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 SketchUp;
• have a solid working knowledge of LEED for Neighborhood Development;
• produce and present a professional 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 observations every Wednesday by 4 pm, on the course’s Trunk site at Forums;
• write one short individual papers;
• attend two field trips outside of class time, and
• complete and present an urban design project in teams of three to four students.

Grading
Class participation: 10%. Posted observations: 20%. Paper: 25%. Urban design project and planning report: 45%.

Instructor
Christine Cousineau  christine.cousineau@tufts.edu  cell: 781-288-8148
                             office: 617-627-5331

Office Hours
Office hours can be scheduled during lunch time and after 5 pm on Mondays, Tuesdays, Thursdays and Fridays at 72 Professors’ Row, or at the campus center. Other times and locations can be arranged as well.
<table>
<thead>
<tr>
<th>Date</th>
<th>Activity</th>
<th>Notes</th>
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</thead>
</table>
| Sept 7    | Introduction: course overview  
Brief history of American urban planning and design |                               |
| Sept 14   | Principles of Sustainable Design  
LEED for Neighborhood Development | Paper assigned                |
| Sept 21   | Group Project Sites – Brad Rawson  
Explanation of Issues maps | Group projects presented/assigned  
Issues map assigned |
| Sat, Sept 24 | 9 am – 3:30 pm  
Field trip: walking tour of project sites |                               |
| Sept 28   | Public Realm: Shared Streets, Civic Spaces  
Greening Elements: Buildings, Infrastructure and Cities | Paper due                     |
| Oct 5     | Student presentations of Issues Map  
Zoning – Euclidean, Form-based, Somerville | Issues Map due                |
| Oct 12    | Design Process and Program of Uses  
Tutorial: SketchUp I |                               |
| Oct 19    | Development Process, Building Types, Density and Scale  
Tutorial: SketchUp II |                               |
| Fri, Oct 21 | 4 pm – 5 pm  
Field trip to Artists for Humanity, South Boston |                               |
| Oct 26    | Mid-term group project presentations | Draft presentations due       |
| Nov 2     | Neighborhood Planning and Commercial Development  
Group project work |                               |
| Nov 9     | Universal Design and Fair Housing  
Group project work |                               |
| Nov 16    | Transportation and Land Use  
Group project work | Draft reports due             |
| Nov 23    | No classes (Thanksgiving) |                               |
| Nov 30    | Eco-Cities, Peak Oil, Climate Change  
Group project work | Comments on draft reports given |
| Dec 7     | Student presentations I |                               |
| Thurs, Dec 8 | Student presentations II |                               |
| Fri, Dec 16 | Final reports due (no class meeting) | Final reports due |
## UEP 294-04  **GREEN URBAN DESIGN – SCHEDULE AND READINGS**

<table>
<thead>
<tr>
<th>Lectures</th>
<th>Assignments</th>
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<tbody>
<tr>
<td>Sept 7  Introduction: course overview</td>
<td></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 Trunk</td>
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<tr>
<td>Sept 14 Principles of Sustainable Design</td>
<td>Paper assigned</td>
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<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>
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<tr>
<td>LEED ND Checklist (summary of all credits and points by category) <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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<tr>
<td>Sept 21 Group Project Sites</td>
<td>Group projects presented/assigned</td>
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<tr>
<td>Issues Maps</td>
<td>Issues Map assigned</td>
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<tr>
<td>Brad Rawson, Director, Transportation and Infrastructure Department, City of Somerville</td>
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<tr>
<td>Brad will present different sites in Somerville, you identify your 1st, 2nd and 3rd choices, and teams will be formed.</td>
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<tr>
<td>Sat, Sept 24</td>
<td>9 am – 2 pm: Walking tour of group project sites</td>
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<tr>
<td>Sept 28 Public Realm: Shared Streets, Civic Spaces</td>
<td>Paper due</td>
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</tbody>
</table>

from Michael Larice and Elizabeth MacDonald (eds). 2013. *The Urban Design Reader.* Routledge:

Second part – Greening Elements: Buildings, Infrastructure, Cities (PPT)

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/)

**Oct 5**  
Student presentations of Issues Maps  
Issues Maps due  
Second part – Zoning: Euclidean, Form-Based, Somerville

**Oct 12**  
Design Process and Program of Uses  
PPT on Design and Program  
from *The Urban Design Reader*:  

Ch 1  The Art of Site Planning, pp. 1-12  
Ch 5  Design, pp. 127-143

Second part – Tutorial: SketchUp I

**Oct 19**  
Development Process, Density and Scale  
PPT on Development Process  
*Sustainable Urbanism.*  
Chapter 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 – Tutorial: SketchUp II

