

Introduction to Culture and Natural Resource Management

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Location: 2050 VLSB. Time: M, W, F. 11am-12pm.

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Course content: This course explores historical and contemporary experiences of African Americans, American Indians, European Americans, Asian Americans, and Latinos in relation to natural resources. We start with the contention that natural resource management is premised upon historically and culturally distinct relationships between humans and nature, and associated social and economic systems. These, in turn, are conditioned by struggles between individuals and groups over access to and control of land, water and other resources. We focus on political economy, property, ecology, identity, representation and narrative to investigate complex relationships between humans and nature, and how these have influenced urban and rural social life and landscapes. For instance, we examine how racial difference has shaped Indian rights to forest resources and management practices in northern California, Chinese American access to farmland in the California Delta, the environmental and social contexts of water management and drought in California, and divergent experiences of New Orleans residents before, during and after Hurricane Katrina.

Learning objectives:

This course is designed to facilitate students' understanding of the following:

- Relationships between natural resource management and identity in the U.S.
- Policy and ethical dimensions of natural resource management
- Critical understanding of identity and power relations in the U.S.

Additionally, this course is designed to cultivate students' interests and abilities in the following:

- Holistic, systems-based, and multi-disciplinary approaches to complex phenomena
- Critical thinking, reading and analysis
- Short essay writing and group project work
- Understanding one's own experiences, roles and actions in society
- Informed, critical and self-reflective civic engagement

Course requirements: The course entails reading, assignments, tests and in-class participation. Exams cover lectures, readings and points raised in discussion section, and quizzes are designed to assess reading material comprehension. The papers and final project allow you to engage in depth with course material and themes. In discussions, you have the opportunity to explore the readings and lectures and discuss your own ideas. Come to lecture having completed assignments and reading, and ready to engage. Bring your intelligence, your curiosity, your creativity, and the hard work that got you here, and you are likely to learn a lot, and get an A.

Quizzes: You must complete 6 of the 12 quizzes on reading assignments that are available in the Quiz tool on bCourses. You may take 8 quizzes and apply your 6 best scores. Quizzes cover only material from the current week's assigned readings, and are designed to assess whether you have completed the reading material. Each quiz is graded on a 10-point basis.

Grading: Your final grade is based on a 1000-point system.

Midterm	200 points
Final exam	200 points
Quizzes	70 points (6 reading quizzes + 1 book quiz)
Final paper assignments	210 points
Weekly reflections assignments	120 points
Family and natural resources paper	50 points
Class participation	150 points
Extra credit	up to 30+ points

Readings:

- **Course reader:** The reader is available in one volume, and can be purchased at University Press Bookstore at 2430 Bancroft St. Alternatively, you can buy used readers through the ESPM 50 Reader Exchange, to which you have access through bCourses.
- **Unit websites:** Required and recommended websites for each unit are listed on "Unit websites" documents in the Unit Resources folder for each Unit on bCourses. You are responsible for relevant content on exams.
- **Recommended readings:** Recommended readings are listed on the syllabus in association with some lectures. You are not required to do read this material, and are not responsible for it on quizzes or exams.
- **Book:** You are required to select one of the following books, all of which are available at the ASUC bookstore and often can be found used at local bookstores or on-line. Please do not purchase any of these books until the assignment has been explained in class.
 - Didion, Joan. *Where I Was From*. 2003.
 - Kamiya, Gary. *Cool Gray City of Love: 49 Views of San Francisco*. 2013.
 - Kingston, Maxine Hong. *China Men*. 1981.
 - Reed, Ishmael. *Blues City: A Walk in Oakland*. 2003.
 - Silko, Leslie Marmon. *Ceremony*. 1977.
 - Smith, Jordan Fischer. *Nature Noir*. 2006.
 - Trethewey, Natasha. *Beyond Katrina: A Meditation on the Mississippi Gulf Coast*. 2010.
 - Viramontes, Helen. *Under the Feet of Jesus*. 1995.

bCourses: Check bCourses for assignment sheets, resources, announcements, lecture outlines and PPT slides (posted before lectures), unit web sites, etc. You will be notified of all new postings by email, and you are responsible for knowledge of all bCourses posts.

Electronic devices in class policy: You may use your computer or tablet to take notes and search for and refer to lecture related material while in lecture and section. However, you are not allowed to use any electronic device for non-class related purposes while in lecture or section. If you do so, you will be subject to a 25/1000 point deduction from your course grade for a first offense, a 50 point deduction for a second offense, and a 100 point deduction for a third offense. After that, you will fail the course.

Course email: See page 1 for instructor email addresses. Please do not use bCourses to email instructors. The subject line for all email messages to Dr. Spreyer and GSIs should be titled: **“ESPM 50 – student last name, first name – your specific message subject.”** If the message regards a specific assignment, please use the assignment abbreviation key term to identify the assignment after your first name. The instructors are not responsible for responding to improperly titled messages.

Academic dishonesty and plagiarism: Plagiarism is a BIG problem at UC Berkeley. While some students purposefully plagiarize by submitting purchased term papers or failing to cite sources, etc., many others do so simply because they don’t understand how to properly reference ideas and information. It is your responsibility not to plagiarize. See <http://www.lib.berkeley.edu/instruct/guides/citations.html> and “Understanding plagiarism” in the assignments folder on bCourses and for guidelines on avoiding plagiarism. If you are uncertain about whether you have plagiarized material, check with your GSI before you submit an assignment.

Assignment and test abbreviated title key: Course documents will often refer to assignments by the abbreviations used in the assignment title key. Please use the abbreviations in this key to title all assignments at the top of the first page, in file titles, and in email headings.

Weekly Reflections: WR (WR1, WR2, WR3, etc.)

Family and Natural Resources Paper: FNR paper

Extra Credit: XC1, XC2, XC3, etc.

Final Project – Option (1, 2, 3, etc.): FP – O1, O2, O3, etc.

Final Project – Option 1

- Final Project – Option 1 – Descriptive Paragraph: FP – O1 – DP
- Final Project – Option 1 – Outline: FP – O1 - Outline
- Final Project – Option 1 – Rough Draft: FP – O1 – RD
- Final Project – Option 1 – Peer Review: FP – O1 - PR
- Final Project – Option 1 – Peer Review Response: FP – O1 – PRR
- Final Project – Option 1 – Final Draft: FP – O1 – FD

*See Final Project assignment sheet for additional option title abbreviations

Exams:

- Midterm: MT
- Final Exam: FE

Quizzes:

- Q1, Q2, Q3, etc.
- Book Quiz: BQ – Book Author’s last name

Assignment and test schedule:

Week	Assignment	Test
Week 1		No quiz
Week 2		Quiz
Week 3	WR3	Quiz
Week 4	WR4	Quiz
Week 5	FNR paper	Quiz
Week 6	WR6	Quiz
Week 7	WR7	Quiz
Week 8		Exam
Week 9		Quiz
Week 10	WR10 (Book WR & in-section quiz)	Quiz
Week 11	See FP assignment sheet	Quiz
Week 12	See FP assignment sheet	Quiz
Week 13	See FP assignment sheet	Quiz
Week 14	See FP assignment sheet	Quiz
Week 15	See FP assignment sheet	No quiz
Week 16	See FP assignment sheet	Exam

Final exam: Tuesday (5/10), 7-10pm. Location tba.

Assignment submission: Unless otherwise noted in the syllabus, all assignments are due in hard copy in your discussion section and on bCourses on the day of your section meeting by 10am or before section if your section meets earlier.

Assignment file titling protocol: Each assignment file should be titled and headed as follows: ESPM 50 – F'16 – Abbreviated assignment title (see title key for abbreviations) - Your Last Name, Your First Name - Section #.

Quizzes: You must complete your choice of any 6 of the 12 reading quizzes, as well as the in-section week 11 book quiz.

WEEK 1

Section: Discussion sections do not meet this week.

UNIT I: AFRICAN AMERICANS AND HURRICANE KATRINA IN NEW ORLEANS

This unit introduces subjects that frame our study of culture and natural resource management in the course. First, we discuss concepts associated with the American Cultures requirement. Then we set the stage for understanding historical relationships between resource use and the experiences of different racial groups by examining events in New Orleans before, during and after Hurricane Katrina. We emphasize that culture and nature are not separate, but shape one another. And we explore property rights and visions of the social contract.

