LA 2101 | 7102
Landscape Representation
FRANK LLOYD WRIGHT'S Unbuilt Houses

Brendan Harmon
baharmon@lsu.edu

Spring 2018. Design 217,
Monday, Wednesday, & Friday 9:30am–11:30am.

Morris House
Frank Lloyd Wright
1945

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Course Description

This course is an introduction to 3D modeling for landscape architects. In this course you will develop a solid foundation in 3D modeling by building a detailed digital model of one of Frank Lloyd Wright's unbuilt houses and its landscape. You will learn a range of 3D modeling techniques including 3D drafting, solid modeling, surface modeling, mesh modeling, and billboards. You will learn how to digital fabricate physical models of buildings and landscapes using 3D printing. You will also learn how to make graphics with 3D rendering and photomontage. Each week you will spend a day in a workshop learning new methods and a day developing your projects. You will work in small teams and will present an exhibition and a booklet of your models and renderings at the end of the course.

Optional Fieldtrip

There will be an optional fieldtrip to New York City to view the Frank Lloyd Wright Collection at Columbia's Avery Architectural and Fine Arts Library led by Prof. Desmond.
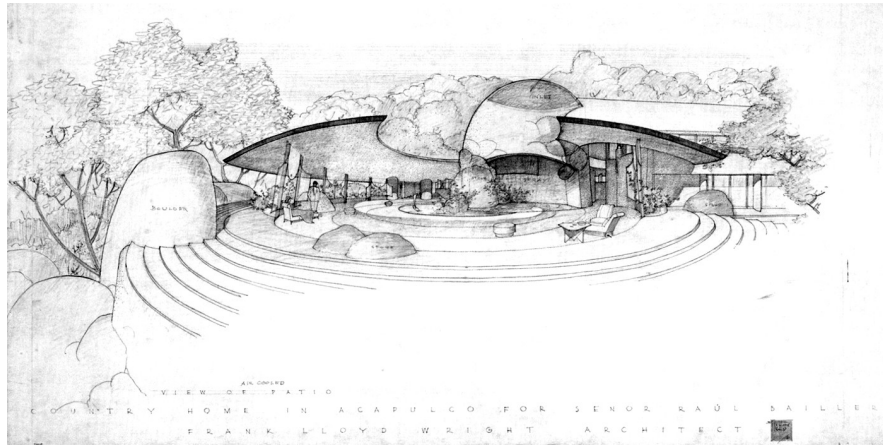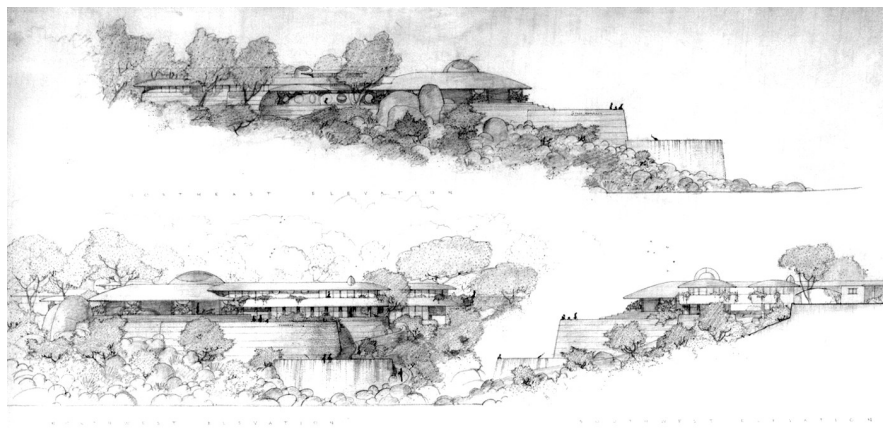
Figure 1: Bailleres House, Acapulco, Mexico, 1952

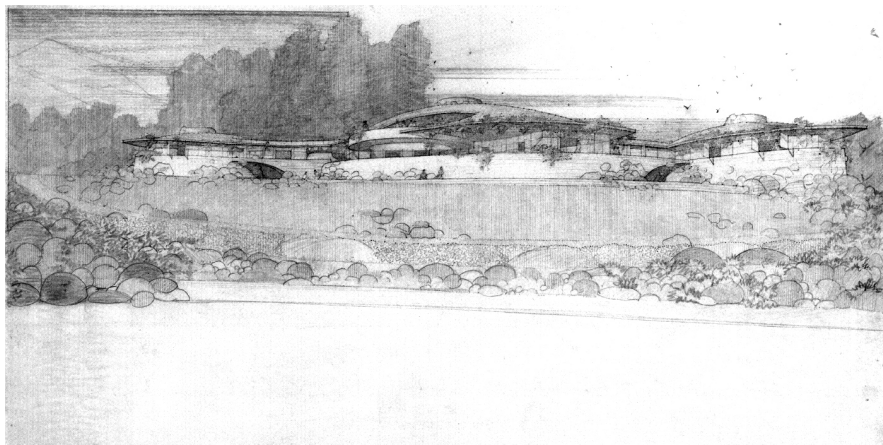Figure 2: Bailleres House, Acapulco, Mexico, 1952

