ENVIRONMENTAL PLANNING & MANAGEMENT

PP&D 275
Spring 2019
Course Code 53720
Tuesdays 2-4:50pm
SBSG 3240
Course website: https://canvas.eee.uci.edu/courses/15826

Professor Nicola Ulibarri
Email: ulibarri@uci.edu
Office Hours: by appointment
Office: Social Ecology I Room 206B

Course Description

This class introduces current best practices for environmental planning and management. Starting from a stance that effective environmental management should be collaborative, adaptive, and grounded in science, the class discusses tools, techniques, and approaches for environmental planners and managers. Importantly, this is not a class on environmental law and/or policy—you can find those elsewhere on campus. Instead, we focus on the practice of planning for and managing sustainability. We will cover the entire process of environmental planning, including scoping, predicting and measuring impacts, selecting alternatives, implementing and monitoring those alternatives. Each class will also cover the causes and consequence of one "environmental challenge" from a technical perspective. Readings and discussions will cover both specific tools and theoretical considerations for each step of the process. You will practice applying these mindsets and approaches through an in-class simulation of an environmental planning process and through a group project analyzing a real-world environmental planning problem.

Expected Learning Outcomes

1. You will be able to articulate the characteristics of socio-ecological systems and their implications for the practice of planning and management.
2. You will be able to describe and select tools and approaches for scoping an environmental problem, formulating and selecting plan/program alternatives, evaluating environmental impacts, and monitoring implementation.
3. You will understand social and technical dimensions of common environmental challenges, including water, air quality, habitat conservation, and climate.
4. You will be able to evaluate the broader political and social context surrounding a planning problem and articulate how it might affect the planning process.

Course Requirements and Assignments

1. In-Class Participation

This course centers on active discussion of readings, concepts, and tools in environmental planning & management. It is expected that you will be an active participant in the class: that you complete all assigned readings, attend class sessions regularly, and come prepared for class discussion, and that you are an active, engaged participant in class discussions and activities.

Your in-class participation grade will be derived from a self-assessment of your engagement in the class sessions and the instructor's observation. The self-assessment quiz is due in Week 11.

2. Weekly Reading Posts

To begin engaging with the readings before class, you will post a short weekly post on that week's readings. Prompts for each post are listed on Canvas. Posts are due by **Tuesday at 11am**. You are encouraged to read through your classmates' posts and engage with their questions and responses. You will receive 1 point for each complete reading post.

Links to all readings are available on the syllabus on the Canvas website.

3. Reflection papers

During the quarter, you will write two short reflection papers discussing ideas raised in class. Responses should be 500 to 750 words, and are due on **Monday** of the week listed **at 9am**.
In the first response, due Week 6, you will articulate your vision of the process and practice of planning and management.
The second response, due Week 10, will be a debrief on the in-class environmental simulation.

4. Site Assessment

You will draw on the ideas from Weeks 1-4 to conduct an initial assessment of environmental characteristics for a site of your choosing. The site assessment is due **Monday of Week 5 at 9am**.

5. Group Project Presentation & Report

During the quarter, you will work in a team of 2 or 3 to design the approach for addressing a current environmental planning or management problem. Your analysis will include: describing the problem; designing a planning and engagement process; identifying the data, indicators, and analysis approaches you would use to develop a management plan; and discussing how you would monitor the plan after implementation.

The team projects consist of a series of short assignments:

- a 1-2 paragraph description of your project idea (due Week 3)
- an annotated bibliography with 5-6 sources relevant to your project (due Week 5)

- an outline of your final paper (due Week 7)
- a 10-minute presentation (in class in during Final Exam slot)

These assignments allow us to workshop your ideas throughout the quarter. Please bring a hard copy of each assignment to class.

The final report will be due at 5pm on **Thursday of Week 11**.
The report will consist of two components:

- A 10-page team report detailing your problem and proposed approach.
- An individual reflection, 3-4 pages long, using ideas and theory from the class to evaluate the strengths and limitations of your proposal.
- Both components should be double spaced with 12 point font and 1-inch margins.