Unit websites: See the Units folder on bCourses for required and recommended unit websites.

Section: Discussion sections do not meet this week.

Aug 24. Course introduction: American Cultures and natural resources

Aug 26. Hurricane Katrina and environmental history

Kelman, Ari. "In the shadow of disaster: Rebuilding in harm's way." The Nation, vol. 282, no. 1 (Jan 2, 2006): 1-3.
<https://www.thenation.com/article/shadow-disaster/>

Worster, Donald. "Doing environmental history." Carolyn Merchant ed., Major Problems in American Environmental History (2005). 2-9.

WEEK 2

Section: Discussion sections meet for the first time this week.

Aug 29. In the low ground: society, geography and identity in New Orleans

Campanella, Richard. "An Ethnic Geography of New Orleans." Journal of American History, 94 (Dec 2007): 704–715.
http://richcampanella.com/assets/pdf/article_Campanella%20Journal%20of%20American%20History-ethnic%20geography%20of%20New%20Orleans.pdf

Madrigal, Alexis C. "What we've done to the Mississippi River: An explainer." Atlantic (May 19, 2011): 1-12.
<http://www.theatlantic.com/technology/archive/2011/05/what-weve-done-to-the-mississippi-river-an-explainer/239058/>

100 years of mismanagement leading to collapse.
<http://www.mississippiriverdelta.org/files/2011/11/map-100-years-of-mismanagement.pdf>

Recommended video: New Orleans. The Natural History
<https://www.youtube.com/watch?v=UI3hML6U06g>

Recommended video: The Big Uneasy. https://www.youtube.com/watch?v=rjby_T_rI

Aug 31. Race, racism and representation

Winant, Howard and Michael Omi. "Racial formation." Racial Formation in the United States From the 1960s to the 1990s (1994). 53-69.

Recommended video: "Racial Formation in the U.S.: Conversation with Michael Omi and Howard Winant." <https://www.youtube.com/watch?v=ID2dGcbo1KA>

Sep 2. Faubourg Tremé: Local stories and historic events

Film in class: Faubourg Tremé

powell, john a., et al. "Towards a transformative view of race: The crisis and opportunities of Katrina." Chester Hartman and Gregory D. Squire eds., There is No Such Thing as a Natural Disaster (2006). 59-84.

<http://www.plannersnetwork.org/2006/04/towards-a-transformative-view-of-race-the-crisis-and-opportunity-of-katrina/>

WEEK 3

Section: Weekly reflections (WR3) due in section and on bCourses. Students in Monday sections should submit only electronically, on bCourses by 10am, Tuesday (9/6).

Sep 5. Labor Day. No Class

Recommended: http://www.pbs.org/newshour/bb/business/september96/labor_day_9-2.html

Recommended: <http://www.iww.org/projects/mayday/origins.shtml>

Sep 7. Structural racism and Katrina: mainstream and critical perspectives

Reed, Adolph, et al. "Hurricane Katrina and Bernie Sanders: From neoliberal disaster to 'political revolution'." Common Dreams (July 7, 2016).

<http://www.commondreams.org/views/2015/08/29/hurricane-katrina-and-bernie-sanders-neoliberal-disaster-political-revolution>

Klein, Naomi. "The shock doctrine in action in New Orleans." Huffington Post (Dec 21, 2007). http://www.huffingtonpost.com/naomi-klein/the-shock-doctrine-in-act_b_77886.html

Video: George W. Bush, Kanye West, and Amy Goodman interview of Eric Michael Dyson (Mar 6, 2006). Democracy Now. 24 mins.

http://www.democracynow.org/2006/3/6/come_hell_or_high_water_michael

* Use real media player (<http://realmedia.com>) or another application to view this.

** To view the video, click on "real video stream" below the program title on the web page. Go to the beginning of the segment at 35:40 minutes in the program.

