

Florida Atlantic University
College for Design and Social Inquiry

Course Title: Urban Design: Theories and Methods
Course Prefix and Number: URP 4851
Credits: 3
Term: Fall Semester, 2013
Class room: TBA
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Course description

Urban Design: Theories and Methods provides fundamental knowledge in terms of urban design theories, basic methods of analysis, and modes of graphic representations in Urban Design. Graphic communication and presentation skills necessary to be used in Urban Design projects will be emphasized.

Course Overview

This course is designed for urban design major students as well as other students who are interested in contemporary theories, modes of critique relating to the design of the urban environment, and basic research methods and analysis in urban design. The course explores economic, political, social, cultural, aesthetic and natural factors that have influenced urban physical form, typologies, and city development. It also encompasses diverse western and non-western attitudes towards the way in which the world is viewed and experienced, from the macro-scale of urban planning and design, to the micro-scale of the human body, social relations and self-organization.

Educational Objectives

- To understand the basic theoretical and methodological scope of research in urban design within dynamic urban development process.
- To understand and acquire the urban design vocabulary, typologies, and models present in cities.
- To understand and recognize the interaction among various forces for change influencing the shaping and reshaping of the built environment in a broader urban context.
- To develop basic observation, analytical, and critical thinking skills across multiple scales utilized for design process in urban design projects.
 - To develop basic research skills in urban design analysis and urban design field work.
 - To develop image-based research skills, including graphic representation.
 - To develop communication skills including graphic communication, writing, and oral presentation.

PAB Requirements

Even though the program is currently not accredited; however, the PAB requirements are very useful. Based on curriculum components matrix: knowledge, skills and values of the Planning Accreditation

Board (PAB) requirements, Urban design : Theories and Methods at SURP, FAU, addresses these followings:

- Design Arts under Human Settlement;
- Methods and Tools under History and Contemporary Planning Practice; and
- Research Skills, Written, Oral and Graphic Communication Skills.

Assignments

There are three assignments in this course.

Assignment #1 Weekly assigned reading of selected articles. (15%)

Each week students will prepare a power point presentation of the assigned reading for class discussion. Groups (or individual depending on the number of enrollment) will be asked to present findings in a 20-minutes oral presentation to the class. Critical analysis by the class of the presentation content will follow. Reading lists will be posted in Bb prior the beginning of the class.

Assignment #2 Key thinkers in Urban Design: ideologies, concepts, and methods. (30%)

Students will conduct research on urban design thinkers (theorists and/or authors) to review their work in regard to underlying values, criteria, objectives and normative models of city design and urban form. The structure of the report and oral presentation will be given. The list of suggested urban design thinkers will be posted on Blackboard. Students can also select their own urban design thinkers with the instructor's approval. This assignment can be individual or teamwork depending on the number of enrollment. The result will be counted as midterm exam.

Format for assignments and all papers should be MSWord, double-space, 12pts, Times New Roman font. Use the Chicago Manual of Style for in-text citations and reference entries. This can be found at http://www.chicagomanualofstyle.org/tools_citationguide.

Assignment# 3. Urban Diary Portfolio: Urban design documentation and analysis. (40%)

This exercise will allow the student to develop graphic communication skills necessary for urban designers. The students will be exposed to a series of exercise regarding graphic representation of space and place by documenting a selected neighborhood or parts of a city and its physical context from regional scale to human scale. Each student will submit a portfolio of visual composition book ,11"x17" in size. More detailed information can be found in the assignment handout.

Require textbooks for this assignment:

Kasprisin, R. 2011, *Urban Design: The Composition of Complexity*, Routledge, New York.

Urban Design Association 2003, *The Urban Design Handbook: Techniques and Working Methods*, W.W. Norton&Company, New York.

Materials

Students should anticipate expenditures for course materials (printing of course readings), equipment, supplies, photo/digital reductions, and reproductions.

