

JACK CERNY

PORTFOLIO OF CREATIVE WORKS 2019-2020

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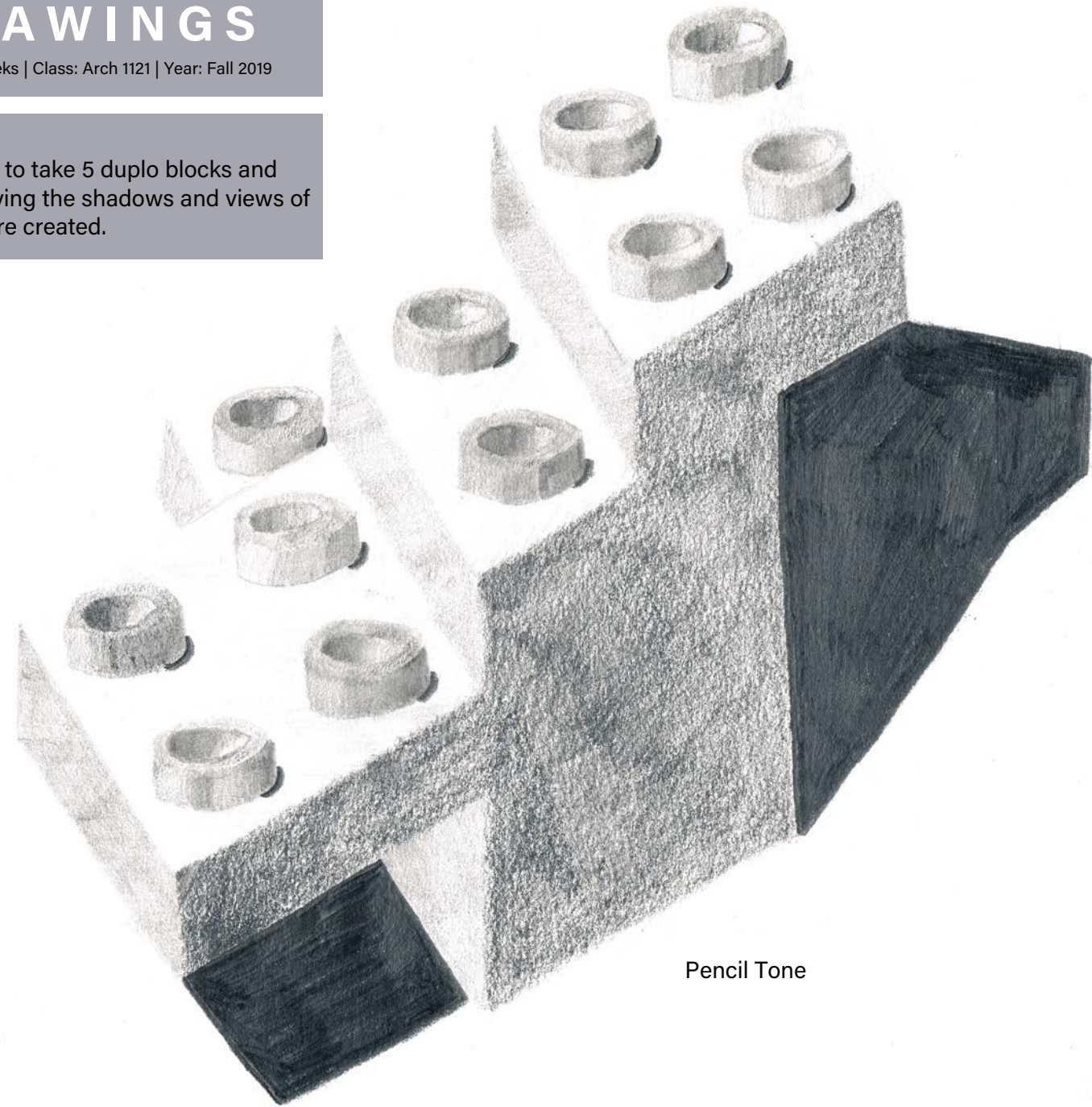


Environmental Education Center (Fall 2020)

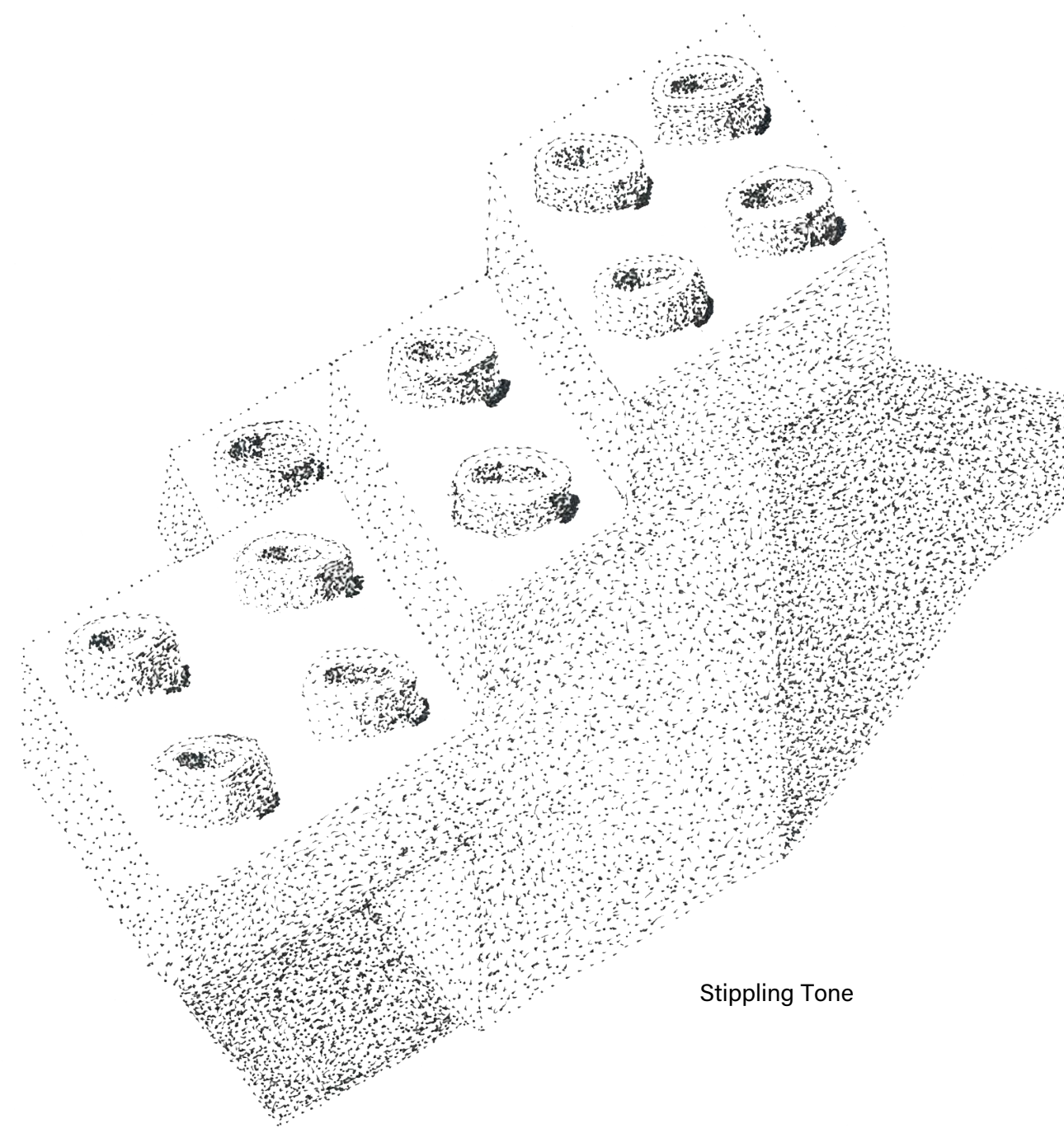
DUPLO DRAWINGS

Professor: Jane Ostergaard | Duration: 2 weeks | Class: Arch 1121 | Year: Fall 2019

OBJECTIVE
The objective of this project was to take 5 duplo blocks and create a unique form. After studying the shadows and views of the duplos, paraline drawing were created.



