A6849 Urban Design Studio I: THE 5 BOROUGH STUDIO
Columbia University GSAPP
MSAUD Summer 2016
Monday, Wednesday, Thursday: 2:00 PM – 6:00 PM

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Teaching Assistant: Carmelo Ignaccolo

ABSTRACT

This first semester will introduce you to an urban design process, where site and program are not a given, but are treated as principal variables of urban design thinking. Working in multiple scales and across different time frames will be an integral part of this process to design an intervention that follows a speculative argument for the future of the City.

New York City will be your laboratory for experimenting with this process that re-thinks, re-shapes and re-generates the city in the 21st century. Working in a post-industrial city requires the critical interrogation and re-definition of many layers of existing and past urban fabric and infrastructure to shape the city to the needs of its future inhabitants.
TRANSFORMATIVE URBAN SYSTEMS

Thinking about the city as a series of systems of hard and soft infrastructure and the people that live, work and benefit from these systems in New York City requires a multi-scalar approach to urban design in which we recognize global and regional forces on human-scale sites and spaces.

In this studio, we want to explore and experiment with tools, techniques and strategies to develop a design methodology, where research and spatial investigation inform an argument for a design proposal.

Some questions you will be confronted with during the semester:

- How do we provide visual evidence for our design decisions?
- How do we develop a productive way of working that incorporates the complex realities of multiple voices, scales and fields of expertise?
- What is the agency of the urban designer?
- How do we design the process by which change happens together with its outcome?
- Who are we designing for? Who are the actors in a given urban design project?
NEW YORK CITY AS A LABORATORY

New York City, the most populous and the most urban of America’s cities will serve as a laboratory for these investigations. As a post-industrial city it offers a multitude of areas for transforming the urban environment in order to support the city to face the challenges of the 21st century.

Water as an Urban Space
New York is a city surrounded by water with 520 miles of waterfront. Water constitutes both a threat and an opportunity in the 21st century: Climate change and its associated risks for rising sea levels and frequent storm surges threaten to submerge parts of the city; our industrial past has left many scars and pollutants along the coast and in the water. At the same time, water is a connective medium between the 5 boroughs with a renewed attention to transportation on the water and multiple uses at the waters edge.

Bird’s Eye View of New York and Brooklyn, 1892

Often referred to as the 6th borough, we will explore the water as an urban space within the city. We will use 5 waterfront neighborhoods, one in each of the 5 boroughs as our testing ground for new ideas for urban design and infrastructure as transformative agents.
STRUCTURE

Urban Design is teamwork. Practicing how to communicate in teams, how to negotiate different interests, challenges and strengths, both visually and verbally is an important aspect of urban design. For each of the distinct parts of this semester you will be asked to work in teams of different size and constellation. Similarly, the faculty will work as team. You will meet and discuss your progress with each faculty member throughout the semester.

Part I

Urban Material

Individual
1 Week
Introductory exercise to explore, interpret and represent a section of New York City’s “6th borough” in a model.
Urban Sites & Scenarios
Groups of 3 or 4
3 Weeks
Working in one of the five neighborhoods, you begin with constructing your site. In urban design, “site” is not a given. Designers must identify and investigate the complex, layered contexts, operating at multiple scales, within which urban places are embedded. Similarly, the construction of “program” is within the urban designer’s purview; opportunities exist to extend and expand the field for human action and interaction. Using scenarios, student teams will speculate with programmatic interventions that operate on several spatial and temporal scales.

Making Knowledge
The techniques of investigating a site, its physical and non-physical context, –its geographic, historical, or socioeconomic aspects, its boundaries and networks, its areas of influence and impact create knowledge about the site. They establish the horizon for a design project, a reference and means of communication between the different disciplines involved in the design process.
In this studio, we treat drawings, diagrams and models not as final representations of a proposal, but as material evidence for a process of “thinking through making”. You will be introduced to a variety of different techniques throughout the semester and we encourage you to test, refine, and sharpen your skills of representation as a means of thinking and communicating your ideas.
Part II
Urban Systems
Groups of 5 or 6 (One from each site)
3 Weeks
Working in large city-wide “think tanks” students will examine one of many infrastructural systems and visualize its extent, performance, and ownership. Students will then work across sites to understand and experiment with systemic linkages between sites and systems to identify potentials for innovation at the scale of the system as well as the scale of the neighborhood.

