

Rutgers, The State University of New Jersey  
Landscape Architecture 16:550:133

## Architectural Design

Fall 2019

Mondays 4:00 – 7:00pm

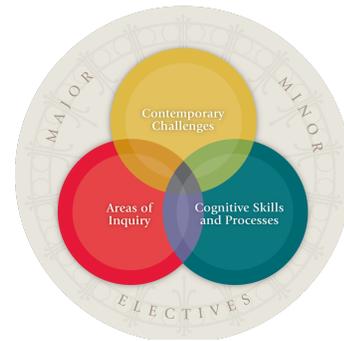
Blake Hall 244 (occasional lectures in 148)

### Instructor

Anita Bakshi

222 Blake Hall

ab1332@sebs.rutgers.edu



### Course Description

This introductory architectural design course includes studio and lecture components, and familiarizes students with core principles and practices of the architecture profession. Students explore space-making—the creative relationship between humans and their built environment. Lectures provide a broad overview of architectural history, building materials and technologies, sustainable and green building strategies, and important architects and their works. Students learn basic spatial production and analysis of the built environment. Forms of visual inquiry for the design process include abstraction, modes of representation (drawing conventions, model building), and investigation into tectonics, materiality, scale, and space, design exercises and a final design project. This course will explore foundational design principles through a series of short exercises, design projects, and workshops that employ critical and creative architectural design strategies. Class time will be used for Lecture and Studio.

Since this is organized as a studio course, in class exercises and work time are important elements of the course. For this reason, it is very difficult to make up work missed during class time. **Therefore, only one unexcused absence is allowed, and there will be a reduction in the overall course grade for each additional unexcused absence.**

### Field Trip

This year we will be taking a field trip to the Rutgers Makerspace on Livingston Campus

<http://makerspace.rutgers.edu/>

&

A walking tour of architecture in Princeton

<https://www.princeton.edu/news/2010/03/18/princeton-modern-offers-walking-tour-post-50s-architecture>

**Main Learning Goal:** Ahr - Engage critically in the process of creative expression

### Learning Objectives

- Learn how to interpret the built environment and understand the aesthetic, social, cultural, economic, and environmental considerations that influence building design and construction.
- Recognize and be able to discuss influential architects and their buildings, and describe seminal architectural movements.
- Engage in the design process and think critically about design decisions.

## Assignments and Grading

Students will receive grades and feedback on all assignments and exercises that are completed throughout the semester. The individual break down of the cumulative semester grade is as follows:

Blog		15%
Exercise #1	Experience Machine	5%
Exercise #2	Design Elements	5%
Exercise #3	Reading-Observation Essay	10%
Exercise #4	6x6x6 Cube	20%
Exercise #5	Green Cities Exercise	10%
Exercise #6	Inspiration Modelling from 'Making'	5%
Final	Designing with the Masters	30%

## Policies

Except for circumstances truly beyond the student's control, all projects and homework are due on the dates and at the times specified throughout the semester. No late homework will be accepted. Midterm and Final Projects that are incomplete on the due date should still be submitted on the date it is due to receive at least partial credit. Turning in no work for an assignment or a project will result in a grade of zero [0]. *Any final or midterm project submitted late will lose a letter grade for each day past due.* Working beyond a due date is both unrealistic in a professional setting and unfair to your classmates in this course. If you encounter any personal circumstances that inhibit your ability to fulfill the requirements of this course, you should immediately contact the instructor[s]. In addition, any student with a special need, circumstance, or disability, should make an appointment to see the instructor[s] during the first week of classes.

If a circumstance arises beyond your control, please notify the Instructor *prior* to the class meeting, and other arrangements will be made. **Documented** medical and family emergencies are, of course, excused. Attendance will be taken at the start of class. Late arrivals greater than 10 minutes will be marked as a full absence by the Instructor. Students on academic probation have NO ALLOWABLE ABSENCES. Content missed due to an excused absence will be made available however, an excused absence does not automatically prolong an assigned due date for any exercise or project.

## Required Materials

There will be a few materials that you will need to buy for the course. You will not need these items right away – and they are not required for the first day of class - but please make sure you have purchased them by Week 4.

- There is one suggested book for this course: *Archidoodle: The Architect's Activity Book*. This has sketching and designing exercises that might be helpful for you. I will make suggestions each week for sketching exercises that connect to the week's activities.