Pencil Tone



Stippling Tone

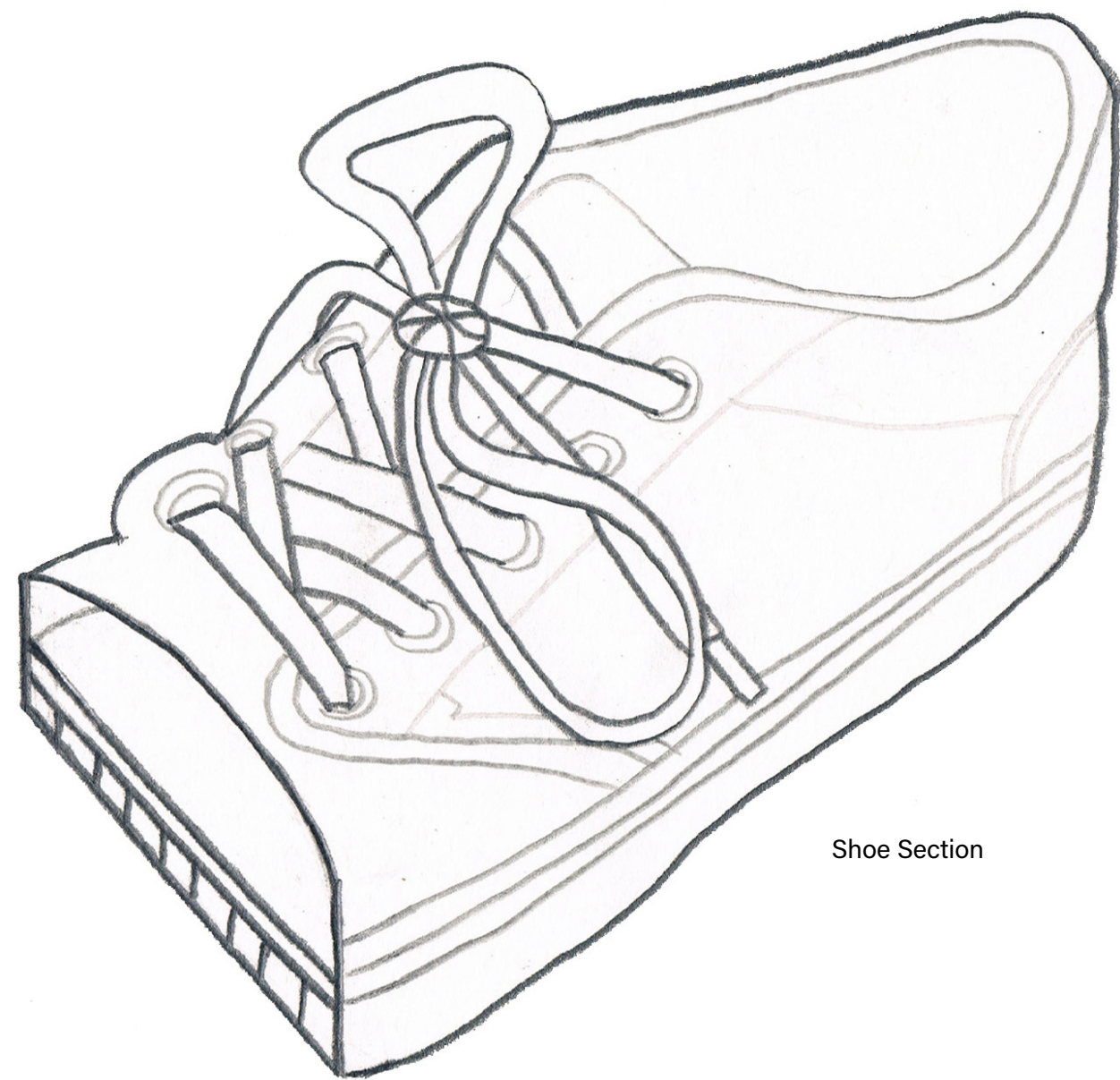
SHOE CONTOUR

Professor: Jane Ostergaard | Duration: 1 week | Class: Arch 1121 | Year: Fall 2019

OBJECTIVE
The objective of this project was to draw a shoe and its section. Using different line wights, the drawings helped develop hand-rendering skills.



Shoe Oblique

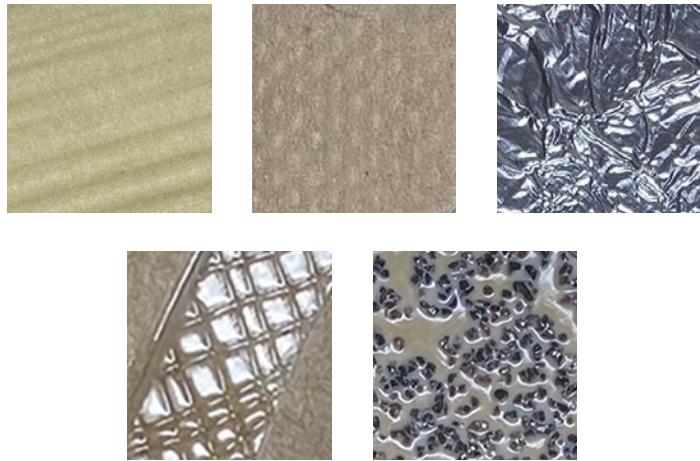


Shoe Section

TEXTURE COLLAGE

Professor: Jane Ostergaard | Duration: 1 week | Class: Arch 1121 | Year: Fall 2019

OBJECTIVE
The objective of this project was to create a composition utilizing found materials and to recreate it using pencil tones.



Texture Samples



Texture Collage



Drawn Texture Collage



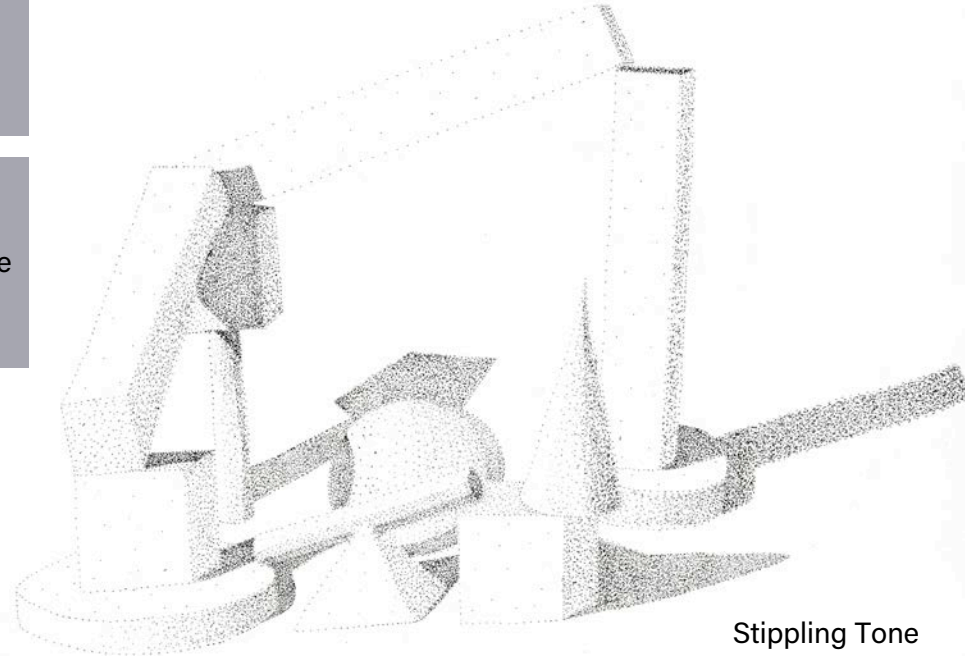
Drawn Texture Samples

STILL LIFE

Professor: Jane Ostergaard | Duration: 4 weeks | Class: Arch 1121 | Year: Fall 2019