Sep 9. Racial projects, housing projects, and engineering projects: Rebuilding New Orleans / restoring southern Louisiana's wetlands

MR-GO Must Go Coalition. 10th Anniversary of Katrina: Making New Orleans a Sustainable Delta City for the Next Century (2015). 1-23.
<http://www.mrgomustgo.org/images/stories/pdf/mrgo-k10-report-small.pdf>

Lewis, Josh. "A river cresting in New Orleans: A complex choreography of water, technology and bureaucracy that only sometimes serves people and nature."
<http://www.thenatureofcities.com/2016/02/04/a-river-cresting-in-new-orleans-a-complex-choreography-of-water-technology-and-bureaucracy-that-only-sometimes-serves-people-and-nature/>

Video: New Orleans: Recovery or Removal? GRITtv with Laura Flanders. 25 mins.
<https://www.youtube.com/watch?v=1w2nb7wP85Y>

Video: "Are New Orleans' post-Katrina flood defenses strong enough?" PBS NewsHour. 8 mins. <https://www.youtube.com/watch?v=gaqPx3Rden0>

Recommended: Mezzi, Pietro. "New Orleans has a plan to keep the water at bay." Abitare (Jul 31, 2015). *Also see the photo gallery link at the end of the article.
<http://www.abitare.it/en/habitat-en/urban-design-en/2015/07/31/new-orleans-has-a-plan-to-keep-the-water-at-bay/>

Recommended: Marshall, Bob. "New research indicates Mississippi River diversions could harm marshland." The Lens (Apr 10, 2013).
<http://thelensnola.org/2013/04/10/new-research-indicates-mississippi-river-diversions-could-harm-marshland/>

Recommended video: Ten Years After Katrina, Has New Orleans Been Rebuilt, Or Just Gentrified? 5 mins.
<https://www.youtube.com/watch?v=QW3tV4C8IGMMRGO>

WEEK 4

Section: WR4 due in section and on bCourses.

Sep 12. Property as social process

Macpherson, C.B. "The meaning of property." C.B. Macpherson, ed., Property: Mainstream and Critical Positions (1981). 1-11.

Sep 14. Revolutionary values: property, liberty and the American social contract

Locke, John. "Property." Second Treatise on Government (1689). 10-18.
<http://www.earlymoderntexts.com/assets/pdfs/locke1689a.pdf>

Deloria Jr., Vine. "Minorities and the Social Contract," Georgia Law Review, Vol. 20, No. 917 (1985-1986): 917-34.
http://heinonline.org/HOL/Page?handle=hein.journals/geolr20&div=38&g_sent=1&collection=journals

The Declaration of Independence (1776).
http://www.archives.gov/exhibits/charters/declaration_transcript.html

UNIT II: NATIVE AMERICANS, EUROPEAN AMERICANS AND NATURAL RESOURCES

We examine historical Native American and European American natural resource management practices, focusing on divergent concepts of nature and property, the implications of contact with Europeans and involvement in emerging global trade for Indian populations and environments. Then we explore ideas and representations of Native Americans and the frontier in the popular imagination. Next, we review federal resource management and Indian policy. Finally, we consider a case study of Yurok resource management in northern California. Throughout, we seek to understand how land has moved from Indian to European American control, and the significance of this process for people and ecosystems.

Sep 16. Northeastern woodlands Indian resource management

Merchant, Carolyn. "From corn mothers to Puritan fathers." Ecological Revolutions: Nature, Gender, and Science in New England (1989). 69-85.

Cronon, William. "Bounding the land." Changes in the Land: Indians, Colonists, and the Ecology of New England (1988). 54-67.

WEEK 5

Section: FNR paper due in section and on bCourses.

Sep 19. Colonist resource management in New England

Cronon, William. "Bounding the land." Changes in the Land: Indians, Colonists, and the Ecology of New England (1988). 67-81.

Nash, Roderick. "Introduction" and "Prologue." Wilderness and the American Mind (2001). xi-xiv; 1-7.

Sep 21. Changing landscapes in the New World

Cronon, William. "A world of fields and fences." Changes in the Land: Indians, Colonists, and the Ecology of New England (1988). 127-53.

Jefferson, Thomas. "Thomas Jefferson extols the agrarian ideal, 1787." Carolyn Merchant ed., Major Problems in American Environmental History (2005). 134.