Thinking in Systems
Systems thinking in urban design requires attention to the interconnectedness of multiple scales, the connections between components of the system and the relationship of hard and soft components in the system. The design of the bus stop, and the bus map are inextricably linked to understanding user patterns, timetables or the larger systems of CO2 emissions, climate change and public health. What role does technology play in updating or replacing aging infrastructure? How do soft (seemingly non-physical) systems and hard systems interact? In this studio we are interested in an expanded understanding of public infrastructure to explore synergies across different systems within the city.

Part III
Urban Spaces
Groups of 3 or 4
3 Weeks
Students will develop spatial proposition for their original site of investigation. Building on the original site construction, the speculative scenarios as well as an understanding of city-wide systems, students will focus on implementation strategies that have the potential to transform the city at the neighborhood scale as well as the city-wide scale.

Designing Process
A core challenge in developing an urban design project is the concurrent development of a democratic process by which we imagine a project being implemented. Who are the actors with agency in the project? Who would advocate, pay for or benefit from it? What is the timeframe in which it is envisioned and who does what? In this studio we are interested in a creative process in which speculative answers to these questions inform the physical form of the urban design project.
READING URBAN DESIGN

Every Monday for the first hour of studio, we will discuss readings, exhibitions or short lectures pertinent to your design process. These sessions will split the studio into five small groups and are an opportunity to reflect on your studio work and develop your own attitude towards urban design. You are expected to participate in each discussion and prepare a postcard-size response to the week’s theme ahead of the discussion. You will find assigned readings on the studio website: www.msaudcolumbia.org/summer

Seminar 1: Defining Site
Mon, June 12
Corner, James, “The Agency of Mapping: Speculation, Critique and Invention,” in Mappings, Cosgrove, Dennis, ed. (Reaktion Books: 1999)

Seminar 2: Mobility
Mon, June 19
Kelly Shannon and Marcel Smets, "Shaping Mobility through Infrastructure" in The Landscape of Contemporary Infrastructure (nai Publishers, 2010)

Seminar 3: Urban Systems
Mon, June 26
For this seminar, we will read projects. Each student will select a case study to present to the seminar group. Case studies should investigate their assigned system in your home country/city and be presented on one 11x17 sheet.

Seminar 4: Resilience
Monday, July 3
Eric Klinenberg. “Adaptation: how can cities be climate-proofed?” in New Yorker, January 2013

Seminar 5: Affordable Housing
Mon, July 10

Seminar 6: Design Strategies
Monday, July 17

Seminar 7: Agency
Monday July 24
Kate Orff, “Engage” in Towards an Urban Ecology (Monacelli Press, 2016)

Seminar 8: Argument
Monday July 31
In this final seminar, you will prepare a brief description and one image of your final project and present it to your seminar group.
STUDIO LOGISTICS

Attendance
Attendance is expected for all studio events. The studio curriculum includes class sessions, lectures, seminars, site tours, pin-ups and reviews. Studio meets M/W/Th 2:00 – 6:00 p.m. You are expected to utilize this time to work with your team on your studio project. Attendance is mandatory for all reviews.
This studio is team-taught. Students will work with all six faculty members throughout the semester-long project, but may be affiliated with particular critics at different points in the process.

Grading
Studio work is done in groups, but all grading is based on each individual student’s design product, process and progress, and their contribution to the group effort. Assessment in these areas will be evaluated by how you demonstrate and communicate design thinking through drawings, models, and presentations, and your participation in group discussions, seminar sessions and desk crits. To PASS the course you must engage the studio agenda; consistently contribute to group work; articulate clear design goals; develop coherent design proposals; demonstrate verbal and graphic communication skills and a willingness to explore and test new modes of design research. HIGH PASS grades reflect a concerted effort to consistently exceed basic course requirements. Failure to meet basic course requirements will result in a LOW PASS or FAIL.

Any student considered at risk of receiving a “fail” grade will receive a formal notification by email. Receipt of final grades depends on submission of full project documentation. (See Archive below)

Office Hours
To schedule meetings regarding administrative issues, contact the studio coordinator: Kaja Kühl kk730@columbia.edu (+1 917 916 5478 for emergency only)
Faculty contact information:
Brian Baldor: bab2203@columbia.edu, Ben Brady: bb2783@columbia.edu
Pippa Brashear: pwb2110@columbia.edu, James Khamsi: jmk2238@columbia.edu
Thad Pawlowski: tpawlowski@columbia.edu
Teaching Assistant: Carmelo Ignaccolo i.carmelo@columbia.edu

Material
While much of the work will be digital (each student will have a computer), students are responsible to have legible print material of their design process ready for use in each studio session. Physical model making also plays a key role in the studio working process, and the studio will have working space to facilitate their production. Familiarize yourself with equipment and facilities available.