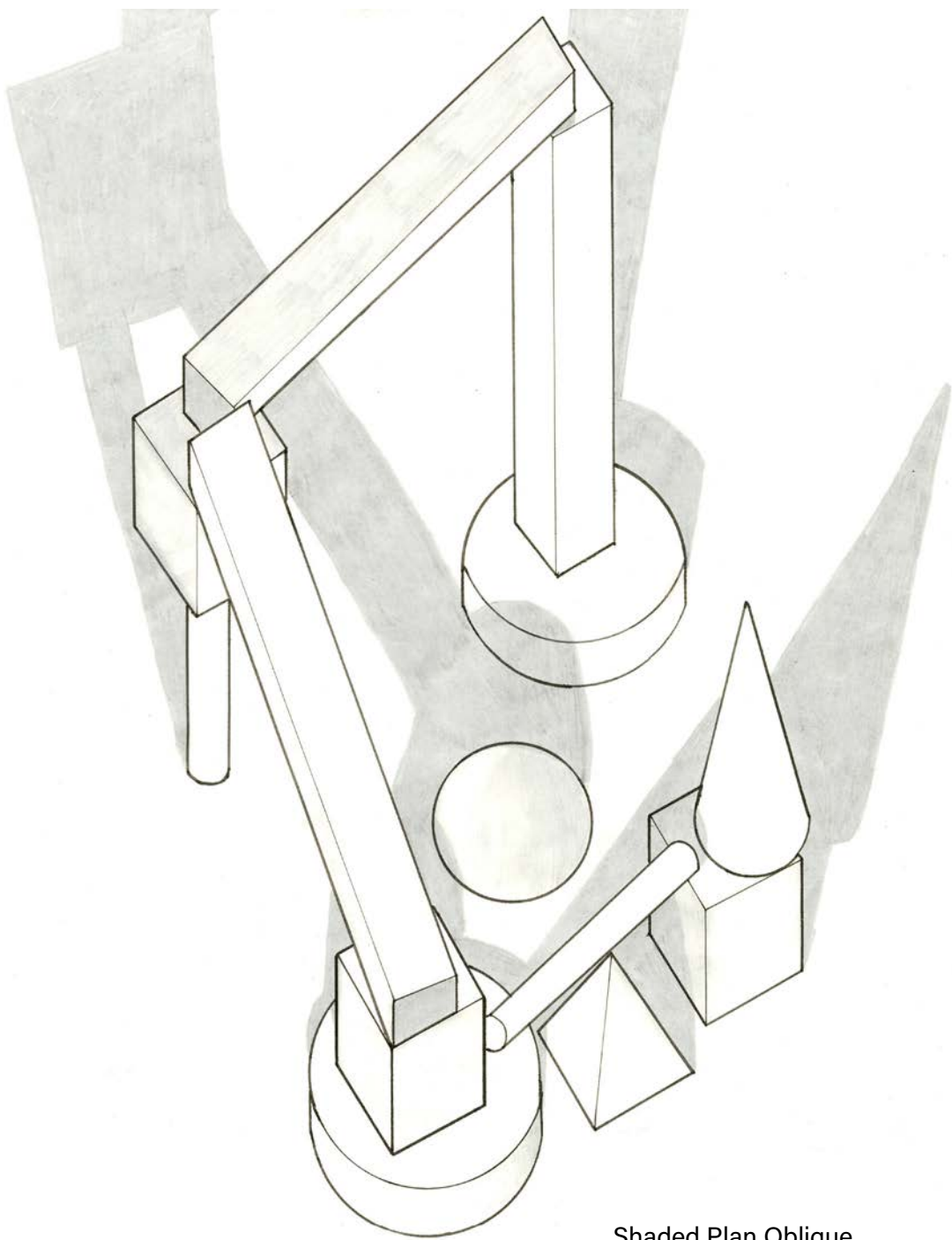
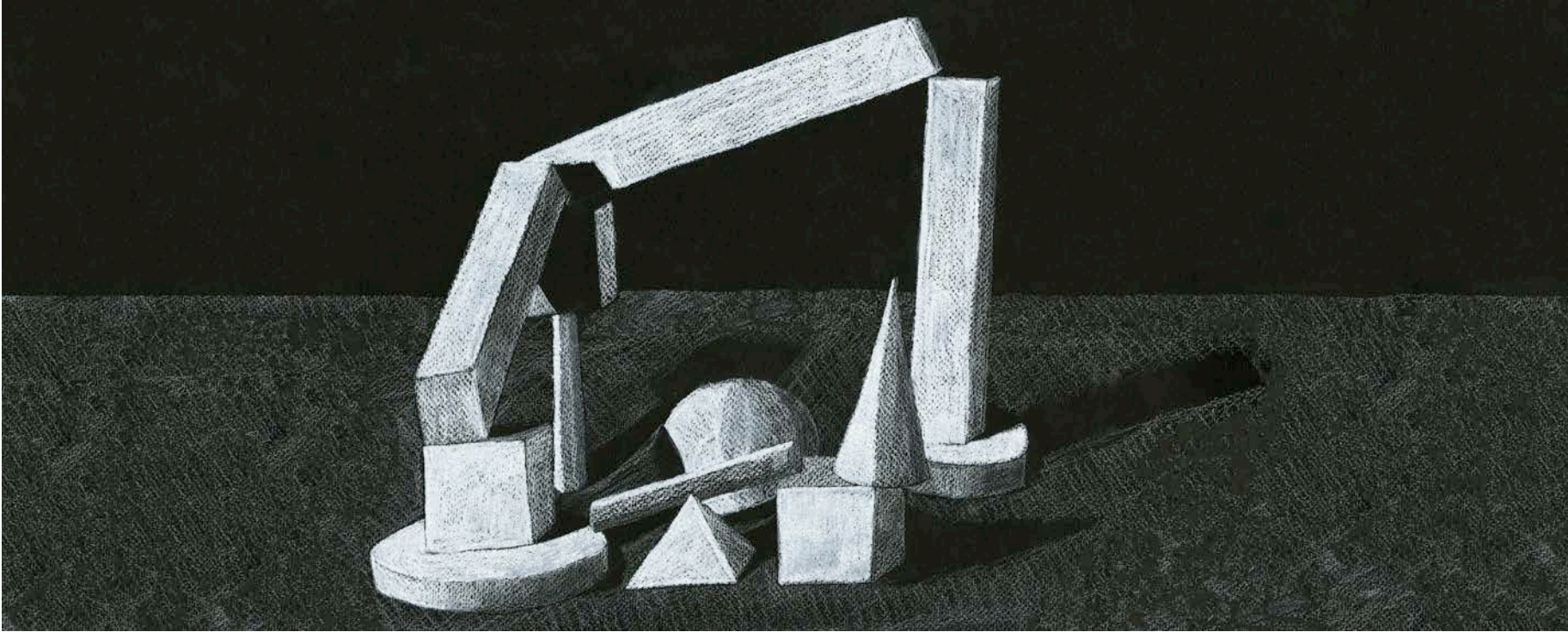
OBJECTIVE

The objective of this project was to create models of various shapes and create a composition with them. After creating the composition, tone and shading drawings were done to improve these skills.

