

Syllabus — UPP 554 — Environmental Planning

University of Illinois at Chicago

Spring 2011

2 Stevenson Hall 303

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This class is a survey of important environmental laws and how they affect local and regional planning (e.g., wetland regulation, air quality conformity) as well as what can be done when there are no compelling environmental laws (e.g., climate change, arguably water supply). It will be taught in a lecture and discussion format. I will try to particularize the issues to the Chicago region or to the Midwest as much as possible so that you have a feel for the policy landscape here.

Assignments and grading

You will have four short assignments (3 – 4 single spaced pages each), which will be a mixture of factual quizzes on the lecture material or readings and an analysis of problems in environmental policy and local planning. These assignments will be due one week after they are assigned. I will answer any questions about the assignments through the discussion boards on Blackboard; please use this function rather than emailing me with questions. A longer paper (8 – 10 single spaced pages) will be due toward the end of the semester. This term paper is meant to give you an opportunity to explore a significant issue in environmental planning or policy in a fair amount of detail. A paragraph describing the topic of the paper will be due in the middle of the semester. Please submit your work in MS Word or another word processor file using the digital dropbox in Blackboard. Finally, class participation is an important part of your grade. By “participation,” I mean being present in class, obviously, but also asking questions, engaging in discussion, etc.

	Weight	Week due
Class participation	5%	Ongoing
Assignment 1	15%	5
Topic for term paper	5%	7
Assignment 2	15%	9
Assignment 3	15%	13
Term paper	30%	15
Assignment 4	15%	Finals week

Office hours

I can be available for students at CUPPA Hall or wherever is convenient in the hour or so before class. Please make an appointment with me beforehand.

Readings

You will need to purchase Salzman and Thompson, *Environmental Law and Policy* (2003) and John Randolph, *Environmental Land Use Planning and Management* (2004). These books will be available in the UIC Bookstore, but you can also purchase them online. The other readings will either be available on Blackboard or are hyperlinked in the syllabus. I expect you to digest the required readings before class. The supplementary readings are to provide more detailed information or local planning and policy examples. You do not need to finish the supplementary readings before class, but you may need to delve into them to complete the short assignments.

Class schedule

Week 1 – Jan 13

Students are expected to come to the first class having read the assigned material.

- Overview of class and introduction to environmental planning
- Readings:
 - Salzman and Thompson, *Environmental Law and Policy* (2003). Chapter 1 & 2.
 - Randolph, *Environmental Land Use Planning and Management* (2004). Chapter 2.
 - Daniels, Thomas L. A Trail Across Time: American Environmental Planning from City Beautiful to Sustainability, *Journal of the American Planning Association*, (2009) 75: 2, 178 – 192

Week 2 – Jan 20

- Introduction to environmental regulation
- Readings:
 - Salzman and Thompson, *Environmental Law and Policy* (2003). Chapter 3.
 - Field and Field, *Environmental Economics* (2002). Chapter 5.
- Supplementary readings:
 - Coase (1960), *The Problem of Social Cost*
 - Institute for Local Government (2006), *Regulatory Takings and Land Use Regulation: A Primer for Public Agency Staff*

Week 3 – Jan 27

- Air quality regulation

- Readings:
 - Salzman and Thompson, *Environmental Law and Policy* (2003), pp. 77 – 102
 - National Academy of Science. [Air Quality Management in the United States](#) (2004), Ch. 1& 3 – online book
- Supplementary readings:
 - USEPA, [Plain English Guide to Clean Air Act](#)
 - CMAP (2009), [Air Quality Snapshot Report](#)

Week 4 – Feb 3

- Improving air quality
- Readings:
 - Field and Field, *Environmental Economics* (2002), Chapter 15.
 - National Academy of Science. [Air Quality Management in the United States](#) (2004), Ch. 4 – online book
- Supplementary readings
 - FHWA, [Air Quality Planning for Transportation Officials](#)
 - Kosobud, Stokes, and Tallarico (2004), Does emissions trading lead to air pollution hot spots? Evidence from an urban ozone control programme. *Int. J. Environmental Technology and Management*, Vol. 4. Nos. 1/2.

Week 5 – Feb 10

- Overview of water supply planning
- Readings:
 - Dzurik, *Water Resources Planning* (2003), Ch. 5, 7 and pp. 25 – 35
 - Annin, *Great Lakes Water Wars*, Ch. 11 & 12
- Supplementary readings:
 - Gary Clark, *Illinois Groundwater Law: The Rule Of Reasonable Use*. A Report to the Illinois Groundwater Association (1985).
 - Foran, Beecher, and Wilson. *Survey of Eastern Water Law*. A Report to the Illinois Department of Natural Resources (1995).