Prerequisites

None

Attendance

ON-TIME attendance is mandatory. Students appearing more than 20 minutes late will be considered absent from class without exception. Please note that attendance is not limited to showing up on time, it also includes staying until the end. Attendance and participation will be factored into final grades. Absence does not absolve the student from homework, assignments, or work progress due on the day of absence and the work due the following class. It is the students' sole responsibility to contact their classmates to get information on the material covered and assignments given. Absence more than THREE classes (80%) without serious reasons (medical or otherwise) given in writing in advance of the class will have one full grade deduction from the earned grade. Students, who absent for five classes and more without serious reasons (medical or otherwise) given in writing in advance of the class, will not be eligible to submit the final assignment. Students absent from a required presentation, assignment, or examination will receive, without exception, an F, (0 points), for that presentation, assignment, or examination.

Participation

Students are responsible for completing all assigned readings prior to class and are expected to participate in related discussions. Students are expected to participate vigorously in formal and informal discussions and reviews. Active participation will count towards the student's final grade.

Course Assignments and Grading Percentages

Assignment #1:	15%
Assignment #2:	30%
Assignment # 3:	40%
Active Participation:	15%
	100%

Grading

The basic grade, a "C", shall depend directly upon demonstration of the minimum standard of learning expected from this course. After the minimum criteria have been met, the final grade will be determined by evaluating the quality of generative research and exploration from commencement through completion of the course. Competency in the course shall be evaluated using 1) weekly oral presentation of assigned readings, 2) one written midterm report, 3) a final graphic communication portfolio and 4) participation.

Letter grades for projects and term papers are defined as follows:

An "A to A-" grade is awarded when the student knows and understands exceptionally well the material presented in the class and brings some other understanding, both academic and critical to the subject theme demonstrating the ability to investigate deeply into the argument.

A "B+ to B-" grade is awarded when the student demonstrates a good understanding of the material presented in class.

A "C+ to C" grade is awarded for average work, meeting all of the requirements and exhibiting a consistent effort in research, process and communication.

A "C-" grade is given to marginal work, meeting less than the minimum requirements while exhibiting inconsistency in research, process, and lacking in clarity.

An "F" grade represents failing work, meeting less than the minimum requirements.

Grading Scale in %

100- 95	A
94 – 90	A-
89 – 87	B+
86 – 84	B
83 – 80	B-
79 – 77	C+
76 – 74	C
73 – 70	C-
69 – 0	F

All exercises must be handed in at the due dates. Work submitted late will have one full grade level deducted from the earned grade – that is, if your work earns a B, you will receive a grade of C. In order to be considered for a passing grade (C-) in a course a student must complete and submit **all** assignments.

Professional and Ethical Conduct

The College for Design and Social Inquiry expects students to communicate their ideas effectively and professionally. This includes legible text with proper spelling, punctuation, and grammar, as well as reference citations that meet the standards of your discipline for research and scholarly writing. Once documented in writing or all forms of graphic representations including drawings, maps, images, photographs, those pieces are the intellectual property of the author. When presenting anything that is not your own, citation of the original source is needed. To do otherwise is plagiarism, which constitutes cheating.

Using the ideas, moving images, writings, or any form of graphic representations including drawings, maps, images, photographs of other and attempting to pass them off as yours is plagiarism. Examples of plagiarism include, (but are not limited to): lifting material verbatim (or with minimal changes) directly from someone else’s work without citing the original author, as well as submitting work prepared by someone else as your own.

Plagiarism is a very serious offense, as is submitting a product which was not originally prepared for this course, or one which is used to fulfill the requirements of more than one course. In any such case, the student will receive no credit for the work, and/or a failing grade for the course. Moreover, depending on the severity of the offense and any previous violations, additional penalties may be assessed by the university, (which can include academic probation or expulsion from the university). A grade of “F” received for academic misconduct cannot be removed from your transcript through the university’s forgiveness policy. For more information, see:

http://wise.fau.edu/regulations/chapter4/4.001_Code_of_Academic_Integrity.pdf.

Outside Employment

While the University is sensitive to the financial and professional needs of our students, outside employment is not considered an extenuating circumstance in cases of poor performance, excessive absences or failure to submit assigned work on schedule.

Student Work

The School of Urban and Regional Planning reserves the right to retain any and all student work for the purpose of record, exhibition, and instruction. All students are encouraged to reproduce all work for their own records prior to submission of originals to the instructor. In the event of publication the author or the work will be recognized and receive full attribution.

General

Information concerning academic regulations, student rights and responsibilities may be found in the current Florida Atlantic University Catalog and Student Handbook.

The College for Design and Social Inquiry prohibits audio or video recording of instructional activities in classrooms, laboratories, and studios without the expressed written consent of the instructor. This does not apply to students receiving services from the Office with Student Disabilities. When the instructor's consent is given, the materials are for personal use only and are not for distribution or sale in any fashion.

Cell phones & Laptops

Personal communication devices (pagers and cell phones) MUST be disabled or set to "vibrate only" during class sessions. Laptops will be used solely for class activities.

Special Needs

Students who require special accommodations due to a disability to properly execute coursework are encouraged to register with the Office for Students with Disabilities (OSD). More information, including office locations and contact information, is available at the OSD website: <http://www.osd.fau.edu/>

Any student with disabilities or other special needs, who needs special accommodations in this course, is invited to share these concerns or requests with the instructor as soon as possible. All work in this course must be completed in a manner consistent with the university policy.

Blackboard & FAU Email

A course website is available at FAU Blackboard (<https://blackboard.fau.edu/>). All students who are officially registered for the course are automatically enrolled in the Blackboard class website. All students are expected to use this resource on a regular basis for course materials, announcements, etc. All course updates will be added on Blackboard, which can be accessed from anywhere with an internet connection. Instructor will be tracking student use of the Blackboard class website.

The instructor will use students' FAU email address for communication. This is very important. Students are suggested to check FAU email daily and are responsible to read and respond to any email requests from the instructor in a timely manner.

Note on teamwork: For fieldwork the students will be required to work in team. There may be some students put more effort than others. The students will have the option of evaluate their team members. The team evaluation document is posted in Bb. The results will play a part in determining the final grades at the end of the semester.

Selected References (categorized by themes)

Introduction and fundamental knowledge

- Alexander, C. et al., 1977, *Pattern Language: Towns, Buildings, Construction*, Oxford University Press, New York.
- Alexander, C. 1987, *A New Theory of Urban Design*, Oxford University Press, New York.
- Appleyard, D. 1981 *Livable Streets*. University of California Press, Berkeley.
- Bacon, E. 1976, *Design of Cities*. Penguin Books, New York.
- Banerjee, T. & Tridib Banerjee and Anastasia Loukaitou-Sideris 2011, *Companion to Urban Design*, Routledge, New York
- Barnett, J. 2011, *City Design*, Routledge, New York
- Bosselmann, P. 2008, *Urban transformation: understanding city design and form*. Island Press, Washington, DC.
- Boyer, C. M. 1994, *The City of Collective Memory*. MIT Press, Cambridge.
- Broadbent, G. 1995, *Emerging Concepts in Urban Space Design*, Taylor & Francis, London.
- Carmona, M., Health, T., Oc, T. and Tiesdell, S. 2003, *Public Places - Urban Spaces: The Dimensions of Urban Design*, Architectural Press, Oxford.
- Carmona, M. and Tiesdell, S. (eds) 2007, *Urban design reader*, Architectural Press, Boston.
- Carlthorpe, P. and Fulton, W. 2001, *The Regional City*, Island Press, Washington DC.
- Cooper Marcus, C. & Francis, C. (eds) 1998 *People Places: Design Guidelines for Urban Open Space*, John Wiley & Sons, New York.
- Cuthbert, A. R. 2003, *Designing Cities: Method in urban design*, Wiley-Blackwell, New York.
- Cuthbert, A. R. 2008, *The Form of Cities: Political Economy and Urban Design*, Routledge, New York.
- Cuthbert, A. R. 2011, *Understanding Cities: Method in urban design*, Routledge, New York.
- Dovey, K. 1999, *Framing Places*. Routledge, New York.
- Dovey, K. 2010, *Becoming Places* Routledge, New York.
- Ellin, N. 1999, *Postmodern Urbanism*, Routledge, New York.
- Ellin, N. 2007, *Integral Urbanism*, Routledge, New York.
- Frank, K. & Stevens, Q. 2006, *Loose Space: Possibility and Diversity in Urban Life*, Routledge, New York.
- Fyfe, N. R. (ed) 1998, *Images of the street: planning, identity, and control in public space*, Routledge, London.
- Gehl, J. 1987, *Life between buildings : Using public space*, Van Nostrand Reinhold, New York .
- Gehl, J. and Gemzoe, L. 1996, *Public spaces, public life*, Danish Architectural Press and the Royal Danish Academy of Fine Arts, School of Architecture Publishers, Copenhagen.
- Gosling, D. 2002, *The Evolution of American Urban Design: A Chronological Anthology*, Academy Press, WA.
- Hall, P. 2002, *Cities of Tomorrow: An Intellectual History of Urban Planning and Design in Twentieth Century*, Wiley-Blackwell, New York.
- Jacobs, J. 1962, *The death and life of great American cities*, John Dickens and Corner Ltd., London.
- Kostof, S. 1993, *The City Shaped: Urban Patterns and Meanings Through History*, Thames & Hudson, New York.
- Kostof, S. 2005, *The City Assembled: The Elements of Urban Form Through History*, Thames & Hudson, New York.

Lang, J. 2005, *Urban Design: A typology of Procedures and Products*, Architectural Press, Boston.

Larice, M. and Macdonald, E. (eds) 2007, *The Urban Design Reader*, Routledge, New York.

Lefebvre, H. 1991, *The production of space*, Blackwell, Oxford, UK ; Cambridge, Mass., USA .

Lozano, E. 1990, *Community Design and the Culture of Cities*. Cambridge University Press, London.

Lynch, K. 1984, *Good city form*, MIT Press, Cambridge, Massachusetts.

McHarg, I. 1995, *Design with Nature*, Wiley, New York.

Madanipour, A. 1996, *Design of Urban Space*, John Wiley & Sons, West Sussex.

Marshall, S. 2009, *Cities Design & Evolution*, Routledge, London.

Moudon, A. V. (ed) 1991, *Public streets for public use*, Columbia University Press, New York.

Rowe, C. and Fred Koetter 1978, *Collage City*. MIT Press, Cambridge, Mass.

Shane, D. G. 2005, *Recombinant Urbanism: Conceptual Modeling in Architecture, Urban Design, and City Theory*, John Wiley & Sons, West Sussex.

Shane, D.G. 2011, *Urban Design Since 1945: A Global Perspective*, John Wiley & Sons, West Sussex.

Trancik, R. 1986, *Finding Lost Space: Theories of urban design*, Van Nostrand Reinhold, New York.

Waterman, T. & Wall, E. 2009, *Basic Landscape Architecture: Urban Design*, Ava Publishing, West Sussex.

Methods and techniques

American Planning Association, Steiner, F. R. and Butler, K. 2006, *Planning and Urban Design Standards (Ramsey/Sleeper Architectural Graphic Standard Series)*, Wiley, New York.

Bentley, I. et. al. 1985, *Responsive environment: a manual for designers*, Architectural Press, London.

Bosselmann, P. 1998, *Representation of Places: Reality and Realism in City Design*, University of California Press, Berkeley.

Bosselmann, P. 2008, *Urban Transformation: Understanding City Form and Design*, Island Press, Washington D.C.

Cohen, N. 1999, *Urban Conservation*, MIT Press, Cambridge.

Farrelly, L. 2011, *Drawing for Urban Design (Portfolio Skills: Architecture)*, Laurence King Publishers, London.

Jacobs, A. B. 1985, *Looking at cities*, Harvard University Press, Cambridge, MA.

Jacobs, A. B. 1993, *Great streets*, MIT Press, London, England; Cambridge, MA.

Krier, R. 2006, *Town Spaces: Contemporary Interpretations in Traditional Urbanism*, Birkhäuser Architecture, Basel, Switzerland.

Marshall, S. 2007, *Streets & Patterns*, Taylor & Francis, London.

Moughtin, C., Cuesta, R., Sarris, C. a. and Signoretta, P. 2003, *Urban Design: Method and Techniques*, Architectural Press, Oxford.

Urban Design Associations 2003, *The Urban Design Handbook: Techniques and Working Methods*, W.W. Norton & Company, New York.

Watson, D. 2003, *Time-Saver Standards for Urban Design*, McGraw-Hill, New York.

Zeisel, J. 2006, *Inquiry by Design*, W.W. Norton & Company, New York.

Websites

www.urbanform.org/ (the site has a vast series of the study of urban form around the world)

www.weburbandesign.com
 www.rudi.net
 www.urbandesigncompendium.co.uk
 www.cabe.org.uk

Tentative class schedule

	Class activities	Expected outcomes
Week 1	<p>Overview of the course objectives and expected outcomes.</p> <p>Discussion on two assignments and assessment criteria.</p> <p>Lecture: Introduction to Urban Design</p> <ul style="list-style-type: none"> - What is Urban Design? <ul style="list-style-type: none"> • Definition and debate Historical background of the field - Who design the cities? <ul style="list-style-type: none"> • Urban Design Process & Products • Urban Design today: the roles of urban designers in the increasingly globalized world. 	<p>1. Students will understand the course objectives, assessment criteria and expected outcomes.</p> <p>2. Students will understand the discipline of urban design and design of the built environment in the US as well as worldwide.</p> <p>3. Students will understand the roles and status of the present-day urban designers</p>
Week 2	<p>Morphological dimension</p> <ul style="list-style-type: none"> - Evolution of urban form, <ul style="list-style-type: none"> • Urban generations and urban impositions • Vernacular urban patterns - Urban space typologies, elements and spatial systems <ul style="list-style-type: none"> • Traditional, Modernist, and Post-modernist • Western & non-western • Planned vs Spontaneous • Network, web/blocks, solid/void, openness/enclosed, dynamic/static, part/whole • Kits of part & sets of rules - 20-minutes of oral presentation of the assigned reading. <p>Bernett, J 2011, <i>City Design: Modernist,</i></p>	<p>1. Students will understand the evolution of urban form.</p> <p>2. Student will understand the use of visual and graphic communication to represent the evolution of urban form, urban spaces and urban environment.</p>

	<p><i>Traditional, Green and System Perspectives</i>, Routledge, New York. Chapter 2 Traditional city design and the modern city, pp.56-108.</p>	
Week 3	<p>Functional dimension - Land use patterns - Human activities</p> <p>Temporal dimension - Linear & Cyclical - Urban Rhythms - Urban Dynamism</p> <p>- 20-minutes of oral presentation of an assigned reading. Carmona, M. et al 2003, <i>Public Places-Urban Spaces: The Dimensions of Urban Design</i>, Architectural Press, Oxford. Chapter 8 Functional Dimension, pp. 165-192.</p>	<p>1. Students will understand the content of functional and temporal dimensions of cities.</p> <p>2. Student will understand the use of visual and graphic communication to represent functional and temporal dimensions of urban environment.</p>
Week 4	<p>Economic and political dimension - Urban development process - Political economy in Urban Design - Project typologies</p> <p>- 20-minutes of oral presentation of the assigned reading. Lang, J. 2005, <i>Urban Design: A typology of Procedures and Products</i>, Architectural Press, Boston. Chapter 2, Urban design processes and procedures, pp.24-41.</p>	<p>1. Students will understand the content of economic and political dimensions of cities.</p> <p>2. Student will understand the use of visual and graphic communication to represent economic and political dimensions of cities.</p>
Week 5	<p>Ecological dimension - Ecological design - Integral urbanism - Landscape urbanism - Sustainable urban design</p> <p>- 20-minutes of oral presentation of the assigned reading. Spirn, A. W. 2011, Ecological Urbanism in Banerjee, T. and Loukaitou-Sideris, A. eds. <i>Companion to Urban Design</i>, Routledge, New York, pp. 600-610. Brenda, S.2011, Metropolitan Form and</p>	<p>1. Students will understand the content of the ecological dimensions of cities.</p> <p>2. Student will understand the use of visual and graphic communication to represent ecological network and character.</p>

	Landscape Urbanism, in Banerjee, T. and Loukaitou-Sideris, A. eds. <i>Companion to Urban Design</i> , Routledge, New York, pp. 611-619.	
Week 6	Midterm presentation : Study on Key thinkers in Urban Design: Ideologies, Concepts, and Methods Report submission	Development of Research skill Oral Presentation skill Graphic communication skill
Week 7	Social, cultural and aesthetic dimension - Neighborhood and community life - Public space and public life - Human behavior and the uses of space <ul style="list-style-type: none"> • Experiential aspects • Psychological aspects • Meaning and symbolic aspects - 20-minutes of oral presentation of the assigned reading. Cuthbert, A. R.2008, <i>The Form of Cities: Political Economy and Urban Design</i> , Routledge, New York. Chapter 8 Aesthetics, pp. 171-194.	1. Students will understand the content of social, cultural and aesthetic dimensions of cities. 2. Student will understand the use of visual and graphic communication to represent social, cultural and aesthetic dimensions
Week 8	Methods in Urban Design 1: Understanding scale Scale of observation Scale of analysis Scale of action Interlink between regional, city, community, neighborhood, buildings, and body scales. - 20-minutes of oral presentation of the assigned reading Carlthorpe, P. and Fulton, W. 2001, <i>The Regional City</i> , Island Press, Washington DC. Chapter3 Designing the Region, pp.43-50.	1. Student will understand graphic representation of urban systems and urban phenomena at various scale ranging from regional, city, community, neighborhood, and buildings to body scales. 2. Students will be able to map urban environment at various scale.
Week 9	Methods in Urban Design 2: Four dimensions of urban analysis - Form: physical settings, land use patterns	1. Students will understand basic methods of urban analysis in urban design.

	<p>-Activities: human behavior, movements, uses of space, urban function and land use</p> <p>- Meaning: perception, value and attitudes</p> <p>-Temporal: Linear & Cyclical</p> <p>- 20-minutes of oral presentation of the assigned reading.</p> <p>Trancik, R. 1986, <i>Finding Lost Space: Theories of urban design</i>, Van Nostrand Reinhold, New York.</p> <p>Chapter4, Three Theories of Urban Spatial Design, pp. 97-112.</p>	<p>2. Students will be able to represent urban design analysis through the use of graphic communication.</p>
Week 10	<p>Methods in Urban Design 3:</p> <p>Fieldwork methods</p> <p>Learning from the field</p> <p>Mapping techniques and graphic communication</p> <p>-the power of map</p> <p>-Basic element: dot, line, plane</p> <p>- 20-minutes of oral presentation of the assigned reading.</p> <p>Jacobs, A. B. 1993, <i>Great streets</i>, MIT Press, London, England; Cambridge, MA.</p>	<p>1. Students will understand basic methods of urban design fieldwork.</p> <p>2. Students will be able to document urban design context through the use of graphic communication.</p>
Week 11	<p>Methods in Urban design 4:</p> <p>Typo-morphological study</p> <p>Morphological mapping</p> <p>Morphological analysis</p> <p>- 20-minutes of oral presentation of the assigned reading.</p> <p>Urban Design Associations 2003, <i>The Urban Design Handbook: Techniques and Working Methods</i>, W.W. Norton & Company, New York.</p>	<p>Students will be able to prepare urban design documentation through the use of graphic communication.</p>
Week 12	<p>Constructing and/or preserving a sense of place</p> <p>Place identity</p> <p>Place-making</p> <p>Place & placelessness: character, images, and virtual reality</p>	<p>1. Students will understand urban conservation in urban design.</p> <p>2. Students will be able to use visual and graphic representation for urban preservation.</p>

	<p>Urban conservation Urban legibility</p> <p>- 20-minutes of oral presentation of the assigned reading. Cohen, N. 1999, <i>Urban Conservation</i>, MIT Press, Cambridge.</p>	
Week 13	<p>Emergent Urbanism</p> <ul style="list-style-type: none"> - Emergence vs evolution - Complexity and self-organizing - Actor-network theory - Self-adaptive system <p>- 20-minutes of oral presentation of the assigned reading. Marshall, S. 2009, <i>Cities Design & Evolution</i>, Routledge, London. Chapter 6 Emergence and Evolution, pp. 149-176.</p>	Students will understand up-coming issues in Architecture and Urban Design.
Week 14	<p>Looking forward</p> <ul style="list-style-type: none"> - Seeing the world outside the box - Interdisciplinary approach in Urban Design <p>- 20-minutes of oral presentation of the assigned reading. Madden, K. 2011, Placemaking in Urban Design in Banerjee, T. and Loukaitou-Sideris, A. eds. <i>Companion to Urban Design</i>, Routledge, New York., pp. 654-663.</p>	Students will understand interdisciplinary approaches in design of the built environment.
Week 15	<p>Wrap-up Urban Diary Portfolio submission Urban Design documentation and graphic analysis.</p>	Development of Urban Design Research skill in Visual representation and Graphic communication skill