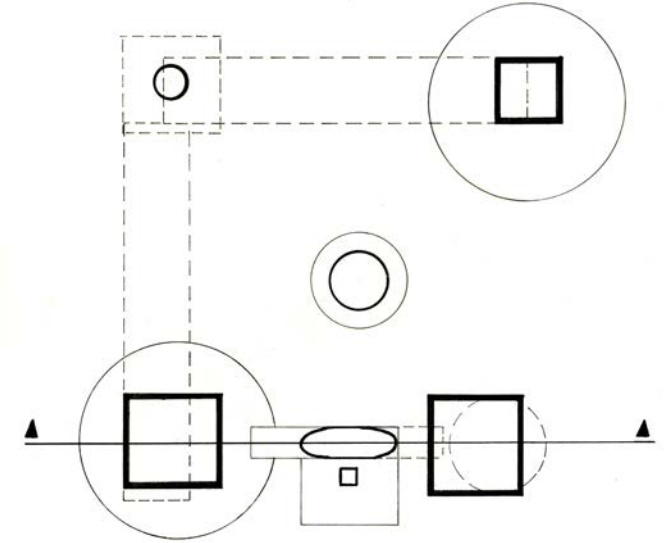


Stippling Tone

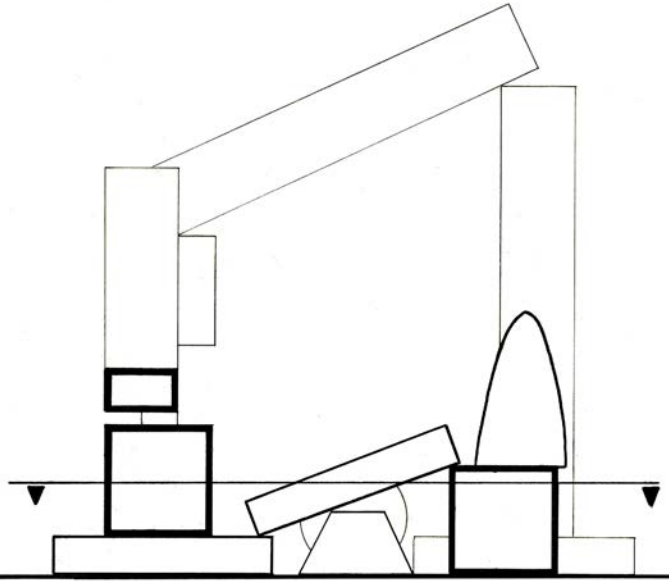
White Tone



Shaded Plan Oblique



Plan



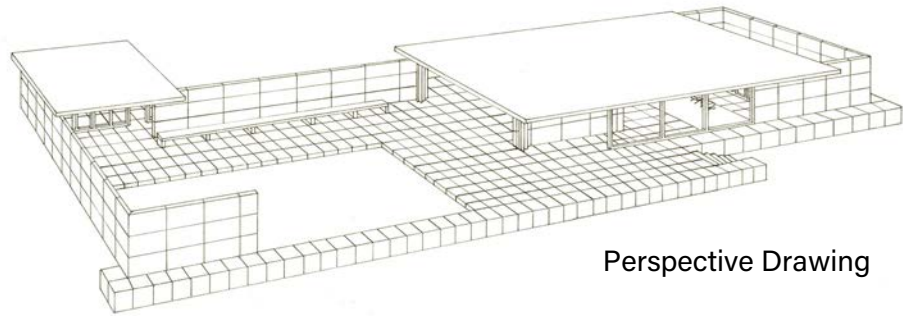
Section

BARCELONA STUDY

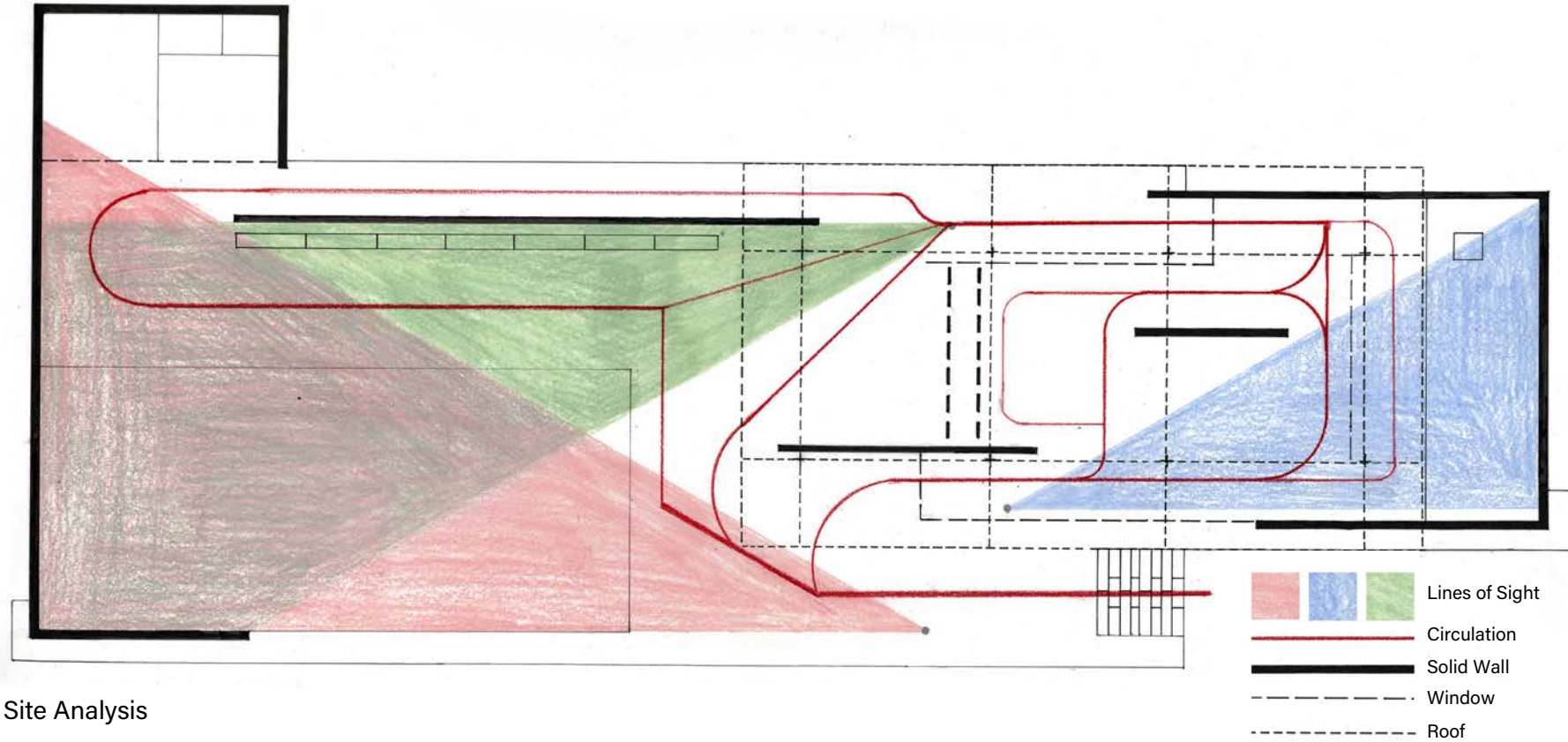
Professor: Jane Ostergaard | Duration: 4 weeks | Class: Arch 1121 | Year: Fall 2019

OBJECTIVE

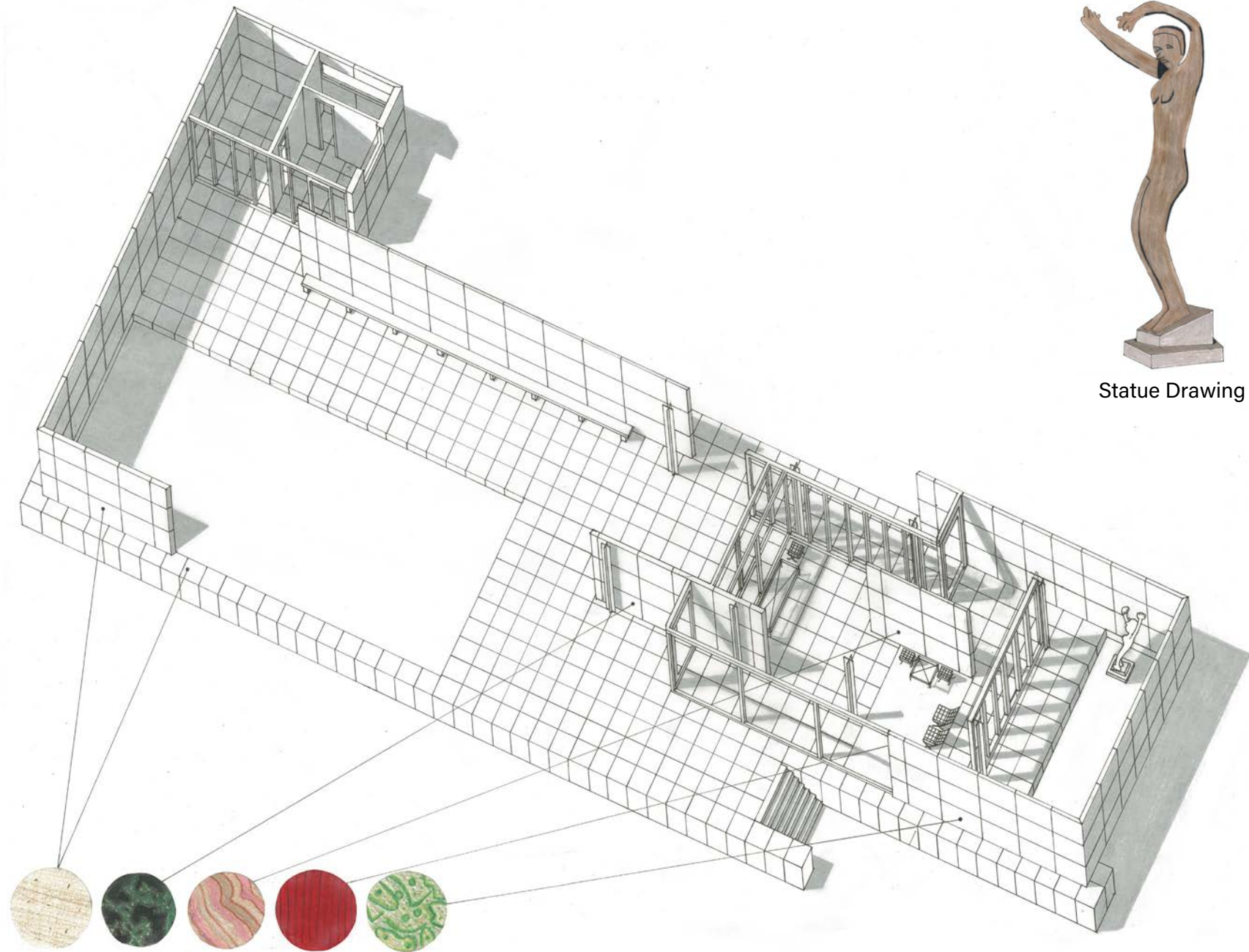
The objective of this project was to draw and diagram Ludwig Mies Van Der Rohe's Barcelona Pavilion and learn about all aspects of the building.



