

UP 880: URBAN SUSTAINABILITY

Fall 2023 Mondays 2:30 to 5:10pm RM. 343

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Office Hours: Before class or 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.

TECHNOLOGIES AND SOFTWARE

We will use the following programs, please download if you don't already have access:

- o **Canvas** – course materials
- o **OneDrive** – online file sharing folder to upload your assignments as noted in the syllabus.
- o **Zoom** – online as needed for class: Canvas Announcements

DATE TOPIC & RECOMMENDED READING

9/11	2 minute Free-Write “What is Sustainability?” Smart Growth & Urban sustainability foundations, models, & theories Eco-Municipalities Smart Growth APA Policy Energy Efficiency Plans Adaptation and Resilience Planning, City Initiatives Introduce Assignments 1 – Municipal Planning Models <i>Resources:</i> PAS Report Planning for Climate Mitigation and Adaptation Toward a Sustainable Community, Volume 2. UW-Extension Link
9/18	John Gardner, UWM Sustainability – Campus Sustainability Initiatives & Tour An inclusive approach – transit, site, building, operations, and curriculum.
Sunday 9/24	Upload Assignment to OneDrive by 5:00pm
9/25	Assignment 1 Municipal Plan Presentations

10/2 **Bre Plier, MMSD** – Green Infrastructure Principles and Initiatives
Density and Stormwater – solutions from parking to green roofs
Introduce Assignment 2 – UWM Sustainability Office, Evaluation of State Plans for Funding Opportunities

Resources:

Fresh Coast: MMSD [Link](#)

Sustainable Design and Green Building Toolkit, EPA

<https://archive.epa.gov/greenbuilding/web/html/>

10/9 **2 minute article presentations (Group A)**

Eco Districts and Sustainable Urbanism

Green & Healthy Schoolyards, Milwaukee Public School Transformations

Resources:

ecodistricts.org

Reflo Green Schoolyard Projects [Link](#)

10/16 **Menomonee Valley Presentation & Walking Tour, Corey Zetts**

"Menomonee Valley 2.0" [Link](#)

Sunday 10/22 Upload Assignment to OneDrive by 5:00pm

10/23 **Assignment 2 Plan Evaluation Presentations & Recommendations**

10/30 **2 minute article presentations (Group B)**

Sustainable Rating Systems

LEED and LEED ND – sustainable buildings and neighborhoods

DISCUSSION: Net Zero Development_Extreme Rating System – Is it possible?

Introduce Assignment 3 – Rating & Measurement Systems

Resources: usgbc.org and usgbc.org/guide/nd

11/6 **2 minute article presentations (Group C)**

FOOD Access & Equity for Sustainable Neighborhoods

Urban Agriculture – Gardens to Farms

Introduce Assignment 4: Case Study and Marketing

Sunday 11/12 Upload Assignment to OneDrive by 5:00pm

11/13 **Assignment 3: Rating System Presentations**

- 11/20 **2 minute article presentations (Group D)**
 Importance of Urban Open Space & Biophilic Design
 Equitable Health Connections and Benefits
DISCUSSION: Sharing Your Favorite Public Space
Resources:
 PAS Report Planning Biophilic Communities
 PAS Report Planning for Urban Heat and Resilience
 Trust for Public Land [Link](#)
- 11/27 **2 minute article presentations (Group E)**
 Alternative Transportation Systems
 Water Centric Cities
Resources:
 Energy.gov Sustainable Transportation and Fuels [Link](#)
 Milwaukee Water Centric City [Link](#)
 December 6th Innovative Cities Lecture Susan Handy “Shifting Gears”
- 12/4 Removing Market Barriers to Green Infrastructure
 Applying Sustainable Strategies to Development
Discussion: Bringing it All Together –Future of Urban Sustainability
Final Assignment Review

Sunday 12/10 Upload Assignment to OneDrive by 5:00pm

- 12/11 **Presentations: Case Study and Marketing Feature**

SUSTAINABILITY “In the News” 2 minute presentation

Find a current article, online or local news, that highlights a current climate or sustainable topic. Describe the topic, innovative aspect for impact, and your opinion on opportunities for change. Present to class on your assigned date. Submit article link.