Sep 23. The North American fur trade

Wolf, Eric R. "The fur trade." Europe and the People without History. (1982). 158-172; 192-194.

Martin, Calvin. "Micmacs and the French in the northeast." Carolyn Merchant ed., Major Problems in American Environmental History (2005). 50-58.

WEEK 6

Section: WR6 due in section and on bCourses.

Sep 26. The ecological Indian?

Krech, Shephard. "Fire." The Ecological Indian: Myth and History (1999). 101-22.

Anderson, M. Kat. "Methods of caring for the land." Tending the Wild: Native American Knowledge and the Management of California's Natural Resources. (2005). 125-127; 144-154.

Recommended: Tallbear, Kimberly. "Shepherd Krech's The Ecological Indian: One Indian's Perspective." International Institute for Indigenous Resource Management (Sept. 2000). 1-5.
<http://www.iiirm.org/publications/Book%20Reviews/Reviews/Krech001.pdf>

Sep 28. The frontier: myth and rurality

Turner, Frederick Jackson. "The Significance of the Frontier in American History" (1894).

Limerick, Patricia Nelson. "Introduction: Closing the frontier and opening western History;" "Property values." The Legacy of Conquest: The Unbroken Past of the American West (1988). 17-32; 55-62.

Robbins, William G. "Ideology and the way west." Colony & Empire: The Capitalist Transformation of the American West (1994). 3-21.

Recommended: Scott, Donald M. "The Religious Origins of Manifest Destiny." <http://nationalhumanitiescenter.org/tserve/nineteen/nkeyinfo/mandestiny.htm>

Sep 30. Scientific Forestry and conservation

Film in class: The Greatest Good.

Catton, Theodore. "Indians, non-Indians, and the American forest to 1900." American Indians and National Forests (2016). 22-34.
<https://muse.jhu.edu/chapter/1833603>

Scott, James. "Nature and space." Seeing Like a State: How Certain Schemes to Improve the Human Condition Have Failed (1998). 11-22.
<https://libcom.org/files/Seeing%20Like%20a%20State%20%20James%20C.%20Scott.pdf>

WEEK 7

Section: WR 7 due in section and on bCourses.

Oct 3. Inventing the Indian

*Come to class prepared to discuss images from this lecture's powerpoint presentation.

** Please refer to the powerpoint file titled "Schimmel images" in the "Inventing the Indian" lecture folder on bCourses while reading the Schimmel article.

Schimmel, Julie. "Inventing the Indian." William H. Truettner, ed., The West As America: Reinterpreting Images of the Frontier, 1820-1920 (1991). 149-89.

Oct 5. Indian policy 1: federal powers

Deloria Jr., Vine and Clifford M. Lytle. "American Indians in historical perspective." American Indians, American Justice (1983). 1-8.

<http://www.peacecouncil.net/NOON/IndianRightsOverview.pdf>

Kidwell, Clara Sue. "The Effects of Removal on American Indian Tribes."

<http://www.nhc.rtp.nc.us/tserve/nattrans/ntecoindian/essays/indianremoval.htm>

Oct 7. Indian policy 2: wardship and sovereignty

Deloria Jr., Vine and Clifford M. Lytle. "American Indians in historical perspective." American Indians, American Justice (1983). 8-24.

<http://www.peacecouncil.net/NOON/IndianRightsOverview.pdf>

Audio and article: Robertson, Mary Jean. "Reflections from Occupied Ohlone Territory."

http://www.foundsf.org/index.php?title=Reflections_from_Occupied_Ohlonе_Territory

WEEK 8

Section: no assignment due

Oct 10. Managing the Yurok forest

Huntsinger, Lynn and Sarah McCaffrey. "A Forest for the Trees: Forest Management and the Yurok Environment, 1859-1994." American Indian Culture and Research Journal 19:4 (1995). 155-92. <http://nature.berkeley.edu/huntsingerlab-wp/wp-content/uploads/2013/08/huntsinger-mccaffrey-yurok-good-copy.pdf>

Oct 12. Fire management in northern California: Integrating Karuk traditional ecological knowledge and western fire science

Film in class: Catching Fire: Prescribed Burning in Northern CA.