Perspective Drawing



Site Analysis



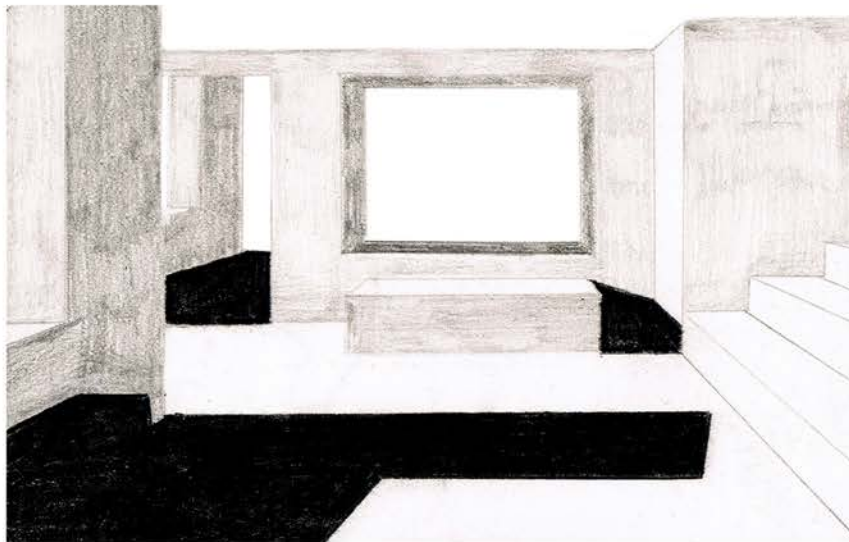
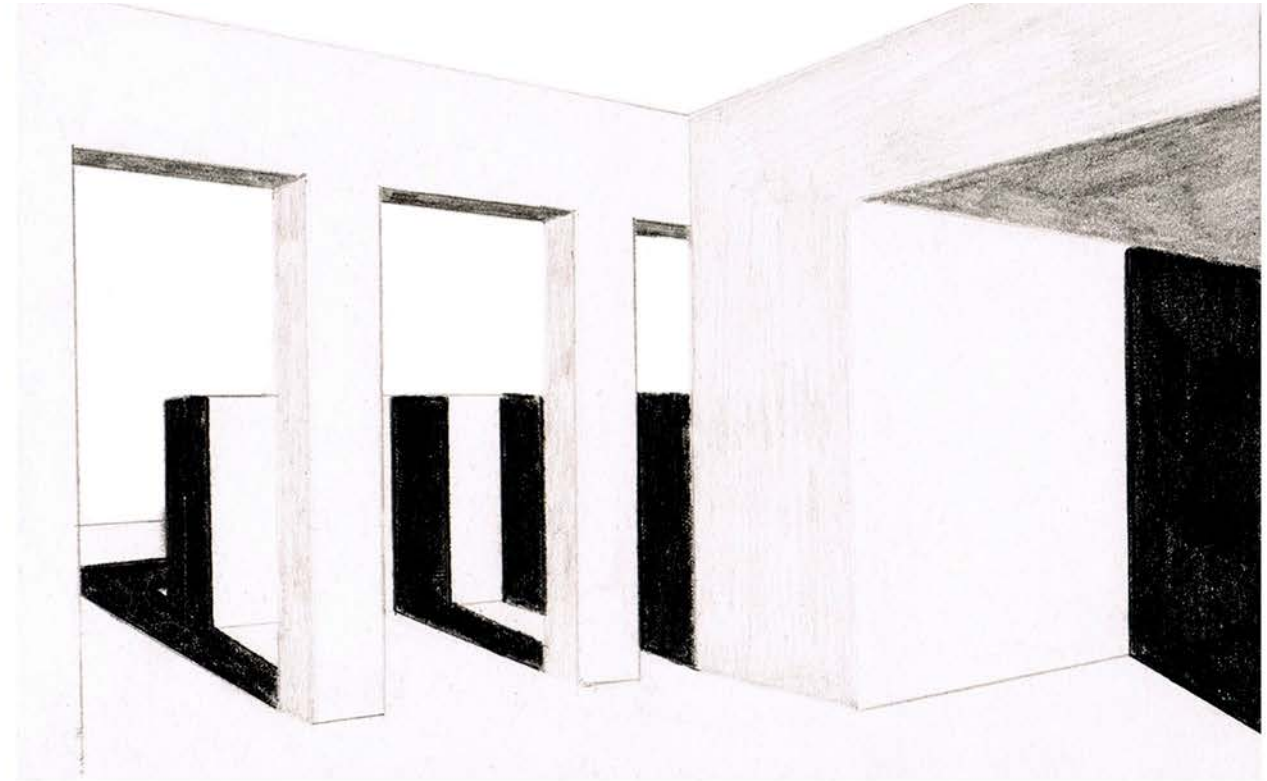
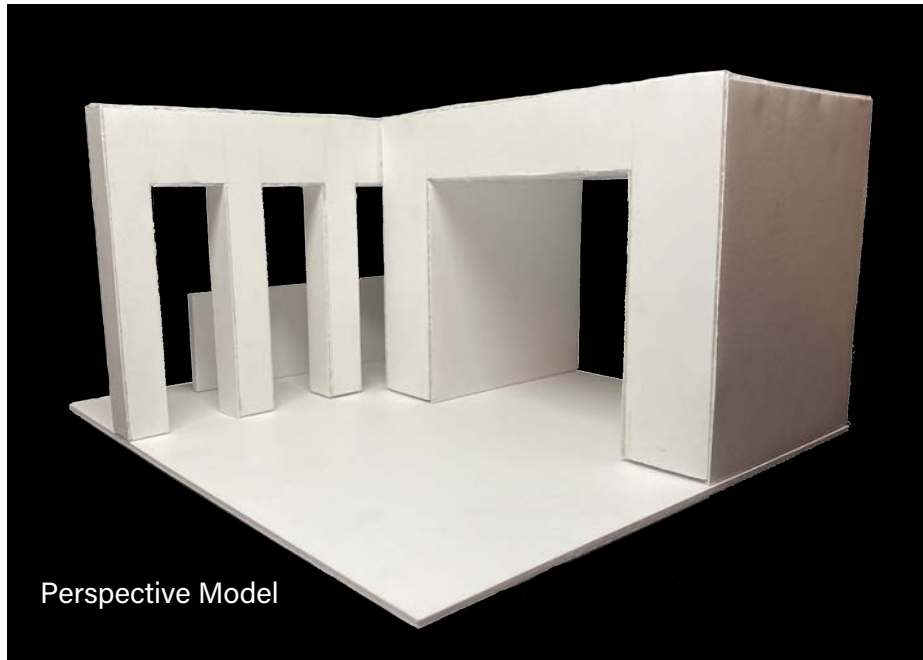
Statue Drawing



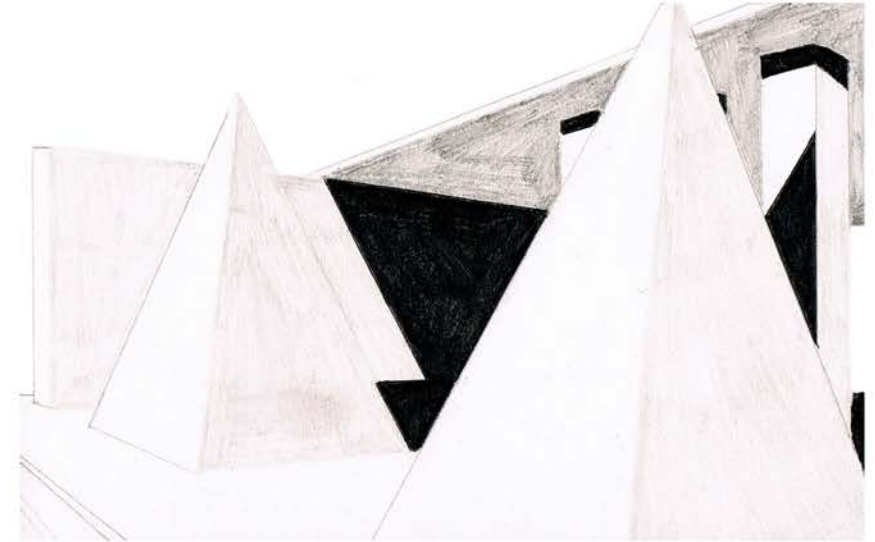
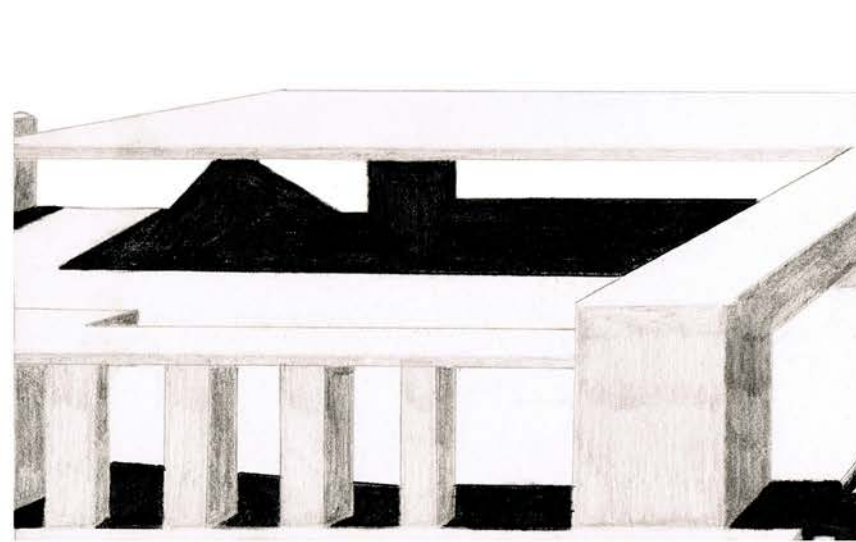
PERSPECTIVE

