

## UP 880: URBAN SUSTAINABILITY

Spring 2016

Mondays 1:30 to 4:00pm RM. 189

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229.6165 Room 257

Office Hours: By Appointment

### COURSE OBJECTIVES

1. Expand your knowledge about a variety of urban sustainable challenges and opportunities.
2. Explore alternative strategies for encouraging implementation of sustainable practices and regulations.
3. Increase your understanding of sustainable measurements for various types of projects, uses, and applications.

### DATE TOPIC & RECOMMENDED READING (resources available on D2L)

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1/25	<p>A. Course Introduction – Basis of Sustainability</p> <p>B. Smart Growth &amp; Urban sustainability foundations, models, &amp; theories</p> <ul style="list-style-type: none"><li>Eco-Municipalities</li><li>Smart Growth</li><li>Natural Step</li><li>APA Policy</li><li>Energy Efficiency Plans</li></ul> <p>C. Introduce Assignment 1 – Municipal Planning Models</p> <p><i>Resources:</i> “Toward a Sustainable Community,” UW-Extension 1996 JAPA “Urban Sustainability Reporting”</p>
2/1	<p>A. Adaptation and Resilience Planning</p> <p>B. Erick Schambarger – Exec. Director, City of Milwaukee Office of Environmental Sustainability</p> <p><i>Resources:</i> <a href="http://city.milwaukee.gov/sustainability">http://city.milwaukee.gov/sustainability</a> ReFRESH “Promising Practices in Adaptation &amp; Resilience,” Institute for Sustainable Communities “Chicago GUD”</p>

- 2/8
- A. Removing Market Barriers to Green Infrastructure
  - B. Process for Including Green Infrastructure
  - C. Introduce Assignment 2 – Rating & Measurement Systems
  - D. Karen Sands, MMSD -- Green Infrastructure
- Resources:*
- “Fresh Coast: Sustainable Water Reclamation Report,” MMSD online
  - “Growing with Green Infrastructure,” Karen Williamson, Heritage Conservancy
  - “Sustainable Design and Green Building Toolkit”
- 2/15 Assignment 1 Presentations
- 2/22 Assignment 1 Presentations
- 2/29
- A. LEED and LEED ND – sustainable buildings and neighborhoods
  - B. Net Zero Development\_Extreme Rating System – Is it possible?
  - C. Jan Van den Kieboom, Workshop Architects – LEED examples and lessons
- 3/7
- A. Urban Agriculture\_Gardens to Farms
  - B. Sustainable Design & Green Building Toolkit for Local Governments
  - C. Introduce Assignment 3 – Group Projects
- Resources:*
- “Sustainable Design & Green Building Toolkit,” June 2010, EPA
  - [www.epa.gov/smartgrowth/partnership/tools.html](http://www.epa.gov/smartgrowth/partnership/tools.html)
  - [www.greenplaybook.org/](http://www.greenplaybook.org/)
  - [www.usgbc.org](http://www.usgbc.org)
- 3/14 NO CLASS – SPRING BREAK
- 3/21 Assignment 2 Summary Presentations, turn in full assignment
- 3/28
- A. Kate Nelson, UWM Sustainability – Campus Sustainability Initiatives
  - B. Importance of Urban Open Space
  - C. Economic Development Side of Sustainability
- Resources:*
- “The Excellent City Park System, What Makes it Great and How to Get There,” The Trust for Public Land
  - “The Benefits of Parks,” The Trust for Public Land
  - “Economic Development and Smart Growth,” International Economic Development Council

- 4/4
- A. Protecting Water Resources \_Water Centric Cities
  - B. Water Quality Scorecard
  - C. Introduce Assignment 4: Final Project
  - D. In class review of Assignment 3
- Resources:*
- “Protecting Water Resources with Smart Growth,” EPA
  - “Water Quality Scorecard: Incorporating Green Infrastructure Practices at the Municipal, Neighborhood, and Site Scales,” October 2009, EPA
  - “Stormwater Guidelines for Green, Dense Redevelopment,” Community Design + Architecture
- 4/11      **Assignment 3**, group presentations to Clients
- 4/18
- A. Corey Zetts, Menomonee Valley Partners
  - B. Bringing it All Together – Resources and the Future of Urban Sustainability
- Resource:*
- “Smart Growth is Smart Business”
  - ”Menomonee Valley Plan 2.0”
- 4/25
- A. The Brewery Presentation & Site Tour – MEET at The Brewery
- Resource:*
- “The Brewery Sustainability Guide” [www.thebrewerymke.com](http://www.thebrewerymke.com)
- 5/2      Presentations: Case Study
- 5/9      Presentations: Case Study

## GRADING

Class Participation	5%
Project #1:	20%
Project #2:	25%
Project #3:	25%
Project #4:	25%

## RECOMMENDED TEXT AND READINGS

D2L links and web articles as provided.

### *ACADEMIC MISCONDUCT*

*The university has a responsibility to promote academic honesty and integrity and to develop procedures to deal effectively with instances of academic dishonesty. Students are responsible for the honest completion and representation of their work, for the appropriate citation of sources, and for respect of others' academic endeavors. Student academic misconduct procedures can be found at:*

*[http://www4.uwm.edu/acad\\_Aff/policy/academicmisconduct.cfm](http://www4.uwm.edu/acad_Aff/policy/academicmisconduct.cfm)*

*See Schedule of Classes for more University policies.*