<http://www.youtube.com/watch?v=LWriDpfZnXQ>

Karuk Tribe. Integrating Traditional Ecological Knowledge within Natural Resource Management. 1-5.

http://tribalclimate.uoregon.edu/files/2010/11/Karuk_profile_5_14-12_web1.pdf

Oct 14. **Midterm 1** – Bring a large blue (or, better yet, green) book for the exam.

WEEK 9

Section: Come to section having read the final project assignment sheet, which is available in the “Final Project” folder on bCourses. Be prepared to discuss possible final project ideas.

UNIT III: ASIAN AMERICANS AND NATURAL RESOURCES IN CALIFORNIA

We study Asian American immigration and life in California, focusing on the experiences of Chinese and Japanese Americans between the Gold Rush and the Second World War. We consider their roles in the development of mining, transportation and agriculture, and their relationships with European Americans and the state.

Film: Becoming American: The Chinese Experience.

The required segments of a streaming version of this film are listed in the document titled “ESPM 50 – Becoming American – Viewer info – F’16” in the Unit III resources folder on bCourses. View this film online by Friday (10/28) or see a screening of the film on Thursday night (10/20). Time and location tba.

Oct 17 & 19. California resource capitalism

Walker, Richard. “California's Golden Road to Riches. Natural Resources and Regional Capitalism, 1848-1940.” Annals of the Association of American Geographers, 9 (1) (2001). 167-99.
http://geography.berkeley.edu/wpcontent/uploads/2016/01/Walker_72.pdf

Oct 21. Chinese immigration and labor

Takaki, Ronald. “Overblown with hope: The first wave of Asian immigration.” Strangers from a Different Shore: The History of Asian Americans (1989). 21-42.

Saxton, Alexander. “The labor force in California.” The Indispensable Enemy: Labor and the Anti-Chinese Movement in California (1995). 3-18.

WEEK 10

Section: See final project submission schedule.

Oct 24. Chinese immigrants and the California gold rush

Chang, Iris. “Gold rushers on Gold Mountain.” The Chinese in America (2003). 38-46.

Rohe, Randall. “Mining’s impact on the land.” Carolyn Merchant ed., Green Versus Gold: Sources in California’s Environmental History (1998). 125-35.

Oct 26. Building the first transcontinental railroad

Chang, Iris. “Building the transcontinental railroad.” The Chinese in America (2003).

White, Richard. “Labor in nature.” Railroaded: The Transcontinentals and the Making of Modern America (2011). 225-29.

Oct 28. Chinese exclusion and resistance

Limerick, Patricia Nelson. "Racialism on the run." The Legacy of Conquest: The Unbroken Past of the American West (1988). 259-69.

Okihiro, Gary Y. "Extending democracy's reach." Clyde A Milner II ed., A New Significance: Re-envisioning the History of the American West (1996). 168-73.

WEEK 11

Section: All students should attend a section on your book choice. The book weekly reflections assignment is due in the section that you attend this week.

Oct 31. Chinese laborers and farmers in the California Delta

Chan, Suchen. "New world delta" and "Potato kings." This Bittersweet Soil (1986). 160-62; map on page 166; 171-91; 192-203.

Recommended: Gillenkirk, Jeff and James Motlow. "Ping Lee;" "Jo Lung" Bitter Melon: Inside America's Last Rural Chinese Town (1997). 29-40; 84-87.

Recommended: Locke, Ca. photos: <http://www.scrapbookpages.com/photoessays/Locke/>

Nov 2. Japanese immigration and agriculture

Takaki, Ronald. "Ethnic solidarity: The settling of Japanese America." Strangers from a Different Shore: The History of Asian Americans (1989). 179-197.

Limerick, Patricia Nelson. "Disorientation and reorientation: The American landscape discovered from the West." Something in the Soil: Legacies and Reckonings in the New West (2000). 200-213.