Professor: Jane Ostergaard | Duration: 3 weeks | Class: Arch 1121 | Year: Fall 2019

OBJECTIVE
The objective of this project was to create a series of spaces using one and two point perspective. These spaces were then hand-rendered using pencil tone. Finally, one space was chosen to be made into a model.



One Point Perspective



Two Point Perspective

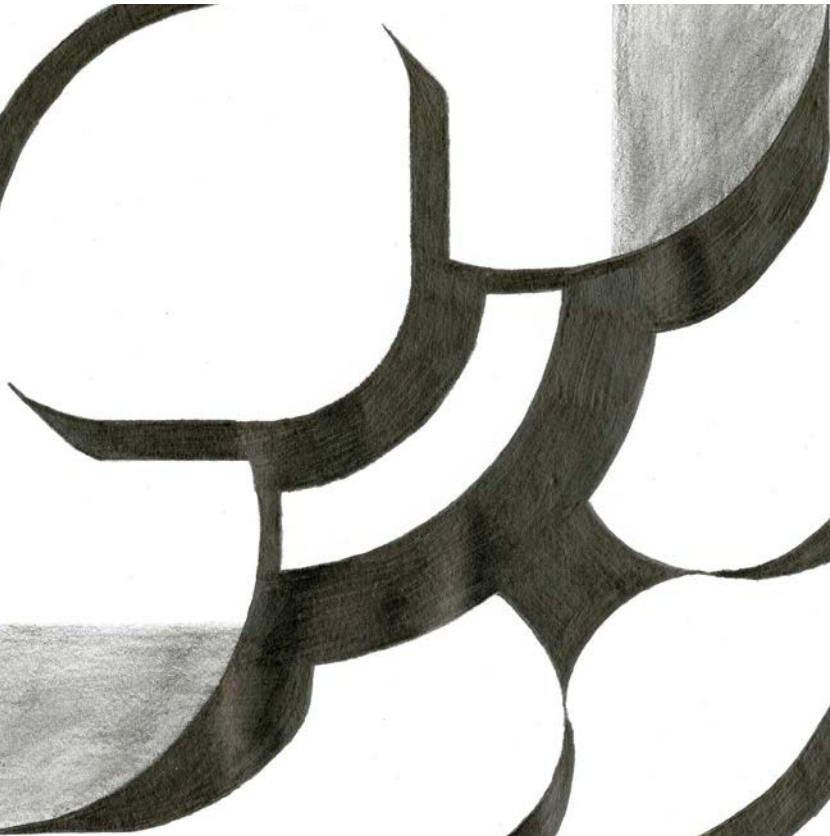
FORM & HIEARCHY

Professor: Jane Ostergaard | Duration: 4 weeks | Class: Arch 1131 | Year: Spring 2020

OBJECTIVE

The objective of this project was to create a composition of lines and arcs that were both symmetrical and asymmetrical. Hierarchy was then added with tonal values.

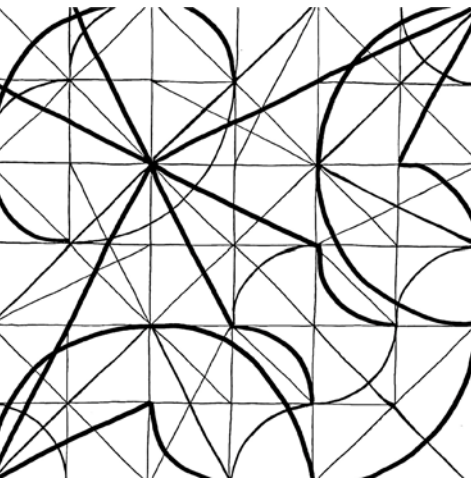
Toned Symmetrical Composition



Symmetrical Composition Model



Symmetrical
Line Composition



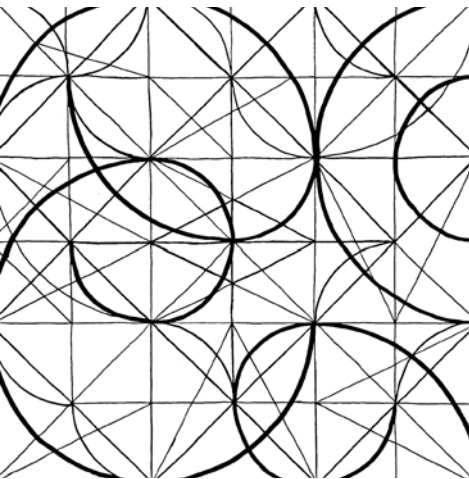
Toned Asymmetrical Composition



Asymmetrical Composition Model



Asymmetrical
Line Composition



GATHERING SPACE

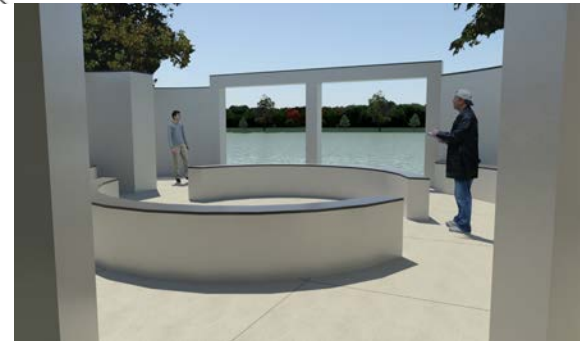
Professor: Jane Ostergaard | Duration: 3 weeks | Class: Arch 1131 | Year: Spring 2020

OBJECTIVE

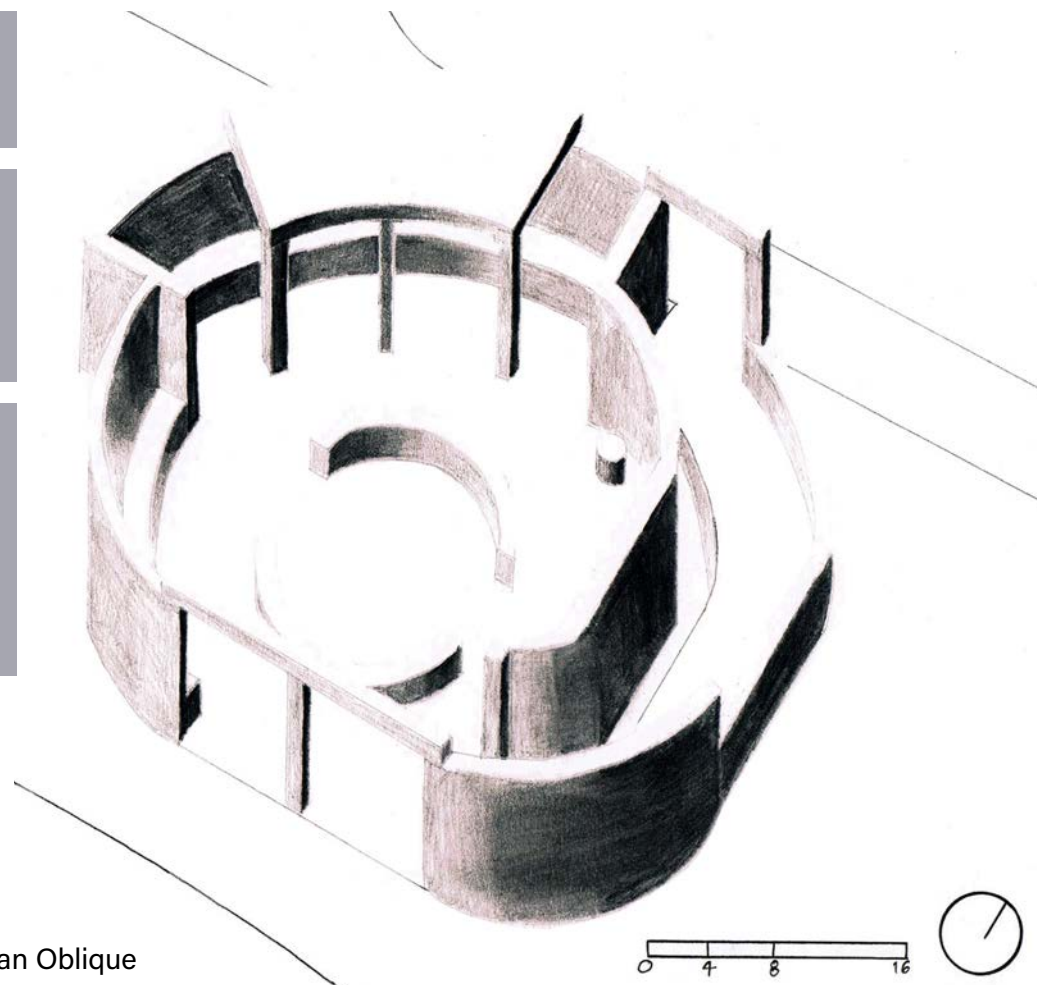
The objective of this project was to create a gathering space located on the College of DuPage campus. The design required the use of pre-assigned architectural elements that could be used in any way.