[https://www.amazon.com/Archidoodle-Architects-Activity-Steve-Bowkett/dp/1780673213/ref=sr\\_1\\_1?ie=UTF8&qid=1502211739&sr=8-1&keywords=archidoodle](https://www.amazon.com/Archidoodle-Architects-Activity-Steve-Bowkett/dp/1780673213/ref=sr_1_1?ie=UTF8&qid=1502211739&sr=8-1&keywords=archidoodle)

- 1 Sheet of Foam Core Board 24" x 36" (at 1/4" or 3/16" thickness). You will need a 12"x12" square piece for the Cube exercise, and the remainder can be used for a later project. You can organize with other classmates to share the board if you want.

[https://www.amazon.com/24x36-White-Foam-Core-Backing/dp/B00WY3MQG2/ref=sr\\_1\\_14?ie=UTF8&qid=1481740292&sr=8-14&keywords=foam+core+boards](https://www.amazon.com/24x36-White-Foam-Core-Backing/dp/B00WY3MQG2/ref=sr_1_14?ie=UTF8&qid=1481740292&sr=8-14&keywords=foam+core+boards)

- 1 Notebook for sketching. This can be the same one that you use for taking notes, or you can buy a notebook with unlined paper for sketching in.

- 1 Architectural Scale (ruler) – make sure that you get an ARCHITECTURAL scale, not ENGINEERING

[https://www.amazon.com/Alvin-110P-Plastic-Architect-Triangular/dp/B001DNHG64/ref=sr\\_1\\_4?ie=UTF8&qid=1481740476&sr=8-4&keywords=architectural+scale](https://www.amazon.com/Alvin-110P-Plastic-Architect-Triangular/dp/B001DNHG64/ref=sr_1_4?ie=UTF8&qid=1481740476&sr=8-4&keywords=architectural+scale)

- 1 Exacto Knife  
here is an example:

<https://www.amazon.com/X-ACTO-2-Knife-Safety-Cap/dp/B000V1QV70>

- 1 metal ruler (this is helpful for cutting models with straight lines)

[https://www.amazon.com/Officemate-Classic-Stainless-Measurements-66612/dp/B00IXLPO8G/ref=sr\\_1\\_6?s=office-products&ie=UTF8&qid=1485373689&sr=1-6&keywords=metal+straight+edge](https://www.amazon.com/Officemate-Classic-Stainless-Measurements-66612/dp/B00IXLPO8G/ref=sr_1_6?s=office-products&ie=UTF8&qid=1485373689&sr=1-6&keywords=metal+straight+edge)

- Glue & Tape

## ARCHITECTURAL DESIGN Fall 2019

Instructor: Anita Bakshi

Schedule

<b>Seeing and Interpreting Designed Spaces</b>		
WEEK 2 Sept.9	LECTURE <b>Course Introduction</b>  IN CLASS EXERCISE <b>Blake Hall Exploration &amp; Design Ideas (group project)</b>	
WEEK 3 Sept.16	LECTURE <b>2016 Architectural Design Awards</b>	IN CLASS EXERCISE <b>Doodle: "A House is a Machine for Living in"</b>  <b>Modelling the Villa Savoye</b>
<b>Architects &amp; Projects</b>		
WEEK 4 Sept.23	LECTURE <b>The Materials of Architecture</b>  CLASS PRESENTATION <b>Design Elements &amp; Principles Photograph Presentations</b>  STUDIO <b>Doodle: "Recycled Materials"</b> <b>Doodle: "Manipulate Light"</b> <b>Exercise 2: Experience Machine</b> (based on photos from Exercise 1)	<b>Exercise 1 Due (at beginning of class):</b> Design Elements & Principles Photographs  <b>Set up Student Blogs</b> Visit Source Websites Architizer.com Archpaper.com Architecturalrecord.com Archinect.com  <b>Exercise 2 (to be done in class):</b> Experience Machine
WEEK 5 Sept.30	<b>PRINCETON FIELD TRIP</b>	
WEEK 6 Oct.7	LECTURE <b>Non-Visual Aspects of Design</b>  CLASS PRESENTATION <b>Reading, Observing, Writing About Place</b>	<b>Exercise 3 Due:</b> Reading, Observing, Writing About Place <b>Read: Peter Zumthor - <i>Thinking Architecture</i></b>