Recommended: Film & article: Myrow, Rachel. Hard Row to Hoe: Japanese farming in the Santa Clara Valley. KQED, The California Report (2015). View beginning to 31:02 minutes. <http://ww2.kqed.org/news/2015/04/23/hard-row-to-hoe-japanese-farming-in-the-santa-clara-valley/>

Recommended: Graves, Donna. Discovering pre-WWII Japantowns in the East Bay. http://www.californiajapantowns.org/EastBayPreWWII_Japantowns.pdf

Recommended: The Japanese nursery industry in the Bay Area. <http://www.janurseries.com/history/>

Nov 4. Guest speaker Kaz Mori will discuss his camp experience.

Saiki, Barry. "The uprooting of my two communities." Roger Daniels et al. ed., Japanese Americans: from relocation to redress (1991). 15-17.

Okihiro, Gary Y. and David Drummons. "The concentration camps and Japanese economic losses in California agriculture, 1900-1942. Roger Daniels et al. ed., Japanese Americans: from relocation to redress (1991). 168-75.

WEEK 12

Section: See final project submission schedule.

UNIT IV: CALIFORNIA WATER RESOURCE MANAGEMENT

We will dive into historical and contemporary water resource management issues in California, emphasizing the interplay of shifting socioeconomic and cultural contexts as they shape the development and implementation of water resource science, policy and management. We will conclude with two lecture periods in which students will present their final project research on issues associated with water and drought in the Golden State.

Nov 7. California waterscapes

Hannack, Ellen, et al. "Introduction;" "Floods, droughts, and lawsuits: A brief history of California water policy." Managing California's Water: From Conflict to Reconciliation (2011). 1-12; 19-33.

http://www.ppic.org/content/pubs/report/R_211EHR.pdf

Austin, Chris. "Maven's notebook: California's water systems."

<http://mavensnotebook.com/the-notebook-file-cabinet/californias-water-systems/>

Nov 9. Plumbing the Golden State 1: water rights ... and wrongs

Hannack, Ellen, et al. "Floods, droughts, and lawsuits: A brief history of California water policy." Managing California's Water: From Conflict to Reconciliation (2011). 33-56.

http://www.ppic.org/content/pubs/report/R_211EHR.pdf

Nov 11. Veterans Day. No Class.

Recommended: Junger, Sebastian. "How PTSD became a problem far beyond the battlefield." Vanity Fair (7 May 2015).

<http://www.vanityfair.com/news/2015/05/ptsd-war-home-sebastian-junger>

WEEK 13

Section: See final project submission schedule.

Nov 14. Plumbing the Golden State 2: California's hydraulic society

Hannack, Ellen, et al. "Floods, droughts, and lawsuits: A brief history of California water policy." Managing California's Water: From Conflict to Reconciliation (2011). 56-69.

http://www.ppic.org/content/pubs/report/R_211EHR.pdf

Nov 16. Plumbing the Golden State 3: water wars and reconciliation

Film in class: Over Troubled Water (2015). 45 mins.

KQED Quest. California's Deadlocked Delta. nd.
<http://science.kqed.org/quest/delta-map/>

Madrigal, Alexis C. "American aqueduct: The great California water saga." The Atlantic (Feb 24, 2014).
<http://www.theatlantic.com/technology/archive/2014/02/american-aqueduct-the-great-california-water-saga/284009/>

Nov 18. Looking to the future: Managing water as a "public commodity"

Gray, Brian E. "The reasonable use doctrine in California water law and policy." Allison Lassiter ed., Sustainable Water: Challenges and Solutions from California (2015). 83-107.
http://repository.uchastings.edu/cgi/viewcontent.cgi?article=1986&context=faculty_scholarship

Hannack, Ellen, et al. "A way forward." Managing California's Water: From Conflict to Reconciliation (2011). 411-28.
http://www.ppic.org/content/pubs/report/R_211EHR.pdf

WEEK 14

Section: No section this week.

Nov 21. Reclaiming the City's River: The Politics of Urban Sustainability and Restoration of the Los Angeles River

Guest speaker: Esther Kim

Readings tba

Nov 23. Thanksgiving break. No class

Nov 25. Thanksgiving break. No class

WEEK 15

Section: See final project submission schedule.

Nov 28. Student presentations 1. Readings tba

Nov 30. Student presentations 2. Readings tba

Dec 2. Course wrap up. Readings tba

Final exam: Dec 12, 11:30-2:30. Location tba.