No media required.

- A. Cohen, Waldbillig, Kissel
- B. Doiron, Sullivan, Heisel
- C. Enders, Smith, Melton
- D. Fehr, Schumacher, Grant
- E. Gagner, Orendorff, Jain

RECOMMENDED TEXT AND READINGS

Syllabus links and resources posted on Canvas.

COURSE LEARNING FORMAT AND INTERACTION

Each class period will include a lecture and some interactive group activities. The online weekly reading postings are available on Canvas or via links noted in the syllabus.

USE OF ARTIFICIAL INTELLIGENCE

In this class, you may use Artificial Intelligence (AI) for assignments with appropriate citations. Please be aware that despite the many uses of AI language models, it is important to recognize AI's limitations and use this technology both responsibly and ethically. AI-generated answers and quotes are known to be highly biased, inaccurate, incomplete, or generally unreliable. It is your responsibility to critically evaluate all responses generated with the use of AI. Furthermore, you must cite AI when it is used. Taking credit for any work that is not your own original work constitutes academic misconduct and is subject to disciplinary action as defined by UWS Chapter 14.

IMPORTANT UWM DATES

Last day to add, change to/from credit/no credit/audit status: Monday, September 18, 2023

Last day to drop without a "W": Monday, October 2, 2023

Last day to drop: Sunday, November 12, 2023

GRADING

Class participation, attendance, and article	15%
Project #1: Municipal Plan	20%
Project #2: State Plans Evaluation (groups)	20%
Project #3: Rating System	20%
Project #4: Case Study and Marketing (groups)	25%

Late projects are those not presented or posted at the assigned time. Late projects will be graded down half grade if turned in within two days of the due date (Friday noon following the due date), one full grade if they are turned in Monday at noon following the due date. Projects later than one week will be graded down two full grades.

Grading Definitions

- A** Excellent work. Expectations are exceeded both quantitatively and qualitatively. Outstanding achievements in content and execution and far exceeds given requirements. Student shows strong academic initiative and independent resourcefulness.
- B** Good work reflects higher than average achievement in both content and execution and further develops requirements. Students shows some initiative and independence.
- C** Satisfactory work. Requirements are met. Student exhibits minimal initiative and independence.
- D** Unsatisfactory work. Expectations have not been met.
- F** Failing work. Unacceptable performance and incomplete products. Does not fulfill requirements

UWM POLICY: ESTIMATE OF TIME INVESTMENT by the average student

On average, students should spend 48 hours per credit per semester on in-class activities and activities outside of the classroom (approx. 144 hours for a 3-credit course).

ATTENDANCE

Students are expected to attend all classes in-person unless otherwise notified of a mode change, and be prepared for class. Exceptions to this policy include excused absences for religious observances or documented health or safety emergencies. Other reasons for excused absences need to be discussed with the faculty prior to the absence. Attendance in another class or for work is not an excused absence.

UWM RESOURCES + POLICIES

<https://uwm.edu/deanofstudents/campus-cares/>

<https://uwm.edu/secu/syllabus-links/>

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: <https://uwm.edu/academicaffairs/facultystaff/policies/academic>

OTHER COURSE POLICIES

This course adheres to campus policies regarding students with disabilities, religious observances, active military service, incompletes, discriminatory conduct, complaints about the course, and grade appeals.

For details about these policies, see the following links.

<https://uwm.edu/arc/>

<https://uwm.edu/military-veterans/>

<https://uwm.edu/titleix/>

FROM THE PROVOST: Students in Need

Any student who faces challenges securing their food, housing, or technology, or is struggling with mental, physical, or emotional health, and believes this may affect their performance in the course is urged to contact the Dean of Students (dos@uwm.edu) for support. Furthermore, please notify the professor if you are comfortable doing so. This will enable them to provide any resources that they may have and can connect you to the Dean of Students as well.

See Schedule of Classes for more University policies.

<https://uwm.edu/secu/wp-content/uploads/sites/122/2016/12/Syllabus-Links.pdf>