



FA 23B — Architectural Drawing and Digital Design I

An introductory design studio course intended to develop skills in understanding, conceptualizing, generating and communicating architectural ideas. Students will learn how to produce basic architectural drawings, diagrams, and models in order to develop 2D and 3D representations. Students will also be tasked to critically analyze built environments through form, program, site, social and environmental context. Over the course, students will develop their own architectural project, and have the opportunity to present their design verbally and graphically.

Instructor: Eric Lin (erlin@brandeis.edu)

Class Meeting: Tues, Weds, Thurs 1:50 PM–4:20 PM (EDT)

Office Hours: By appointment.

Zoom Link:

Class Format:

The class will be taught remotely, but students are encouraged to collaborate in person if available. The course follows the traditional design studio model of professional architectural education, through a series of precedent presentations, design projects, individual desk-crits, group pin-ups, and public reviews. This structure invites a high level of engagement and self-initiative by students, as they are expected to advance their design efforts in response to the assigned briefs and arrive fully prepared to discuss their current progress at every class meeting.

Required Software:

Every student will be required to have a laptop capable of meeting the minimum requirements of the listed software, a mouse, and will need to install listed software. Brandeis students have free educational access to LinkedIn Learning which offers tutorial recordings. Significant additional time outside of class will need to be spent learning the tools to complete the assignments effectively.

SketchUp

Free Web-based version: <https://app.sketchup.com/app>

Rhino 8

Free 90 day trial: <https://www.rhino3d.com/download/rhino/evaluation/>

Adobe Creative Cloud

Please refer to the following guidelines from Brandeis Technology Help Desk:
www.brandeis.edu/its/services/software-business-systems/software/adobe.html

Course plan

Week 1

Tuesday 7/9: Introduction to architectural drawings

Wednesday 7/10: Introduction to diagram, Introduction to 3D modeling

Thursday 7/11: Pin-up 01

Week 2

Tuesday 7/16: **Tiny Homes Presentation**

Wednesday 7/17: Introduction to design methodology

Thursday 7/18: Desk Crit

Week 3

Tuesday 7/23: **Precedent Presentation**

Wednesday 7/24: Desk Crit

Thursday 7/25: Desk Crit

Week 4

Tuesday 7/29: **Mid-review**

Wednesday 7/30: Desk Crit

Thursday 7/31: Introduction to rendering

Week 5

Tuesday 8/5: Desk Crit

Wednesday 8/6: Desk Crit

Thursday 8/7: **Final Review**

Evaluation and Grading

<i>Class Element</i>	<i>Grade Percentage</i>	
<i>In-class participation</i>	<i>20%</i>	<i>Timeliness to studio meetings and diligence to work and discussion throughout the studio duration. Preparedness for desk crits with work ready to show at the start of studio meetings.</i>
<i>Tiny Homes Presentation</i>	<i>15%</i>	<i>Rigor of critical analysis of tiny homes.</i>
<i>Precedent Presentation</i>	<i>15%</i>	<i>Rigor of critical analysis of precedent.</i>
<i>Mid Review</i>	<i>20%</i>	<i>Ability to translate conceptual ideas into a visual and spatial design language.</i>
<i>Final review</i>	<i>30%</i>	<i>Thoughtfulness and rigor of the student design process and the quality and resolution of the final product</i>

Tiny Homes Projects

Whittier Heights Women’s Village, Seattle, WA
 Alexandria Park Tiny Homes Village, Los Angeles, CA
 DignityMoves Village, San Francisco, CA
 Connect Homes, Mountain View, CA
 Emerald Village, Eugene, OR
 Village at Glencliff, Nashville, TN
 Safe Rest Pod Village, Portland, OR
 Social Bite Village, Edinburgh, Scotland
 Bill Sword Social Bite Recovery Village, Dundee, Scotland

Design Precedents

Eames House (Charles and Ray Eames, 1949)
 Monsanto House (Richard Hamilton and Marvin Goody, 1957)
 Moriyama House (SANAA, 2005)
 Day Labor Station (Public Architecture, 2005)
 Villa Verde Housing (ELEMENTAL, 2010)
 Temporary Housing Onagawa (Shigeru Ban, 2011)
 Arena do Morro (Herzog & de Meuron, 2014)
 Thread Artist Residency (Toshiko Mori, 2015)
 Higashi Sanchome (Nao Tamura, 2020)

Important Course Policies

Expectations for student contribution to coursework

Success in this four-credit course is based on the expectation that students will contribute a minimum of 9 hours of study time per week in preparation for class. Please feel free to reach out to me about difficulties you may be having that may impact your performance in this course as soon as it occurs and before it becomes too overwhelming.

Missed classes/assignments

If you have a truly major health or family emergency, please contact me as soon as possible so we can make sure you stay on track.

Academic honesty

You are expected to be familiar with, and to follow, the University's policies on academic integrity. You are expected to be honest in all of your academic work. Please consult [Brandeis University Rights and Responsibilities](#) for all policies and procedures related to academic integrity. Allegations of alleged academic dishonesty will be forwarded to Student Rights and Community Standards. Sanctions for academic dishonesty can include failing grades and/or suspension from the university. [Citation and research assistance](#) can be found on the [university library website](#).

Accommodations

Brandeis seeks to create a learning environment that is welcoming and inclusive of all students, and I want to support you in your learning. If you think you may require disability accommodations, you will need to work with Student Accessibility Support (SAS). You can contact them at 781-736-3470, email them at access@brandeis.edu, or visit the [Student Accessibility Support home page](#). You can find helpful student FAQs and other resources on the SAS website, including guidance on how to know whether you might be eligible for support from SAS.

If you already have an accommodation letter from SAS, please provide me with a copy as soon as you can so that I can ensure effective implementation of accommodations for this class. In order to coordinate exam accommodations, ideally you should provide the accommodation letter at least 48 hours before an exam.

Respectful environment

Brandeis University is committed to providing its students, faculty, and staff with an environment conducive to learning and working, where all people are treated with respect and dignity. Please refrain from any behavior toward members of our Brandeis community, including students, faculty, staff, and guests, that intimidates, threatens, harasses, or bullies.