Policies on Absences and Late Assignments

Because we only meet 10 times during the quarter and the class centers on your participation, it is expected that you will attend all sessions. However, recognizing that we all have lives and complications, students will be able to make up one missed session with an additional written response assignment. If you will have to miss a class for any reason, email me for pre-approval and the response prompt.

If you know you will be not be able to complete an assignment on the assigned date/time because of an external obligation, notify me by email at least 4 days before the assignment is due and we will discuss an alternative due date.

In the absence of a pre-approval:

- For reading posts, you will receive full credit for posts completed by the deadline, and 50% for all late posts.
- For responses, you will lose 1 point for each day it is late.

Barring an exceptional circumstance, no extensions will be given for group project assignments.

Grading Breakdown (ABCD/F or P/NP)

Weekly Reading Posts	10%
Participation	15%
Reflection Papers	20%
Site Assessment	15%
Final Project	40%
Final Project Breakdown:	
Project Proposal	*6.7%*
Annotated Bibliography	*6.7%*
Detailed outline	*8.8%*
Presentation	*22.2%*

Team Report	*33.3%*
Individual Report	*22.2%*

Course Outline & Readings

Week	Date	Topic	Assignments	Readings
Part I: Introduction				
1	2-Apr	Intro to Environmental Planning & Management	Reading post due 11am	Randolph, John. 2004. *Environmental Land Use Planning and Management*. Washington: Island Press. Chapters 1-2. Seto, Karen C., Roberto Sánchez-Rodríguez, and Michail Fragkias. 2010. "The New Geography of Contemporary Urbanization and the Environment." *Annual Review of Environment and Resources* 35 (1): 167–94. doi:10.1146/annurev-environ-100809-125336.
Part II: Tools & Processes for Environmental Planning & Management				
2	9-Apr	Scoping, Identifying Issues of Concern; Formulating and Selecting Management Alternatives	Reading post due 11am	Videira, Nuno, Paula Antunes, and Rui Santos. 2009. "Scoping River Basin Management Issues with Participatory Modelling: The Baixo Guadiana Experience." *Ecological Economics*, 68 (4): 965–78. doi:10.1016/j.ecolecon.2008.11.008. Ahmed, Kulsum, and Ernesto Sánchez-Triana, eds. 2008. *Strategic Environmental Assessment for Policies: An Instrument for Good Governance*. Environment and Development. Washington, DC: World Bank. Chapter 4. Taylor, C, Pollard, S, Rocks, S and Angus, A. 2012. Selecting Policy Instruments for Better Environmental Regulation: a Critique and Future Research Agenda. *Environmental Policy and Governance* 22: 268-292.
3	16-Apr	Assessing Plan and Project Impacts; Selecting Environmental Quality Indicators	Reading post due 11am Project proposal due in class	Ahmed, Kulsum, and Ernesto Sánchez-Triana, eds. 2008. *Strategic Environmental Assessment for Policies: An Instrument for Good Governance*. Environment and Development. Washington, DC: World Bank. Chapters 1-2. CEQ. 2007. A Citizen's Guide to the NEPA: Having Your Voice Heard. https://energy.gov/sites/prod/files/nepapub/nepa_documents/RedDont/G-CEQ-CitizensGuide.pdf Donnelly, Alison, Mike Jones, Tadhg O'Mahony, and Gerry Byrne. 2007. "Selecting Environmental Indicator for Use in Strategic Environmental Assessment." *Environmental Impact Assessment Review* 27 (2): 161–75. doi:10.1016/j.eiar.2006.10.006.
4	23-Apr	Implementation, Monitoring, and Assessment	Reading post due 11am	Chaffin, Brian C., et al. 2016. "A Tale of Two Rain Gardens: Barriers and Bridges to Adaptive Management of Urban Stormwater in Cleveland, Ohio." *Journal of Environmental Management*, 183: 431–41. doi:10.1016/j.jenvman.2016.06.025. Ferraro, Paul J. 2009. "Counterfactual thinking and impact evaluation in environmental policy." In M Birnbaum & P Mickwitz (Eds.), *Environmental*

