Green Urban Design combines a lecture course with urban design group projects. Readings, lectures and discussions focus on sustainable urbanism: why and how to design living environments that are attractive and enjoyable, scaled to their context, and well programmed in their uses and activities, while reducing the resources and energy it takes to build and operate them. Lectures and readings address LEED for Neighborhood Development, the public realm, green buildings and landscapes, density and scale, the development process, transportation and land use, and responses to peak oil and climate change.

The course applies design principles to real sites, with the objective of creating a sense of place. Students are given a group project at the scale of an urban neighborhood. Design topics include streetscape elements, housing, office, retail, and community uses, circulation and parking; and how to assemble these elements into low-impact mixed-use developments. Students apply to their projects the LEED for Neighborhood Development criteria as one measure of sustainability.

Objectives
The course has both knowledge and skills objectives. Through this course, it is expected that you will:

- understand the principles of sustainable urbanism, and the public policies needed to support them;
- know the history and current achievements of different movements in green urbanism;
- understand the relationship between the design, programming, and development of urban space, and witness their interplay in the group project;
- master design skills, spatial manipulation, and visual communication through Illustrator and SketchUp;
- have a solid working knowledge of LEED for Neighborhood Development;
- produce an urban design project and report.

Requirements
As students, you are required to:

- keep current with the readings;
- post an observation about the readings and a comment on another student’s observation, every Wednesday by 4 pm, on the course’s Canvas site at Discussions;
- write one short individual paper;
- attend two field trips outside of class time;
- develop and present an urban design project in teams of three to four students;
- submit a draft and final planning report about the project.

Grading
Class participation: 10%. Posted observations: 25%. Paper: 25%. Urban design project and planning report: 40%.

Instructors
Christine Cousineau christine.cousineau@tufts.edu cell: 781-288-8148
Kaitlin Mills (TA) kaitlin.mills@tufts.edu cell: 267-446-1472

Office Hours
Office hours can be scheduled at Brown House, 72 Professors’ Row, or at the campus center.
**GREEN URBAN DESIGN – short SCHEDULE**

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
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<tbody>
<tr>
<td>Sept 5</td>
<td>Introduction: course overview</td>
</tr>
<tr>
<td></td>
<td>Brief history of American planning and urban design</td>
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<tr>
<td>Sept 12</td>
<td>Principles of Sustainable Urbanism</td>
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<td></td>
<td>LEED for Neighborhood Development</td>
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<tr>
<td>Sept 19</td>
<td>Group Project Sites</td>
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<td></td>
<td>Explanation of Issues maps</td>
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<tr>
<td></td>
<td>Group projects presented/assigned</td>
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<td></td>
<td>Issues map assigned</td>
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<tr>
<td>Sat, Sept 22</td>
<td>9 am – 3 pm Team visits of project sites</td>
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<tr>
<td>Sept 26</td>
<td>Site Planning and Development Process</td>
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<td>Program of Uses and Building Types</td>
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<td></td>
<td>Tutorial: Adobe Illustrator</td>
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<td>Oct 3</td>
<td>Student presentations of Issues Map</td>
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<td></td>
<td>Zoning – Euclidean, Form-based, Somerville</td>
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<tr>
<td>Oct 10</td>
<td>Public Realm, Civic Spaces and Density</td>
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<tr>
<td></td>
<td>Tutorial: SketchUp</td>
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<tr>
<td>Oct 17</td>
<td>Green Infrastructure, Urban Design, and LEED ND</td>
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<td>Guest lecturer: Michelle Lambert</td>
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<tr>
<td>Fri, Oct 19</td>
<td>4 - 5 pm Field trip to Artists for Humanity, South Boston</td>
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<tr>
<td>Oct 24</td>
<td>Mid-term group project presentations</td>
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<td></td>
<td>Draft presentations due</td>
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<tr>
<td>Oct 31</td>
<td>Neighborhood Planning and Commercial Development</td>
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<td></td>
<td>Group project work</td>
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<td>Nov 7</td>
<td>Transportation and Land Use</td>
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<td></td>
<td>Group project work</td>
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<tr>
<td>Nov 14</td>
<td>Universal Design and Fair Housing</td>
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<td></td>
<td>Guest lecturers: Bob Terrel and Emmanuel Andrade</td>
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<td></td>
<td>Group project work</td>
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<tr>
<td>Nov 21</td>
<td>No class (Thanksgiving)</td>
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<tr>
<td>Nov 28</td>
<td>Eco-Cities, Resilience, and Climate Change</td>
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<tr>
<td></td>
<td>Comments on draft reports given</td>
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<tr>
<td>Nov 28</td>
<td>Eco-Cities, Resilience, and Climate Change</td>
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<td></td>
<td>Group project work</td>
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<tr>
<td>Dec 5</td>
<td>Student presentations I</td>
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<tr>
<td>Thurs, Dec 6</td>
<td>Student presentations II</td>
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<tr>
<td>Fri, Dec 14</td>
<td>Final reports due (no class meeting)</td>
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<td>Final reports due</td>
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</tbody>
</table>
# UEP 264-01  Green Urban Design – Schedule and Readings

