

URP 542/SEA 592 ENVIRONMENTAL PLANNING: ISSUES AND CONCEPTS

University of Michigan Fall 2018 Syllabus

Instructor:

Ana Paula Pimentel Walker, Ph.D.

Assistant Professor in Urban and Regional Planning

Class Meetings:

Time: Tuesday/Thursday 2:30am-4:00pm

Location: 2108 Art & Architecture Building

Office Hours: Tuesdays, 12-1 and Thursday, 4-5 p.m.

or by appointment via e-mail (appiment@umich.edu)

Office Location: Taubman College New Wing #2370.



COURSE DESCRIPTION: This is an introductory graduate-level course on the issues and concepts underlying environmental policy making and planning. Rather than concentrating on one particular type of planning method (e.g., cost-benefit analysis, impact assessment, site design), the course is designed to address recurrent value-based and analytical conflicts that cross the array of various environmental policy making and planning processes employed mainly in the United States, but also abroad. The principal goal of the course is to provide students with the knowledge and skills they will need to be thoughtful and creative professionals who are capable of recognizing the key disjunctions in communication and analysis that often hinder the achievement of effective and satisfying environmental policy and planning solutions. Through a combination of lectures, readings, student presentations, and discussions, we will think critically about land use regulations and their environmental impact. By approaching the various themes of environmental planning through different perspectives and levels of analysis, we seek a balance between becoming familiar with the nuts and bolts of environmental planning practice and brainstorming about the big visions and theories with which we tackle our environmental problems.

LEARNING OBJECTIVES: The course is designed to: (a) provide students with the ability to recognize and tease apart the competing values and analytical assumptions made by various stakeholders in environmental policy-making and planning debates; (b) consider how those debates are shaped by and play out within the political, legal, and administrative processes that characterize environmental policy making and planning in the United States; (c) familiarize students with the various forms of contemporary environmental policy-making and planning practice that they will likely encounter in their professional work; (d) introduce graduate students to a broad range of issues in environmental planning, including environmental justice, solid waste and recycling, and local climate change action plans, just to name a few.

COURSE REQUIREMENTS AND GRADING

Evaluation of Local Sustainability Plans	20%
Case Study Summary and Presentation	15%
Land Preservation Assignment	20%
Class Participation	10%
Research Paper and Presentation	35%
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	100%

If, for a university-approved reason, a student cannot complete an assignment by the due date, the student must contact the instructor beforehand. The instructor can be contacted during office hours, before or after class, and by email. If your assignment is not received by the date and time specified, you will be penalized 10%, and 5% will continuously be subtracted from your grade for each additional day (each twenty-four hour period) that you are late.

Research Paper: You will write a term paper between four and six thousand words based on a review of the current professional literature. You may select a specific area of interest having to do with the environmental planning issues addressed in class. The paper is an opportunity to go into depth on a current topic of the student's interests. Guidelines will be distributed in class and will be retrievable on Canvas. It is important to start thinking early about a specific paper topic. The "Case Study Summary and Presentation" assignment is an opportunity for you to test your topic of choice. Moreover, your case study findings can be included in the final research paper.

Class Participation: Students are responsible for carefully and thoughtfully engaging with course readings prior to each class session in order to contribute to class discussions. Participation in class discussions is an essential part of creating an engaged intellectual community. In class, students are expected to raise themes, ask questions, and probe topics covered in the readings and lectures.

Class meeting should be participatory and dialogic in order to foster participation and an exchange of ideas.

Class Attendance: Class attendance is required. Students missing class due to a religious holiday are strongly encouraged to notify the instructor a week before the absence. In the case of family or individual health emergency or required court appearance, please notify the instructor as soon as you can safely do so.

Services for Students with Disabilities: The University of Michigan is committed to equality and diversity by providing support services and academic accommodations for students with disabilities. You can consult the office and register at <https://ssd.umich.edu/>. Please, contact the instructor, if you have special requirements.

Statement on Diversity, Equity, and Inclusion: Taubman College affirms the principles of diversity, equity, and inclusion as we organize resources and priorities that align with our values. We seek to have a diverse group of persons at all levels of the college - students, faculty, staff and administrators - including persons of different race and ethnicity, national origin, gender and gender expression, socioeconomic status, sexual orientation, religious commitment, age, and disability status. We strive to create a community of mutual respect and trust, a community in which all persons and their respective backgrounds, identities, and views are allowed to be made visible and communicated without the threat of bias, harassment, intimidation, or discrimination.

COURSE OUTLINE (subject to change/additional readings on Canvas)

September 6th: History of Land Use Patterns and the Environmental Planning Process for Sustainable Urban Development

- A. History of Land Use and Environmental Planning
- B. Urban Planning tools and their environmental impact

The Comprehensive Plan
Zoning Ordinances
Subdivision and Land Development Regulations
Capital Improvements Plan and Concurrency

Required:

Daniels, Thomas L. 2009. A Trail across Time: American Environmental Planning from City Beautiful to Sustainability. *Journal of the American Planning Association* 75(2): 178-192.