	<p>STUDIO  <b>Doodle: “Tonkin Liu Sound Sculpture”</b>  <b>Doodle: “De Stijl”</b>  <b>Begin Project : 6x6x6 Cube</b></p>	<p><b>Blog Post: Recent Projects</b>  Spend some time exploring the recent posts on the architecture websites we discussed during Week 3. Post your observations on your blog about one or two projects you read about. Summarize the projects and take a stab at critiquing them. What did you like about the projects and why? What do you think could have been done better? How are the architects engaging with the design elements and principles you explored for Exercises 1 and 2.</p>
<p>WEEK 7  Oct.14</p>	<p>LECTURE  <b>Monuments &amp; Memorials</b></p> <p>STUDIO  <b>Doodle: “Constructivist Memorials”</b>  <b>Doodle: “Follies”</b></p> <p><b>Continue work on 6x6x6 Cube</b></p>	<p><b>Reading:</b>  Le Corbusier <i>“Towards a New Architecture”</i></p> <p><b>Blog Post: Le Corbusier</b>  We have spoken about the importance of Le Corbusier and his influence on other architects. Have a look at his projects and choose two buildings to write about. Describe the similarities and differences between them.</p>
<p>WEEK 8  Oct.21</p>	<p>STUDIO  <b>6x6x6 Cube – The next steps....</b>  <b>Design translation</b></p> <p><b>Exercise 4 Due:</b> 6x6x6 Cube  Bring your complete cube to class</p>	<p><b>Blog Post: Finished Cube</b>  Due AFTER CLASS TODAY  Post photos of your finished cube project. Write a few sentences about your design intentions and how you executed them.</p>

## Design Process & Urban Design

<p>WEEK 9  Oct. 28</p>	<p>LECTURE  <b>Sustainable Design &amp; Green Cities</b></p> <p>IN CLASS EXERCISE  <b>Doodle: “Greening Cities”</b></p> <p><b>Group Work: Green Buildings Slide Show &amp; Green Design Proposal</b></p> <p><b>Visit bus shelter locations &amp; take measurements</b></p>	<p><b>Reading:</b>  <i>EcoDistrict Planning Protocol</i></p> <p><b>Blog: Design Inspiration</b>  Design Inspiration for the final project to design a bus shelter. Write a few sentences about 2 or 3 architects that you are considering as options for this project. Look back through the lectures and decide on a few options. You can write about these architects’ career history, important design projects, design philosophy, and elements,</p>
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		<p>styles, and materials that they usually work with.</p> <p><b>Exercise 6 Due:</b> Green Cities Exercise (to be done in class)</p>
<p>WEEK <b>10</b> Nov.4</p>	<p><b>MAKERSPACE FIELD TRIP</b></p>	
<p>WEEK <b>11</b> Nov.11</p>	<p>IN CLASS EXERCISE <b>Inspiration Modelling from ‘Making’</b></p> <p>STUDIO <b>Begin Project: Designing with the Masters</b></p>	<p><b>Blog: NYC Architecture</b> Describe a recent architecture or landscape architecture project that has been built in New York City. Visit these websites, or the websites we have been working with, for some possible sites: <a href="http://www.archdaily.com/tag/new-york">http://www.archdaily.com/tag/new-york</a> <a href="http://ny.curbed.com/maps/42-star-projects-transforming-architecture-in-new-york-city">http://ny.curbed.com/maps/42-star-projects-transforming-architecture-in-new-york-city</a></p>
<p>WEEK <b>12</b> Nov.18</p>	<p>LECTURE <b>Other Ways of Doing Architecture</b> <b>Explore <a href="http://www.spatialagency.net/">www.spatialagency.net/</a></b></p> <p>STUDIO <b>Doodle: “Roof of a Building”</b> <b>Work on Designing with the Masters</b></p>	<p><b>Blog: Inspiration Points</b> Inspiration Points for bus shelter architecture - Now is the time to look more closely at your design inspiration for the bus shelter project. Look back at the architect / architects that will influence your final design exploration. What specifically will you try to interpret and incorporate in your bus shelter design?</p>
<p>WEEK <b>13</b> Nov.25</p>	<p><b>MAKERSPACE WORK DAY</b></p> <p><b>Blog: Makerspace Experience</b> After your work day at the Makerspace please post some photos of your efforts to learn some of the equipment there &amp; a few sentences about your experience.</p>	
<p>WEEK <b>14</b> Dec. 2</p>	<p>STUDIO <b>Studio Work Day</b> <b>Designing with the Masters</b></p>	

WEEK 15  
Dec. 9

## FINAL DESIGN PRESENTATIONS

**Blog: Final Post**

Post photos of your final models and a few sentences about your design process