Citing Work and Ideas
In producing a professional body of research, you are required to acknowledge and cite sources for ALL material referenced in your graphic as well as textual work.
STUDIO ARCHIVE

You are responsible for archiving your work after each review. Please make sure to include the final product (PDF of boards, slideshow or movie, etc) as well as all original editable files included therein (for example the InDesign package). For every archive submission, please take time between review and due date to correct spelling mistakes or similar errors. Please make sure that no files are corrupt and that they are downsized to the extent possible without losing quality.

Please refer to the archiving section in each assignment for naming conventions and folder structure on the studio server.

Studio Archive Schedule
Archive of your work is due for each of the four parts on the following days. Please submit all archive work on the due date to the studio TAs on a CD or USB drive or place them in the appropriate folder on the studio server.

1. Urban Material Review June 5    Archive due June 9
2. Constructing Site Review June 23  Archive due June 29
4. Final Review Aug 03             Archive due Aug 11

You will not receive a final grade unless your complete semester work is archived.
## SCHEDULE

### WEEK 1  URBAN MATERIAL
- **Wed May 31** 2:30 PM  Introduction to Studio
- **Thu June 1** 9:45 PM  Introduction to NYC / boat tour
- **Sat:**  *Adobe/Rhino Workshop*

### WEEK 2  URBAN SITES
- **Mon June 5** 2:00 PM  Review: Urban Material
- **Wed June 7** 2:00 PM  Studio (Site visits)
- **Thu June 8** 2:00 PM  Studio (Site visits)

### WEEK 3  URBAN SITES
- **Mon June 12** 2:00 PM  Seminar 1: Defining Site
- **Wed June 14** 1:00 PM  Presentation NYCFerry
- **Thu June 15** 2:00 PM  Pin-up
  - *Fri/Sat:*  *Mapping Workshop*

### WEEK 4  URBAN SITES
- **Mon June 19** 2:00 PM  Seminar 2: Mobility
- **Wed June 21** 2:00 PM  Studio
- **Fri June 23** 2:00 PM  Review: Constructing Site

### WEEK 5  URBAN SYSTEMS
- **Mon June 26** 2:00 PM  Seminar 3: Urban Systems
- **Wed June 28** 2:00 PM  Studio
- **Thu June 29** 2:00 PM  Studio

### WEEK 6  URBAN SYSTEMS
- **Mon July 3** 2:00 PM  Seminar 4: Resilience
- **Wed June 5** 2:00 PM  Studio
- **Thu July 6** 2:00 PM  Studio
  - *Fri/Sat:*  *Grasshopper Workshop*
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BIBLIOGRAPHY
Following is a list of book recommendations collected from faculty in the urban design program. They are not required reading for studio, but what you would find on our bookshelves. They do provide helpful context for urban design and New York City.

Mapping and Site Construction
Burns, Carol J. and Andrea Kahn, eds. *Site Matters.* (New York: Routledge, 2005)
Mireilles, Isabel. Design for Information. (Rockport, 2013)

New York City
Jackson, Kenneth T. *The Encyclopedia of New York City.* (New Haven, Yale University Press, 1995)

Design of Cities
Gehl, Jan and Svarre, Birgitte: *How to Study Public Life,* Island Press, 2013
Mostafavi, Mohsen and Gareth Doherty, eds. *Ecological Urbanism.* Lars Müller Publishers,
Work A.C. 49 Cities (Inventory Press; 3rd Revised edition, 2016)
Manuel DeLanda A Thousand Years of Non-Linear History
Shaping the City, edited by R. El-Khoury and E. Robbins (2nd edition, 2013)
We Own the City, edited by F. Miazzo and T. Kee, (2014)

Urban Systems
Hauck, Thomas, Keller, Regine, Kleinekort, Volker, ed. *Infrastructural Urbanism: Addressing the In-between,* (DOM Publishers, 2011)
Reed, Chris and Lister, Nina-Marie: *Projective Ecologies,* Actar Publishers, 2014