Week 6 – Feb 17

- Nuts and bolts of water supply planning
- Readings:
 - Randolph, *Environmental Land Use Planning and Management* (2004). Chapter 15.
 - Brandes. *Thinking Beyond Pipes and Pumps - Top 10 Ways Communities Can Save Water and Money* (2006)
 - Alliance for Water Efficiency. *White Paper: Water Rates and Conservation*
- Supplementary readings:
 - CMAP, [Regional Water Supply Plan](#) (2010), especially chapter 4

Week 7 – Feb 24

- Surface water quality regulation
- Readings:
 - Salzman and Thompson, *Environmental Law and Policy* (2003). Chapter 5 and pp. 243 – 254
 - Randolph, *Environmental Land Use Planning and Management* (2004). Chapter 13 and pp. 538 – 547
- Supplementary readings:
 - BenDor and Doyle (2010), Planning for Ecosystem Service Markets, *Journal of the American Planning Association*, 76: 1, 59 – 72
 - D. L. Uchtman and Bernard Gehris. 1997. *Illinois Drainage Law*. University of Illinois Cooperative Extension Service, Circular 1355.

Week 8 – Mar 3

- Planning for water quality improvement
- Readings:
 - Randolph, *Environmental Land Use Planning and Management* (2004). Chapter 10 & 14, as well as pp. 352 – 362
- Supplementary readings:
 - Center for Watershed Protection, [An Integrated Framework to Restore Small Urban Watersheds](#) (2005)
 - Federal Interagency Stream Restoration Working Group, [Stream Corridor Restoration](#) (2001)

Week 9 – Mar 10

- Flooding and flood hazard reduction
- Readings:
 - Randolph, *Environmental Land Use Planning and Management* (2004), pp. 206 – 224
 - Scales (2007), *A Nation of Policyholders: Governmental and Market Failure in Flood Insurance*, pp. 1 – 20.
 - Congressional Budget Office, [The National Flood Insurance Program: Factors Affecting Actuarial Soundness](#) (2009), pp. 1 – 13 and pp. 21 – 27.
 - National Academy of Science, [Analytical Methods and Approaches for Water Resources Project Planning](#) (2004), Ch. 2
- Supplementary readings:
 - IDNR, [Illinois Quick Guide to Floodplain Management](#)
 - FEMA (2001), *Modernizing FEMA's Flood Hazard Mapping Program: Recommendations for Using Future Conditions Hydrology for the NFIP*

Week 10 – Mar 17

- Green infrastructure, natural area protection, and urban forestry
- Readings:
 - Randolph, *Environmental Land Use Planning and Management* (2004). Chapter 5, 6, and pp. 524 – 538.
- Supplementary readings:
 - Benedict and McMahon (nd), *Green Infrastructure: Smart Conservation for the 21st Century*
 - Chicago Wilderness *Biodiversity Recovery Plan*

Week 11 – Spring Break

Week 12 – Mar 31

- Habitat protection, landscape ecology, and the Endangered Species Act
- Readings:
 - Randolph, *Environmental Land Use Planning and Management* (2004). Chapter 17.
 - Salzman and Thompson, *Environmental Law and Policy* (2003), pp. 254 - 273
 - Beatley, *Habitat Conservation Planning*, Ch. 2, 3, 12, and 13

Week 13 – Apr 7

- Climate change
- Readings:
 - Salzman and Thompson, *Environmental Law and Policy* (2003). pp. 111 - 122
 - Ewing, et. al., *Growing Cooler: the Evidence on Urban Development and Climate Change* (2007), Ch. 2, 3, and 9
 - [Chicago Area Climate Change Quick Guide: Adapting to the Physical Impacts of Climate Change](#)
- Supplementary readings:
 - Socolow and Pacala. 2004. Stabilization Wedges: Solving the Climate Problem for the Next 50 Years with Current Technologies. *Science* 305(5686): 968-972.
 - Romm, [An introduction to global warming impacts: Hell and High Water](#), Climate Progress
 - [Chicago Climate Action Plan](#)

Week 14 – Apr 14

- Energy planning
- Readings:
 - Steinhurst, *The Electric Industry at a Glance*. National Regulatory Research Institute (2008).

- Center for Neighborhood Technology. *Chicago's Guide to Completing an Energy Efficiency & Conservation Strategy* (2009), pp. 1 – 20.
- Supplementary readings:
 - Philipson and Willis, *Understanding Electric Utilities and De-regulation*, 2nd Ed. (2006), pp. 160 - 230

Week 15 – Apr 21

- National Environmental Policy Act and impact analysis
- Readings:
 - Salzman and Thompson, *Environmental Law and Policy* (2003). Chapter 10.
 - Randolph, *Environmental Land Use Planning and Management* (2004). Chapter 18.
- Supplementary readings:
 - Council on Environmental Quality, *Citizen's Guide to NEPA*

Week 16 – Apr 28

- Land contamination, remediation, and brownfields
- Readings:
 - Salzman and Thompson, *Environmental Law and Policy* (2003), pp. 197 – 211.
 - USEPA. [Anatomy of Brownfields Redevelopment](#) (2006).
 - [Unlocking Brownfields](#). National Association of Local Government Environmental Professionals and Northeast Midwest Institute, pp. 113 - 142
 - U.S. Commission on Civil Rights. *Not in My Backyard: Executive Order 12,898 and Title VI as Tools for Achieving Environmental Justice* (2003), pp. 1 – 37.