				program and policy evaluation: Addressing methodological challenges. New Directions for Evaluation, 122: 75–84. Koontz, Tomas & Jens Newig. 2014. "From Planning to Implementation: Top-Down and Bottom-Up Approaches for Collaborative Watershed Management". *Policy Studies Journal* 43(3): 416–442. http://onlinelibrary.wiley.com/doi/10.1111/psj.12067/full
5	29-Apr		Site Assessment due 9am	
	30-Apr	Planning for Ecosystem Health, Balancing tradeoffs	Reading post due 11am Project annotated bibliography due in class	Larrey-Lassalle, Pyrène, et al. 2017. "An Innovative Implementation of LCA within the EIA Procedure: Lessons Learned from Two Wastewater Treatment Plant Case Studies." *Environmental Impact Assessment Review* 63 (March): 95–106. doi:10.1016/j.eiar.2016.12.004. Lennon, Mick & Mark Scott. 2014. "Delivering ecosystems services via spatial planning: reviewing the possibilities and implications of a green infrastructure approach." *Town Planning Review* 85(5): 563–587. https://doi.org/10.3828/tpr.2014.35 EcoAgriculture Partner. 2017. Public Policy Guidelines for Integrated Landscape Management. http://ecoagriculture.org/wp-content/uploads/2017/01/Public-Policy-Guidelines-for-ILM-January-2017-Final.pdf
6	6-May		Reflection 1 due 9am	
Part III: Environmental Planning in Practice				
	7-May	Planning for Environmental Hazards	Reading post due 11am	Masterson, Jaimie Hicks, et al. 2014. *Planning for Community Resilience: A Handbook for Reducing Vulnerability to Disasters*. Washington: Island Press. Chapter 3. Turner, B. L., et al. 2003. "Illustrating the Coupled Human–environment System for Vulnerability Analysis: Three Case Studies." *Proceedings of the National Academy of Sciences* 100 (14): 8080–85. doi:10.1073/pnas.1231334100. Jabareen, Yosef. 2013. "Planning the Resilient City: Concepts and Strategies for Coping with Climate Change and Environmental Risk." *Cities* 31 (April): 220–29. doi:10.1016/j.cities.2012.05.004.
7	14-May	Environmental Justice	Reading post due 11am Final project outline due	Agyeman, Julian, et al. 2016. "Trends and Directions in Environmental Justice: From Inequity to Everyday Life, Community, and Just Sustainabilities." *Annual Review of Environment and Resources* 41 (1): 321–340. https://doi.org/10.1146/annurev-environ-110615-090052

			in class	Byrne, Jason, Wolch, Jennifer, & Zhang, Jin. 2009. “Planning for environmental justice in an urban national park.” *Journal of Environmental Planning and Management* 52(3): 365–392. https://doi.org/10.1080/09640560802703256 Additional reading to be added
8	21-May	Science and Collaboration Simulation 1	Reading post due 11am	Wheeler, Michael. 2002. *Negotiation Analysis: An Introduction*. Harvard Business School Case 9-201-156. Ulibarri, Nicola. 2015. “Tracing Process to Performance of Collaborative Governance: A Comparative Case Study of Federal Hydropower Licensing.” *Policy Studies Journal* 43 (2): 283–308. doi:10.1111/psj.12096. Case study material
9	28-May	Science and Collaboration Simulation 2	Reading post due 11am	Review case study material
10	3-Jun		Reflection 2 due 9am	
	4-Jun			***NO CLASS SESSION***
11	13-Jun	Team Presentations (1:30-3:30pm)	Final Reports due 5pm Participation Assessment due 5pm	

Add/Drop Policies

DROPS must be submitted by 5PM of week 2 using WebReg.
ADDS must be submitted by 5PM of week 3 using WebReg.
CHANGE must be submitted by 5PM of week 2 using WebReg. From week 3 through 6, you must use the Student Access system to submit a request for a grade option change. No exceptions will be considered after week 6.

Students with Disabilities

If you anticipate needing any type of an academic accommodation in this course or have questions about physical access, please discuss this with me during the first week of class AND please register with the Disability Services Center (http://www.disability.uci.edu/). In order to receive any type of academic accommodation, I will need formal notification from the Disability Services Center during the first two weeks of the quarter of the type of academic accommodations to which your disability entitles you.