Recommended:

Randolph, John. 2012. "Chapter One: Environmental Management for Sustainability. In *Environmental Land Use Planning and Management*. Pp: 3-25. Washington, DC: Island Press.

Daniels, Tom and Katherine Daniels. 2003. "Chapter One: Taking Stock of the Local Environment and Creating an Environmental Action Plan." In *The Environmental Planning Handbook for Sustainable Communities and Regions*. Pp. 11-35. Chicago, IL: Planners Press.

September 11th: Sprawl, Growth Management, and Smart Growth

Gillham, Oliver. 2002. "What is Sprawl?" AND "Chapter Ten: Growth Management and Smart Growth." In *The Limitless City: A Primer on the Urban Sprawl Debate*. Pp.: 3-23 AND 153-160. Washington: Island Press.

Landis, John D. 2006. "Growth Management Revisited: Efficacy, Price Effects, And Displacement." *Journal Of The American Planning Association* 72. 4: 411-430.

Song, Yan. 2012. "Suburban Sprawl and "Smart Growth" In *The Oxford Handbook of Urban Planning* 418.

September 13th: Sustainable Action Plans

Beatley, Timothy. 2012. "Sustainability in Planning: The Arc and Trajectory of a Movement, and New Directions for the Twenty-First Century." In *Planning Ideas that Matter: Livability, Territoriality, Governance and Reflective Practice*, pp. 91-124. Cambridge, MA: The MIT Press.

Ruwanza, S., & Shackleton, C. M. (2016). Incorporation of environmental issues in South Africa's municipal Integrated Development Plans. *International Journal of Sustainable Development & World Ecology*, 23(1), 28-39.

E. Innes, Judith, and David E. Booher. 2000. Indicators for Sustainable Communities: A Strategy Building on Complexity Theory and Distributed Intelligence. *Planning Theory & Practice* 1(2): 173-186.

Brugmann, Jeb. 1997. Is There a Method in our Measurement? The Use of Indicators in Local Sustainable Development Planning. *Local Environment* 2(1): 59-72.

Berke, Philip R., and Maria Manta Conroy. 2000. Are We Planning for Sustainable Development? An Evaluation of 30 Comprehensive Plans. *Journal of the American Planning Association* 66(1): 21-33.

September 18th: Key Concepts

Key Concepts:

The Tragedy of the Commons
Ecological Footprint and Carrying Capacity
Brown & Green Agendas
Ecosystem Interdependence
Ecological Principles of Land Use Management.

Own's Green Manhathan

Neuman, Michael. 2005. "The Compact City Fallacy." *Journal of Planning Education and Research*. 25 (1): 11-26.

Speth, James Gustave. 2004. "The Ten Drivers of Environmental Deterioration." In *Red Sky at Morning: America and the Crisis of the Global Environment*. Pp.: 119-139. New Haven and London. Yale University Press.

Burger, Joanna, and Michael Gochfeld. 1998. "The Tragedy of the Commons 30 Years Later." *Environment: Science and Policy for Sustainable Development* 40(10): 4-13.

Rees, William E. 1996. Revisiting Carrying Capacity: Area-Based Indicators of Sustainability. *Population and Environment* 17(3): 195-215.

September 20th: Toxic Hazards and Michigan Clean Up Standards

Marsh, William. 2010. "Assessing Soil for Land Use Planning and Waste Disposal." In *Landscape Planning: Environmental Applications*. Pp: 111-130. Fifth Edition. Expanded 25th anniversary edition. Wiley

Lee, Sangyun, and Paul Mohai. 2013. The Socioeconomic Dimensions of Brownfield Cleanup in the Detroit Region. *Population and Environment* 34(3): 420-429.

Ryan J. Stanton. Pall-Gelman Dioxane Plume: Ann Arbor Officials Want Stricter Cleanup Criteria to Stop Spread. September 1st 2013. Ann Arbor.com.

September 25th: Solid Waste and Recycling

Bullard, Robert. 2005. "Chapter Two: Neighborhoods "Zoned" for Garbage." In *The Quest for Environmental Justice*. Pp.: 43-61. Robert Bullard, Ed. San Francisco: Sierra Club Books.

Rogers, Heather. 2005. "Chapter Eight: The Corporatization of Garbage." In *Gone Tomorrow: the Hidden Life of Garbage*. Pp.: 183-206. San Francisco: The New Press.

Wilson, David C., Costas Velis, Chris Cheeseman. 2006. "Role of Informal Sector Recycling in Waste Management in Developing Countries." *Habitat International* 30(4): 797-808.

More readings TBA and available on Canvas.

September 27th: No class meeting and no readings

October 2nd and 4th: Water Infrastructure and Toxics

Blaine, James G., Bernard W. Sweeney, and David B. Arscott. 2006. "Enhanced Source-Water Monitoring for New York City: Historical Framework, Political Context, and Project Design." *Journal of the North American Benthological Society* 25(4): 851-866.

Vanderwarker, Amy. 2012. "Water and Environmental Justice." In: *A Twenty-First Century US Water Policy*. Christian-Smith, Juliet, and Peter H. Gleick, editors. Pp.: 52-89. Oxford University Press.

More readings TBA and available on Canvas.

October 9 and 11th: Tools for Land Conservation

Some Concepts:

Land Trusts

Easements

Legal Framework for implementing tools

Randolph, J. 2012. Land Conservation for Sustainability (Chapter 15). In *Environmental Land Use Planning and Management*, 2nd Edition. Island Press.

More readings TBA and available on Canvas.

October 16th: Fall Study Break: No classes and no readings

October 18th: EPA, NEPA, Environmental Impact Assessments and Statements

Linda Luther. 2005. The National Environmental Policy Act: Background and Implementation, Congressional Research Service Report for Congress, Nov.

Rosembaum, Walter. 2010. "Science, Politics, and Policy at the EPA." In *Environmental Policy: New Directions for the Twenty-First Century*" Norman Vig and Michael E. Kraft, editors. Pp.: 147-170. Washington D.C.: CQ Press.

Center for Environmental Excellence by AASHTO. NEPA Process

http://environment.transportation.org/environmental_issues/nepa_process/

October 23 and 25th: Climate Justice and Climate Change Adaptation and Mitigation Planning:

The Economist. 2008. "Climate Change and the Poor: Adapt or Die." The Economist, September 13:67.

Corburn, Jason. 2009. Cities, Climate Change and Urban Heat Island Mitigation: Localizing Global Environmental Science. *Urban Studies* 46(2): 413-427.

Harlan, Sharon L., Anthony J. Brazel, G. Darrel Jenerette, Nancy S. Jones, Larissa Larsen, Lela Prashad and William L. Stefano. 2008. "In the Shade of Affluence: The Inequitable Distribution of the Urban Heat Island." *Research in Social Problems and Public Policy* 15:173-202.

Roberts, J. Timmons, and Bradley C. Parks. 2007. Fueling Injustices: Emissions, Development Paths, and Responsibility. In *A climate of Injustice: Global Inequality, North-South Politics, and Climate Policy*. Pp.: 133-184. Cambridge: The MIT Press.

**October 30th and November 1st: Environmental Justice: Issues and Methods
The environmental justice's critique of risk assessment and environmental health.**

Bryant, Bunyan and Elaine Hockman. 2011. "Chapter Two: Environmental Justice: Overview." In *Michigan: A State of Environmental Justice?* Pp.: 13-27. New York: Habitat for Humanity.

Corburn, Jason. 2002. Environmental Justice, Local Knowledge, and Risk: the Discourse of a Community-Based Cumulative Exposure Assessment. *Environmental Management* 29(4): 451-466.

Sexton, Ken, and Stephen H. Linder. 2010. The Role of Cumulative Risk Assessment in Decisions about Environmental Justice. *International Journal of Environmental Research and Public Health* 7(11): 4037-4049.

November 6th and 8th: Natural Hazards Mitigation Planning.

Randolph, John. 2012. "Chapter One: Environmental Management for Sustainability. In *Environmental Land Use Planning and Management*. Pp: 3-25. Washington, DC: Island Press.

Additional readings on Canvas

November 13th and 15th: Participatory Approaches to Land Use Conflicts

November 20th Case Study Presentations.

November 22th: No class/No reading: Thanksgiving Recess

December 4th: Transportation and the Environment

Litman, Todd and David Burwell. 2006. Issues in Sustainable Transportation. *International Journal of Global Environmental Issues* 6(4): 331-347.

Calthorpe, Peter. 2011. "Chapter Six: Urban Network." In *Urbanism in the Age of Climate Change*. Pp. 78-90. Washington: Island Press.

Renne, John L. 2009. From Transit-Adjacent to Transit-Oriented Development. *Local Environment* 14(1): 1-15.

Levine, Jonathan, Aseem Inam, and Gwo-Wei Torng. 2005. A Choice-Based Rationale for Land Use and Transportation Alternatives Evidence from Boston and Atlanta. *Journal of Planning Education and Research* 24(3): 317-330.

Jun, Myung-Jin. 2008. Are Portland's Smart Growth Policies Related to Reduced Automobile Dependence? *Journal of Planning Education and Research* 28(1): 100-107.

December 11th: Review and Last Day of Classes

December 17th: Final Paper Due