<table>
<thead>
<tr>
<th>Lectures</th>
<th>Assignments</th>
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<tbody>
<tr>
<td><strong>Sept 5</strong> Introduction: course overview</td>
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<tr>
<td>Brief history of American Planning and Urban Design, Parts I and II</td>
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<tr>
<td>Two powerpoints to read/view on Canvas</td>
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<tr>
<td><strong>Sept 12</strong> Principles of Sustainable Urbanism</td>
<td>Paper assigned</td>
</tr>
<tr>
<td>Ch 1  The American Lifestyle on the Wrong Course, pp. 19-37</td>
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<tr>
<td>Ch 2  Sustainable Urbanism: The Grand Unification, pp. 41-65</td>
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<tr>
<td>The Charter of the New Urbanism <a href="http://cnu.org/who-we-are/charter-new-urbanism">http://cnu.org/who-we-are/charter-new-urbanism</a></td>
<td></td>
</tr>
<tr>
<td>LEED for Neighborhood Development credits and points</td>
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<tr>
<td><a href="http://www.usgbc.org/credits/neighborhood-development-plan/v4">http://www.usgbc.org/credits/neighborhood-development-plan/v4</a></td>
<td></td>
</tr>
<tr>
<td>LEED ND Checklist (summary of all credits and points by category)</td>
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</tr>
<tr>
<td><a href="http://www.usgbc.org/resources/leed-v4-neighborhood-development-checklist">http://www.usgbc.org/resources/leed-v4-neighborhood-development-checklist</a></td>
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<td>Group projects presented/assigned</td>
</tr>
<tr>
<td>Issues Maps</td>
<td>Issues Map assigned</td>
</tr>
<tr>
<td>Sites in Somerville are presented; students identify their 1st and 2nd choices, and teams are formed.</td>
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</tr>
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<td><strong>Sat, Sept 22</strong> 9 am – 3 pm: Team visits of group project sites</td>
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</tr>
<tr>
<td>Ch 1  The Art of Site Planning, pp. 1-12</td>
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<tr>
<td>PPT on Development Process</td>
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<tr>
<td>PPT on Design and Program</td>
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</table>
**Oct 3**  
Student presentations of Issues Maps  

Second part – Zoning: Euclidean, Form-Based, Somerville  

PPT on Zoning  

<table>
<thead>
<tr>
<th>Oct 10</th>
<th>Public Realm, Civic Spaces, and Density</th>
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</table>

*Sustainable Urbanism.*  
Ch 5  Explaining Density, pp. 103-111  

Ch 2  Five Ds and a P, pp. 13-22  
Ch 3  Neighborhood Form, pp. 23-34  

Second part – SketchUp Tutorial in Digital Design Lab  

<table>
<thead>
<tr>
<th>Oct 17</th>
<th>Green Infrastructure, Urban Design and LEED ND</th>
</tr>
</thead>
</table>
Ch 1  The Importance of Nature and Wildness in Our Urban Lives, pp. 1-16  
Ch 4  Biophilic Urban Design and Planning, pp. 83-130 |

EPA. Green Infrastructure.  [http://water.epa.gov/infrastructure/greeninfrastructure/](http://water.epa.gov/infrastructure/greeninfrastructure/)  

PPT on Green Infrastructure  

Guest lecturer: Michelle Lambert, Lambert Associates.  
Green urban design practice and LEED ND projects  

<table>
<thead>
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<th>Fri, Oct 19</th>
<th>4 pm – 5 pm</th>
<th>Field trip to Artists for Humanity, South Boston</th>
</tr>
</thead>
</table>

| Oct 24 | Mid-term presentations of group projects | Draft presentations due |
Oct 31  Neighborhood Planning and Commercial Development

  Sustainable Urbanism:
  Chapter 7 Sustainable Neighborhoods, pp. 125-167 and pp. 179-181