**Fri, Oct 21**  
4 pm – 5 pm  
Field trip to Artists for Humanity, South Boston

**Oct 26**  
Mid-term presentations of group projects  
Draft presentations due
<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
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<tbody>
<tr>
<td>Nov 2</td>
<td>Neighborhood Planning and Commercial Development</td>
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<td></td>
<td><em>Sustainable Urbanism:</em> Chapter 7 Sustainable Neighborhoods, pp. 125-167 and pp. 179-181</td>
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<td>Ch 6  Shopping Center Built Form Types, pp. 57-80</td>
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<td></td>
<td>Ch 7  Urban Design and Planning, pp. 81-96</td>
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<td>Second part – Group project work</td>
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<td>Nov 9</td>
<td>Universal Design and Fair Housing</td>
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<td>Guest speakers: Bob Terrell, Director, Fair Housing Center of Greater Boston</td>
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<td></td>
<td>Emmanuel Andrade, Regional Planner IV - Statewide Accessibility Initiative, DCAMM</td>
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<td>(Massachusetts Division of Capital Asset Management and Maintenance)</td>
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<td>Fair Housing Act.</td>
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<td></td>
<td>Second part – Group project work</td>
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<tr>
<td>Nov 18</td>
<td>Transportation Planning and Land Use Patterns</td>
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<td>Draft reports due</td>
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<td></td>
<td>Julie Campoli. 2012. <em>Made for Walking</em></td>
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<tr>
<td></td>
<td>Ch 1  Everything is Somewhere Else, pp. 3-12</td>
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<td></td>
<td>from <em>New Urbanism and Beyond:</em></td>
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<td>Peter Calthorpe “The Urban Network”, pp. 67-69</td>
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<td></td>
<td>Robert Cervero “Transit-Oriented Development in America”, pp.124-129</td>
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<tr>
<td></td>
<td>Second part – group work project</td>
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<td></td>
<td><em>(Thanksgiving – no class on Wed Nov 23)</em></td>
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<tr>
<td>Nov 30</td>
<td>Eco-Cities, Resilience, Peak Oil and Climate Change</td>
</tr>
<tr>
<td></td>
<td>Comments on draft reports given</td>
</tr>
</tbody>
</table>
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

Wed, Dec 7  Student project presentations I

Thu, Dec 8 Student presentations II

Fri, Dec 16 Final reports due (no class meeting) Final reports due
Bibliography


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


Reference guides


Videos

http://www.youtube.com/watch?v=AUeuQT6t7kg

Jane Jacobs: Neighborhoods in Action. The Active Living Network 2009
http://www.youtube.com/watch?v=Z99FHvVt1G4

Can One Woman (Still) Make a Difference? Jane Jacobs and NYC. Municipal Art Society 2007
http://www.youtube.com/watch?v=CsMSr78Lgx0

New Urbanism. Segment from CBS Sunday Morning May 20 2007
http://www.youtube.com/watch?v=LRrl7LwNUtw

Built to Last 2007
http://www.youtube.com/watch?v=VGJt_YXIoII

A dissenting view:
New Urbanist Agenda is destroying Scottsdale
http://www.youtube.com/watch?v=Ekn_2Kbw4Jw

NuHerbAndIzm. Andres Duany Lecture Series 2006 Parts 1 through 9
Part 1: http://www.youtube.com/watch?v=rwd4Lq0Xvgc
Part 2: http://www.youtube.com/watch?v=8UXog-Q023g
Part 3: http://www.youtube.com/watch?v=W1X5uVR5NxY
Part 4: http://www.youtube.com/watch?v=ual7cCluEK4
Part 5: http://www.youtube.com/watch?v=iBOvsVntf5c
Part 6: http://www.youtube.com/watch?v=acVGFDV4mEw
Part 7: http://www.youtube.com/watch?v=u0RINz9dMFM
Part 8: http://www.youtube.com/watch?v=XAPo-gHE1kA
Part 9: http://www.youtube.com/watch?v=-Y_LseRYCqs

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

Pocket Neighborhoods: Creating Small-Scale Community in a Large-Scale World. University of Minnesota College of Design 2009
http://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=AfnvNimhq4s

Agricultural Urbanism – Andres Duany 2011
http://www.youtube.com/watch?v=4UP5l9NOyXI
Alex Steffen The Shareable Future of Cities 2011
http://www.wiley.com/WileyCDA/Section/id-819000.html

New Urbanism – Jeff Speck 2010
http://www.youtube.com/watch?v=rdnNwQIj3rI

Interview of Matthew Carmona
http://www.youtube.com/watch?v=SNWEKn6aHhs
about his paper: