben Crow
   Why do we want justice? Why should water and sanitation access be considered questions of justice? What ideas of justice are most useful in consideration of water and sanitation? This module introduces a discussion of ideas of justice, a declaration about water justice, and how ideas of justice may relate to water and struggles over water.

   ● Video: Al Jazeera Global Water Scarcity
   ● Activities: Portfolio Essay 1

Readings:

2. Governing Water
   Lecturer: Kirsten Rudestam
   This module introduces contemporary modes of water governance. We look at mainstream and grassroots approaches such as Integrated Water Resources Management (IWRM) and Environmental Justice (EJ). We utilize case studies to better understand these divergent management practices and ways of understanding and working with water. We also become familiar with some of the idioms that geographers, sociologists and others have used to describe the movement of water through human-modified landscapes including the hydrosocial cycle, the network, and the waterscape.

   ● Videos: Interview with Peter Mollinga, Water Matters, David Schlosberg at UCSC
   ● Activities: Forum Post 1, Quiz

Readings:

Week 2

3. Water Justice in the Global North and South
Lecturer: Carolina Balazs
Across the globe, communities struggle to access clean water and adequate sanitation. In many instances inequities arise in the ability of communities to obtain these basic resources. This module, we explore these topics by looking at water justice issues across the global south (e.g. southeast Asia, Latin America) and the global north (e.g. United States).

● Videos: Water and Justice: Peri-urban pathways in Delhi, Water contamination in the Central Valley: Switzer Foundation
● Activities: Portfolio Essay 2

Readings:

4. Sanitation Justice and Injustice
Lecturer: Isha Ray
This module provides an overview of sanitation justice and injustice. We will cover: why poor-quality sanitation is a public and environmental health problem; what the SDGs have to say about sanitation for all; low-cost sanitation technologies; gender equality and sanitation; sanitation workers and justice; and innovative ways ahead for encouraging households to accept and pay for sanitation, waste removal and treatment, and a range of ways to pay for sanitation services.

● Videos: Gender Equality and Sanitation By Isha Ray TEDx, What is sanitation? By Sharada Prasad and Rachel Sklar, Community Led Total Sanitation in Ethiopia, David Kuria and Iko Toilets, Meet Mr. Toilet
● Activities: Forum Post 3, Quiz
Readings:

- Bill and Melinda Gates Foundation. Strategy Overview of Reinvent-the-Toilet (check out the main page and a couple of winning examples).

**Week 3**

5. **Human Rights for Water and Sanitation**  
**Lecturer:** Abigail Brown  
Do human rights to water and sanitation equal water and sanitation justice? Despite being previously assumed as embedded in other basic rights, water and sanitation were not officially acknowledged in international human rights conventions until 2010. This module outlines the evolution of the human rights to water and sanitation and critically examines linkages between human rights discourse and water and sanitation justice.

- **Lectures:** 1: Introduction to Human Rights to Water and Sanitation, 2: Movements for Human Rights to Water and Sanitation, 3: Critiques and Alternatives  
- **Videos:** *Thirsty for Justice: The Struggle for the Human Right to Water, Rights versus Commons* by Karen Bakker  
- **Activities:** Portfolio Essay 3

Readings:

- Short [timeline on PBS Frontline World](https://www.pbs.org/wgbh/frontline/) on Cochabamba, Bolivia.  
- “Water Justice City Profile: Cochabamba” by University College London. PAGES 6-13.  

6. **Urban Water and Sanitation**  
**Lecturer:** Kirsten Rudestam  
We narrow our attention to one particular site in this module - the urban environment. In examining urban water and sanitation networks, we look at how the plumbing of cities contributes to contemporary deprivations of access for inhabitants. We look specifically at inequality with respect to gender. We also use contemporary case studies to examine how urban water systems vary worldwide.
● Videos: Cadillac Desert, Interview with Ben Crow, Interview with Betty Okero, Translocal learning for water justice, Water and Sanitation for the Urban Poor
● Activities: Forum Post 3, Quiz

Readings:
● Rural Community Assistance Partnership. "Still Living without the Basics." PAGES 3-17.

Week 4

7. Climate Justice
   Lecturer: Abigail Brown
Climate change is an overarching concern of the twenty-first century. Humans, animals, and landscapes are impacted by climate change in unequal and unjust ways. Such inequalities are apparent when looking at climate change, water, and sanitation. We will evaluate linkages between environmental and climate justice movements, and also examine distributional and procedural aspects of climate justice through two case studies.

● Lectures: 1: Climate Change, Water, and Sanitation, 2: Environmental Justice and Climate Justice
● Videos: Navroz Dubash and Distributional Justice in Climate Change, Tracy Perkins and Procedural Justice in Climate Change
● Activities: Portfolio Essay 4

Readings:

8. Irrigation and Water Justice
   Lecturer: Isha Ray
This module provides an overview of irrigation and equity. Irrigation is the single biggest reason for freshwater withdrawals around the world. We will cover: the need for irrigation around the world, projections of water demand for irrigation in the future, benefits and controversies around irrigation practices; the inherently political nature of water allocation; “Big Irrigation” and water justice; low cost irrigation options for smaller farmers; irrigation through multiple use systems; and irrigation through participation.
• **Lectures**: 1: Irrigation Benefits, Costs, Controversies, 2: “Big” Irrigation and water justice, 3: “Small” Irrigation technologies (and justice), 4: Participatory Irrigation Management

• **Videos**: *Is the Three Gorges a Ticking Time Bomb?*, *The Miracle Water Village*

• **Activities**: Forum Post 4

**Readings:**

- Postel, Sandra. (2012). *The power of a radically affordable irrigation pump*. *National Geographic Voices*

**Week 5**

9. **Water, Sanitation, and Poverty**

**Lecturer**: Ben Crow

As we have seen throughout this class, there are substantial connections between getting water and using sanitation and the making of poverty, wealth and inequality. The control of irrigation water, for example, may enable some to get rich. Or everyday access to sanitation and water may reproduce poverty, indignity, powerlessness and an allocation of homemaker’s time precluding more valued activities. This module looks at these connections between water, sanitation and poverty.

- **Lectures**: 1: Water, Sanitation, and Poverty, 2: Delhi Case Study, 3: Capability Analysis, Water, and Development
- **Videos**: Interview
- **Activities**: Portfolio Essay Peer Review

**Readings:**


10. **Moving Toward Justice**

**Panelists**: Dr. Ben Crow, Dr. Isha Ray, Dr. Carolina Balazs, Kirsten Rudestam, Abigail Brown

This final module we will review concepts covered throughout the course and the panel will tackle some of the most relevant questions that previous student cohort’s have sent in to the class creators.

- **Lectures**: Recorded Version of an Earlier Live Panel with Course Creators
- **Videos**: None
- **Activities**: Complete final based on peer reviews and complete a table to indicate what changes have been made to your final portfolio essay. All portfolio essays need to be uploaded to Canvas by 8:00 PM September 1st