  Ch 6  Shopping Center Built Form Types, pp. 57-80
  Ch 7  Urban Design and Planning, pp. 81-96

Second part – Group project work

Nov 7  Transportation Planning and Land Use Patterns

Julie Campoli. 2012. Made for Walking  
  Ch 1  Everything is Somewhere Else, pp. 3-12


Todd Litman et al. 2014. Pedestrian and Bicycle Planning; A Guide to Best Practices. VITP.

from New Urbanism and Beyond:
  Peter Calthorpe “The Urban Network”, pp. 67-69
  Robert Cervero “Transit-Oriented Development in America”, pp.124-129

Second part – group work project

Nov 14 Universal Design and Fair Housing  Draft reports due

Guest speakers: Bob Terrell, Director, Fair Housing Center of Greater Boston
Emmanuel Andrade, Regional Planner IV - Statewide Accessibility Initiative, DCAMM
(Massachusetts Division of Capital Assets Management and Maintenance)

Fair Housing Act.

Second part – Group project work

(Thanksgiving – no class on Wed Nov 22)

Nov 28 Eco-Cities, Resilience and Climate Change


  Ch 1  As We Build, So Shall We Live, pp. 5-23

Ch 3  Four Scenarios for the Future of Cities: Collapse, Ruralized, Divided or Resilient City, pp. 35-54

Ch 4  A Vision for Resilient Cities: The Built Environment, pp. 55-85


Ch 5  Low-Carbon Neighborhoods, pp. 133-142


Introduction: Beloved Communities, Benighted Times, pp. xv-xxxiv

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**Wed, Dec 5**  Student project presentations I

**Thu, Dec 6**  Student presentations II

**Fri, Dec 14**  Final reports due (no class meeting)  Final reports due
Bibliography


Gehl, Jan and Birgitte Svarre. 2013. How to Study Public Life.


Reference guides


Videos


Active in Action – New Principles for a Sustainable World. Dan Burden. Simon Fraser University, 2010
http://www.youtube.com/watch?v=2Aa9hu6raFg&list=PLA5674598EDEF05A8

New Urbanism – Jeff Speck 2010
http://www.youtube.com/watch?v=rdnNwQj3rl

Agricultural Urbanism – Andres Duany 2011
http://www.youtube.com/watch?v=4UPSi9NQyXI

Alex Steffen The Shareable Future of Cities 2011
http://www.wiley.com/WileyCDA/Section/id-819000.html

Pocket Neighborhoods: Creating Small-Scale Community in a Large-Scale World. 2011
https://www.youtube.com/watch?v=CccxxCkWECI&list=PLA5674598EDEF05A8

Designing The Future | Exploring Urban Design 2012
http://www.youtube.com/watch?v=6wy16zTDIeg

Urban Design with Jan Gehl 2012
http://www.youtube.com/watch?v=AfnVNm4q4s

New York Streets Not So Mean Anymore | TED Talk with Janette Sadik-Khan 2013
https://www.ted.com/talks/janette_sadik-khan_new_york_s_streets_not_so_mean_any_more?language=en

A New Vision for Rebuilding Detroit | TED Talk with Toni Griffin 2013
https://www.ted.com/talks/toni_griffin_a_new_vision_for_rebuilding_detroit

Age Wise: Where We Live | Aurora Pocket Neighborhood. 2015
https://www.youtube.com/watch?v=O0XRjWKn2R0

Ross Chapin. Pocket Neighborhoods 2015
https://www.youtube.com/watch?v=k749w3cHSPk

Andres Duany. New Urbanism 101. 2015
https://www.youtube.com/watch?v=waalgjQ52vM&list=PLA5674598EDEF05A8&index=35

https://www.youtube.com/watch?v=G0SFiK4AvlI&list=PLA5674598EDEF05A8&index=34

Columbus Neighborhoods: Pocket Parks. 2016
https://www.youtube.com/watch?v=RRZp_rB6ZA0

How co-housing can make us happier (and live longer). 2017
https://www.ted.com/talks/grace_kim_how_cohousing_can_make_us_happier_and_live_longer?language=en

This LA Musician Built $1,200 Tiny Houses for the Homeless. Then the City Seized Them. 2017
https://www.youtube.com/watch?v=n6h7fL22WCE

Tiny Home Rebel. 2017
https://www.youtube.com/watch?v=FhFKPZqFd3o

In Reno, the biggest little houses in the world? 2018
https://www.youtube.com/watch?v=4agO_deZoiU

Can tiny houses save Detroit? 2018
https://www.youtube.com/watch?v=qY4s5T6cLSw