UPADM-GP 217 – 001  
Sustainable Urban Development  
Spring 2024

Class meets on: Tuesdays, 6:20-8:50 PM  
Location: 60 Washington Sq S (Kimmel), Room 808

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Office Hours: By appointment

Course Description  
According to current estimates of the World’s population, in the first decade of the 21st Century the number of people living in urban areas exceeded the number of people living in rural areas for the first time and current global population growth projections indicate that most of the population expansion in the rest of the century will take place in urban areas. This course examines the social, economic and environmental dimensions of sustainable development in urban areas. Some of the major themes explored as part of this course include indicators of sustainability, urban demographic trends, climate change, smart growth, green buildings, air and water quality, sustainable energy and transportation, waste management and environmental justice. In addition, the course will cover cross-cutting themes, such as the role of information technology (IT) and social networks in promoting sustainable urban development.

Course Objectives  
By the end of the course students will:

1. Be familiar with the framework of sustainable development and the way it is applied to cities and urban areas.
2. Be familiar with indicators of sustainability, their application and limitations.
3. Be able to assess whether a city is making progress toward sustainable urban development goals and objectives.

Required Readings  
Two books are required for the course:

An additional set of required and suggested readings from academic journals, the Internet and various media sources will be listed on NYU Brightspace.

**Brightspace Course Site**
Course announcements, reading lists, and assignment descriptions will be available through the Brightspace course site. Updates to class readings may be made if relevant new material is published during the semester. In addition, students will submit all their assignments electronically via the Brightspace Course Site.

**Academic Integrity**
Academic integrity is a vital component of Wagner and NYU. Each student is required to sign and abide by Wagner’s Academic Code. Plagiarism of any form will not be tolerated. If you are unsure about what is expected of you, you should ask.

**Henry and Lucy Moses Center for Students with Disabilities at NYU**
Academic accommodations are available for students with disabilities. Please visit the Moses Center for Students with Disabilities (CSD) website at [www.nyu.edu/csd](http://www.nyu.edu/csd) and click on the Reasonable Accommodations and How to Register tab or call or e-mail CSD at (212-998-4980 or mosescsd@nyu.edu) for information. Students who are requesting academic accommodations are strongly advised to reach out to the Moses Center as early as possible in the semester for assistance.

**NYU’s Calendar Policy on Religious Holidays**
NYU’s Calendar Policy on Religious Holidays states that members of any religious group may, without penalty, absent themselves from classes when required in compliance with their religious obligations. Please notify me in advance of religious holidays that might coincide with assignments to schedule mutually acceptable alternatives.

**Class Policies**
Extensions for missed assignment deadlines will be granted only in case of emergencies and on a case-by-case basis.

**Assignments and Evaluation**
1. Two short written assignments (40%) – these assignments are designed to complement the assigned readings and help students learn how data, indicators and other materials can be used to assess progress in the area of sustainable urban development. The topics of the short assignments and their due dates are listed below. Assignment descriptions will be available two weeks before they are due in NYU Classes.

   - Climate change and sustainability indicators – February 27
   - Environmental justice – April 16
2. Final paper (40%) – As part of the final assignment students will conduct research on a topic related to the course. The assignment description will be available on NYU Brightspace and the assignment will be due on May 14.

3. Class attendance and class participation (20%) – students are expected to attend all classes and to be prepared to participate in discussions about the topics/readings covered in each lecture.

**Learning Assessment Table**

<table>
<thead>
<tr>
<th>Graded Assignment</th>
<th>Course Objective Covered</th>
</tr>
</thead>
<tbody>
<tr>
<td>Participation</td>
<td>All</td>
</tr>
<tr>
<td>Assignment 1</td>
<td>#1 and #2</td>
</tr>
<tr>
<td>Assignment 2</td>
<td>#1 and #2</td>
</tr>
<tr>
<td>Final Assignment</td>
<td>All</td>
</tr>
</tbody>
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**Grading Scale and Rubric**

Students will receive grades according to the following scale:

- There is no A+
- A = 4.0 points
- A- = 3.7 points
- B+ = 3.3 points
- B = 3.0 points
- B- = 2.7 points
- C+ = 2.3 points
- C = 2.0 points
- C- = 1.7 points
- There are no D+/D/D-
- F (fail) = 0.0 points

**Overview of the Semester**

Outline of topics covered each week.

1. What is sustainable urban development?
   January 23. Introduction to the course and overview of the syllabus. Introduction to the concept of sustainable development and how it applies to urban areas.

2. Trends in urban population
3. Cities and global climate change
February 6 and 13. Discussion about global climate change and its impact on cities. Topics explored will include sea level rise, extreme weather events and changes in temperature.

4. Measuring sustainability
February 20 and 27. How do we measure sustainability? Discussion of indicators of sustainability and how they can be applied to cities and urban areas.

5. Urban sprawl and smart growth
March 5. Discussion about urban sprawl and smart growth. Definitions, trends and projections. Factors affecting and driving urban sprawl.

6. Sustainable transportation
March 12. Discussion of sustainable transportation systems and vehicles. Trends in transportation use and modes of transportation. Can developing countries learn from developed country experiences? Discussion of innovative case studies in developing countries such as the bus rapid transit system of Curitiba, Brazil and the Cable Car of Medellín, Colombia. Air pollution and public health.


7. Sustainable energy

8. Environmental justice
April 2 and 9. Discussion about the social dimension of sustainability in cities. Environmental health risks and vulnerable populations and the relationship between environmental justice and sustainable urban development.

9. Sustainable use of materials and waste management
April 16. Trends in material use and waste production. Factors affecting waste production, re-use and recycling. Introduction to eco-efficiency.

10. Sustainable water use
April 23. Trends in water use, water treatment and water scarcity. Differences in access to water in urban areas in developed and developing countries. Differences in use of water treatment technologies around the world. Access to clean water and sanitation, water pollution and public health in urban areas.
11. Green buildings

12. New Sustainable Cities and Future Directions
April 30. New sustainable neighborhoods and cities built using sustainability principles.