CONCEPT

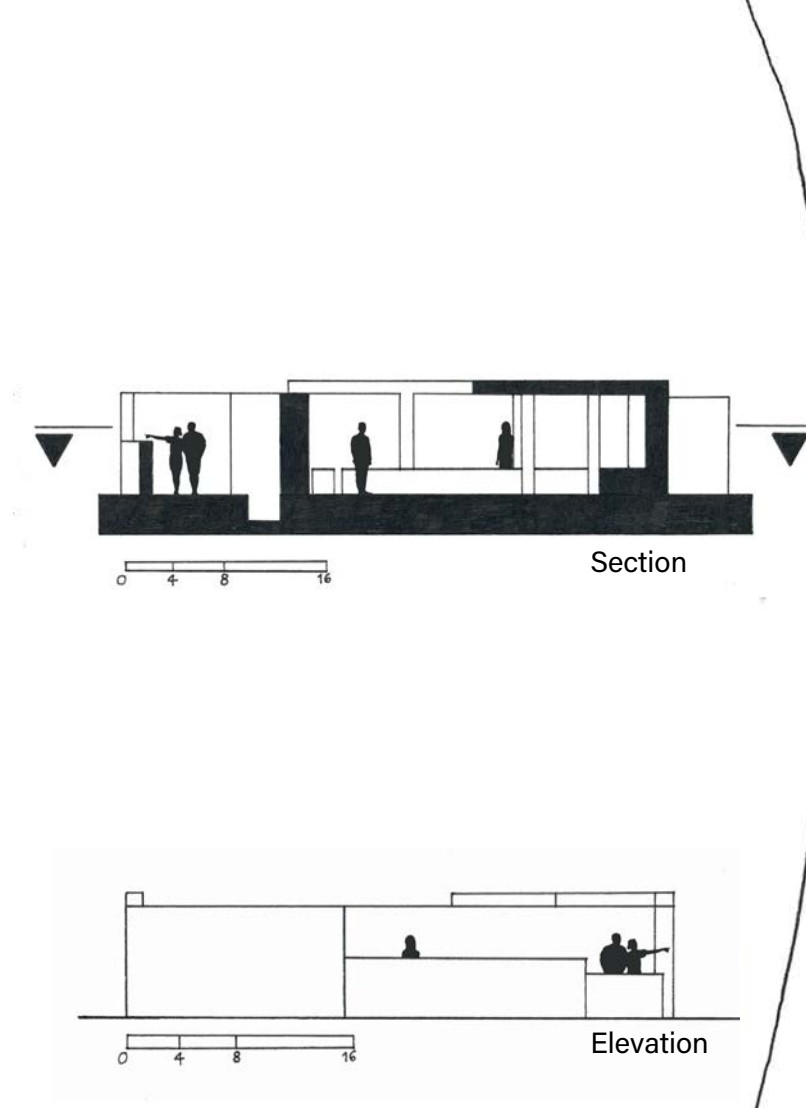
This project embodies the idea of a stress-free environment. The walls around the gathering space create a barrier to block the views of surrounding buildings and the loud sounds of the area. When inside the space, people can view, hear, and smell the adjacent pond making one feel connected to nature and feel less stressed.



Interior 3D Renderings

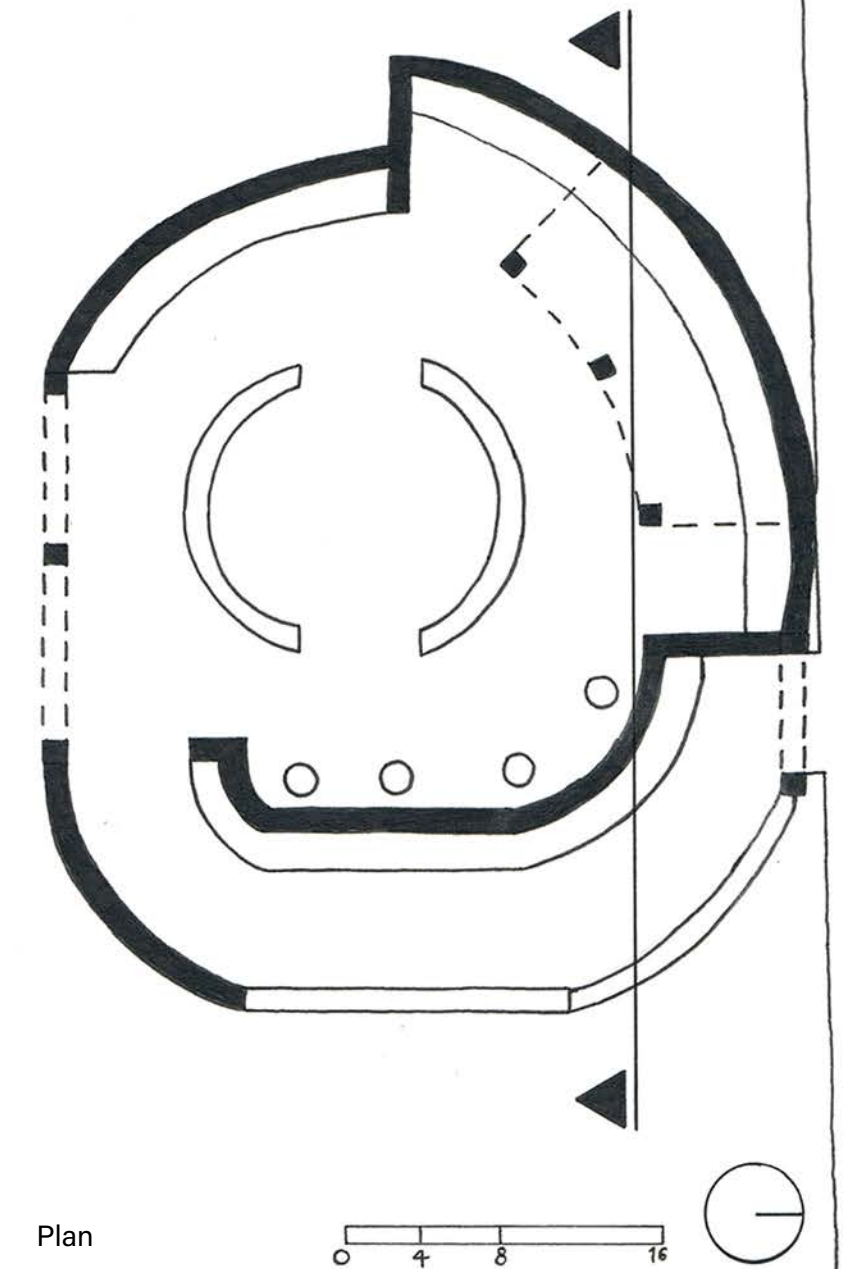


Toned Plan Oblique



Section

Elevation



Plan

SPATIAL SEQUENCE

Professor: Jane Ostergaard | Duration: 2 weeks | Class: Arch 1131 | Year: Spring 2020

OBJECTIVE

The objective of this project was to create 3 unique spaces that are connected by a path and accommodate the seasons. The project had to fit within a given park boundary using a limited kit of parts.