Figure 3: Kaufman Boulder House, Palm Springs, CA, USA, 1950

Course Schedule

1 Seminar	**6** Terrain modeling	**11** Photomontage
2 2D-3D drafting	**7** 3D rendering	**12** Layout design
3 Solid modeling	**8** Section-elevations	**13** Production
4 Surface modeling	**9** 3D printing	**14** Booklet
5 Data acquisition	**10** Billboard trees	**15** Exhibition

Projects

As groups you will 3D model of one of Frank Lloyd Wright's unbuilt houses or estates – either Jester House, Usonia, Morris House, Galesburg, Hargrove House, Kaufman Boulder House, Bailleres House, Hennesey House, or Stillman House – and its landscape.

3D Renderings Each group will create beautiful 3D renderings of their house and its landscape. These renderings should include a plan, a sun study, 4 section-elevations, and 4 perspectives.

3D Prints Each group will make a beautiful 3D printed model of their building and its topography. The model should be printed in multiple parts to reveal sectional views.

Booklet Each group will prepare a booklet for the exhibition about the house, the site, the clients, the original drawings, your 3D renderings, and photos of your 3D prints.

Exhibition Each group will create a display for an exhibition of the unbuilt houses. Each display should include plots of your 3D renderings, your 3D prints, and information about the house.

Software

Rhinoceros | https://www.rhino3d.com/
RhinoTerrain | http://www.rhinoterrain.com/
ArcGIS | http://desktop.arcgis.com/en/
Adobe Photoshop | http://www.adobe.com/products/photoshop.html
Adobe Illustrator | http://www.adobe.com/products/illustrator.html
Adobe InDesign | http://www.adobe.com/products/indesign.html
Blender | https://www.blender.org/

Grading

3D Renderings   25%   **3D Prints**   25%   **Exhibition**   25%   **Booklet**   25%

Readings

Bergdoll, Barry, and Jennifer Gray. 2017. *Frank Lloyd Wright: Unpacking the Archive.* The Museum of Modern Art.

Pfeiffer, Bruce Brooks, and Peter Gössel. 2015. *Frank Lloyd Wright.* Taschen.

Policies

Time Commitment Expectations LSU's general policy states that for each credit hour, you (the student) should plan to spend at least two hours working on course related activities outside of class. Since this course is for three credit hours, you should expect to spend a minimum of six hours outside of class each week working on assignments for this course. For more information see: `http://catalog.lsu.edu/content.php?catoid=12&navoid=822`.

LSU student code of conduct The LSU student code of conduct explains student rights, excused absences, and what is expected of student behavior. Students are expected to understand this code: `http://students.lsu.edu/saa/students/code`.

Disability Code The University is committed to making reasonable efforts to assist individuals with disabilities in their efforts to avail themselves of services and programs offered by the University. To this end, Louisiana State University will provide reasonable accommodations for persons with documented qualifying disabilities. If you have a disability and feel you need accommodations in this course, you must present a letter to me from Disability Services in 115 Johnston Hall, indicating the existence of a disability and the suggested accommodations.

Academic Integrity According to section 10.1 of the LSU Code of Student Conduct, "A student may be charged with Academic Misconduct" for a variety of offenses, including the following: unauthorized copying, collusion, or collaboration; "falsifying" data or citations; "assisting someone in the commission or attempted commission of an offense"; and plagiarism, which is defined in section 10.1.H as a "lack of appropriate citation, or the unacknowledged inclusion of someone else's words, structure, ideas, or data; failure to identify a source, or the submission of essentially the same work for two assignments without permission of the instructor(s)."

Plagiarism and Citation Method Plagiarism is the "lack of appropriate citation, or the unacknowledged inclusion of someone else's words, structure, ideas, or data; failure to identify a source, or the submission of essentially the same work for two assignments without permission of the instructor(s)" (Sec. 10.1.H of the LSU Code of Student Conduct). As a student at LSU, it is your responsibility to refrain from plagiarizing the academic property of another and to utilize appropriate citation method for all coursework. In this class, it is recommended that you use Chicago Style author-date citations. Ignorance of the citation method is not an excuse for academic misconduct.