

ENVIRONMENTAL PROCESSES AND PROGRAMS

23-PLAN-606, **Fall 2009** ARONOFF 4428
Tuesday and Thursday; 9:30-10:50 AM
School of Planning, DAAP, University of Cincinnati

Instructor: Jay Mittal, PhD Candidate
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About the Course:

This course is designed as an introductory course on the environmental issues of concern to urban planning and urban management. It is open to anyone interested in learning more about the current environmental issues related to cities and regions. This course can be taken as a stand-alone course or as an introduction to the three-course sequence on environmental planning in the School of Planning. This is a required course for undergraduate urban planning students and it is also a required course for master's students in urban planning who will specialize in environmental planning.

Required Books:

1. Randolph, John. *Environmental Land use Planning and Management*. Washington, DC: Island Press.
2. Perlman, Dan and Jeffrey Milder. 2005. *Practical Ecology for Planners, Developers, and Citizens*. Washington, DC: Island Press.
This book is considered by the APA to be the best book on ecology and environmental issues of land management. Good reference book to keep.
3. Michael Hough. 2004. *Cities and Natural Process: A Basis for Sustainability*. New York: Routledge.

Other Important Reading Material

4. I will also post reading material for the debate and presentation that covers issues both nationally and internationally.

Required reading material should be available at the UC bookstore or Dubois bookstore. All of these materials are also on reserve in DAAP library under my name and the class number.

Some References and Papers that we will use:

<http://www.gdrc.org/about/publications/index.html>
<http://www.rec.org/REC/Programs/Sustainablecities/>
<http://www.nature.org/initiatives/climatechange/calculator/>
<http://www.nyc.gov/html/planyc2030/html/home/home.shtml>

There will be six types of activities that you will be graded on throughout the quarter:

First, there will be three memos - one for each book we cover. Please explain the key learning from the chapter covered. Your memo should highlight key lessons learnt and should not be longer than 2-3 pages (Each memo is 15 points – Total 45).

Second, everyone will prepare a PowerPoint presentation of Maximum 10 slides from the assigned readings and present them in the class. (10 points on the contents and 5 points on the presentation - Total 15 Points) Expect extra credits on high quality extra research. Discussions are encouraged in the presentations.

Third, depending on the class size, groups will be made and debate will be conducted on assigned readings. (10 points for the participation in the debate and 5 points for submitting your arguments on a single sheet – This bulleted memo will also help you in debating your topic – Total 15 points)

Fourth, Internet and library research on any one Environmental program at City, Region and International Level. (You are free to identify programs, agencies and program outcomes. Please prepare a brief memo of maximum 2 pages on these programs along with the Internet links - Total 10 points). Expect extra credits on high quality extra research.

You are free to choose programs on any of the issues:

- Land /Conservation/Brownfield's
- Water Supply and Water Resources
- Air Quality & Pollution
- Urban Sanitation and Waste management
- Natural Resource Management
- Poor, Slums and Shelters
- Environmental Programs in Developing Countries
- Environmental Programs in Developed Countries
- Any Other

Fifth, there will be a surprise quiz of 5 points. I will highlight topics that are important in the class. (So, please do not miss classes).

Sixth, Class Participation – 10% of grades. More than two missed classes without contacting the instructor will lower your grades on class participation.

Note: Please remember to mention sources in all the assignments. Late assignments will be severely penalized and are strongly discouraged. They will only be accepted with permission. Do not assume I will accept late submissions. Computer problems, car problems, misunderstandings, etc. are not acceptable excuses.

Also: I do not accept electronic versions of submissions – everything must be printed by you and given to me in hard copy by the due date and time at the latest. Always use page numbers and staple your papers together. Do not use plastic covers or other additions to your submission – I just want a clean, neat, legible version of all submissions. Also, all submissions will also be posted on blackboard.

Grading

3-Memos	- 45%
Presentation	- 15% (Material, Presentation Quality, Extra Research)
Debate and Paper	- 15%
Program Research	- 10%
Surprise Quiz	- 5%
Attendance and Participation	- 10%

Class Schedule

	Date	Class Topic and Readings	Due
	Thu, 09/24	Introduction	
Week 1	Tue, 09/29	Urban Ecology Hough, Chapter 1 (pp. 1-25) WATER: Hydrological Cycle, Water Sources, Water Quality Hough, Chapter 2 (pp. 26-85) Give Assignment on Web Research	
	Thu, 10/ 1	No Class	
Week 2	Tue, 10/ 6	FARMING/FOOD: Farmland, Local Food Hough, Chapter 5 (pp. 160-188) CLIMATE: Climate Change, Energy, Carbon Cycle Hough, Chapter 6 (pp. 189-218)	Program Research
	Thu, 10/ 8	Regional landscape Hough, Chapter 7 (pp.219-264)	
Week 3	Tue, 10/ 13	LAND/MANAGEMENT: Land and its Planning Randolph, Chapter 3 (pp.36-52)	Memo-1
	Thu, 10/ 15	Land Conservation for working landscapes Randolph, Chapter 5 (pp.75-104) Design with Nature: Sustainable & Smart Land use development Randolph, Chapter 6 (pp.106-139)	
Week 4	Tue, 10/ 20	Local Government Smart Growth Management Randolph, Chapter 7 (pp.141-168) Regional, State and Federal Management of Environmentally Sensitive Land Randolph, Chapter 8 (pp.169-199)	
	Thu, 10/ 22	Integration method of Environmental Land Analysis Randolph, Chapter 18 (pp.591-625)	
Week 5	Tue, 10/ 27	Debate (Sprawl vs. Compact)	Memo-2 + Debate
	Thu, 10/ 29	Presentation Environmental Politics (Looming Tragedy: Survivalist Growth Forever: The Promethean Response Leave it to the Experts: Administrative Rationalism)	
Week 6	Tue, 11/ 3	Environmental Issues - International	
	Thu, 11/ 5	Presentation Limits to Growth (5)	
Week 7	Tue, 11/10	Environmental Issues – International	
	Thu, 11/12	Presentation Environmental Assessment & International Programs (5)	
Week 8	Tue, 11/17	When Humans and Nature Collide Perlman & Milder, Chapter 3	
	Thu, 11/19	Presentation Eco Footprint (5)	
Week 9	Tue, 11/24	PRACTICAL ECOLOGY : Conservation Planning Perlman & Milder, Chapter 7. Ecologically based Planning and Design Techniques Perlman & Milder, Chapter 10	
	Thu, 11/26	Thanksgiving	
Week 10	Tue, 12/1	Chapter 11 Principles in Practice	
	Thu, 12/3	Presentation NY Plan (5)	Memo-3