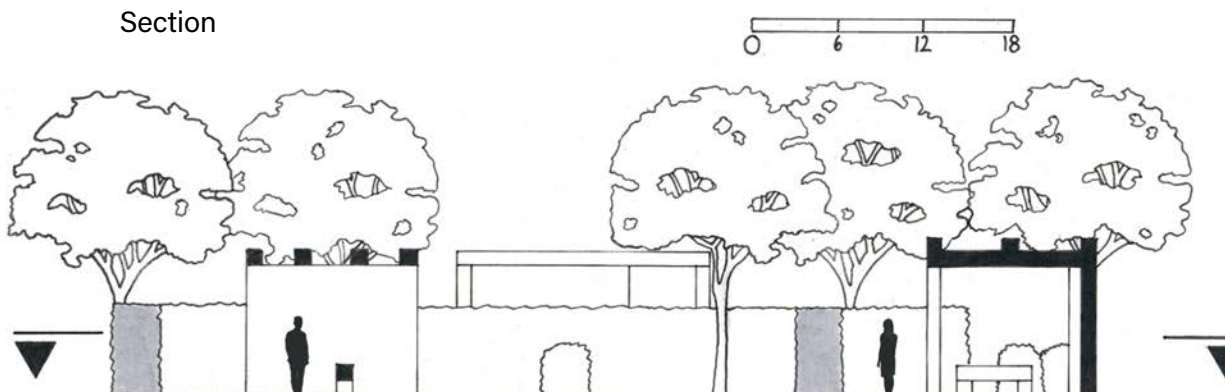
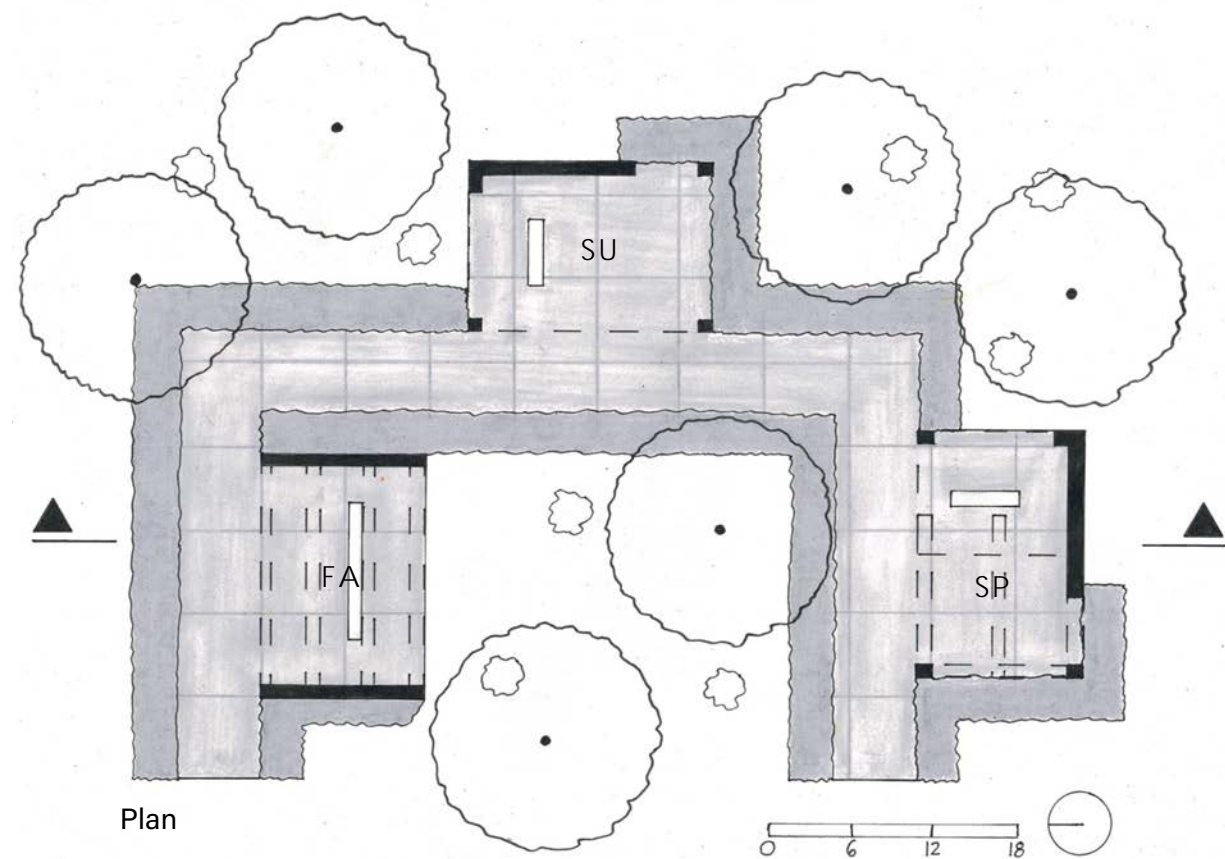
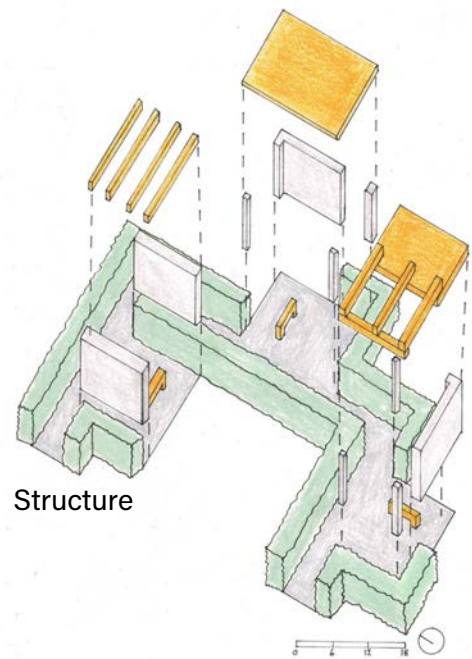
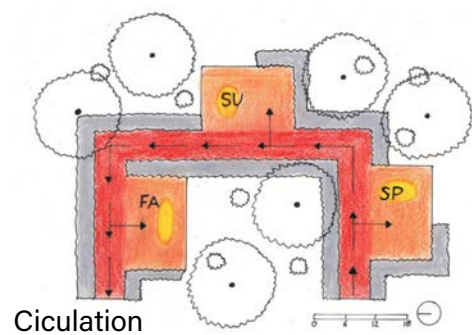
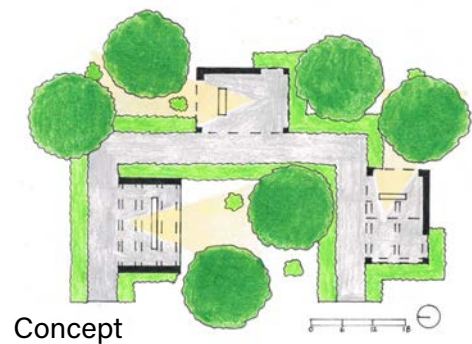
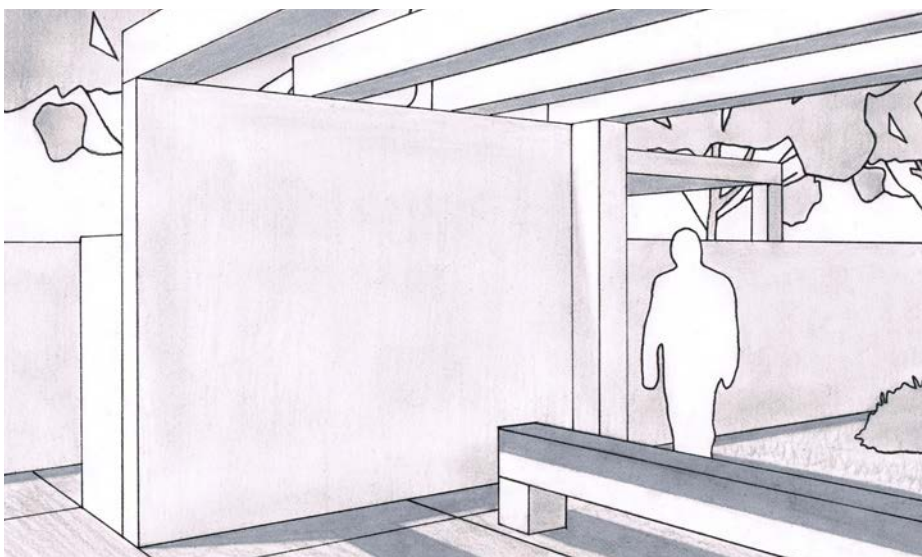
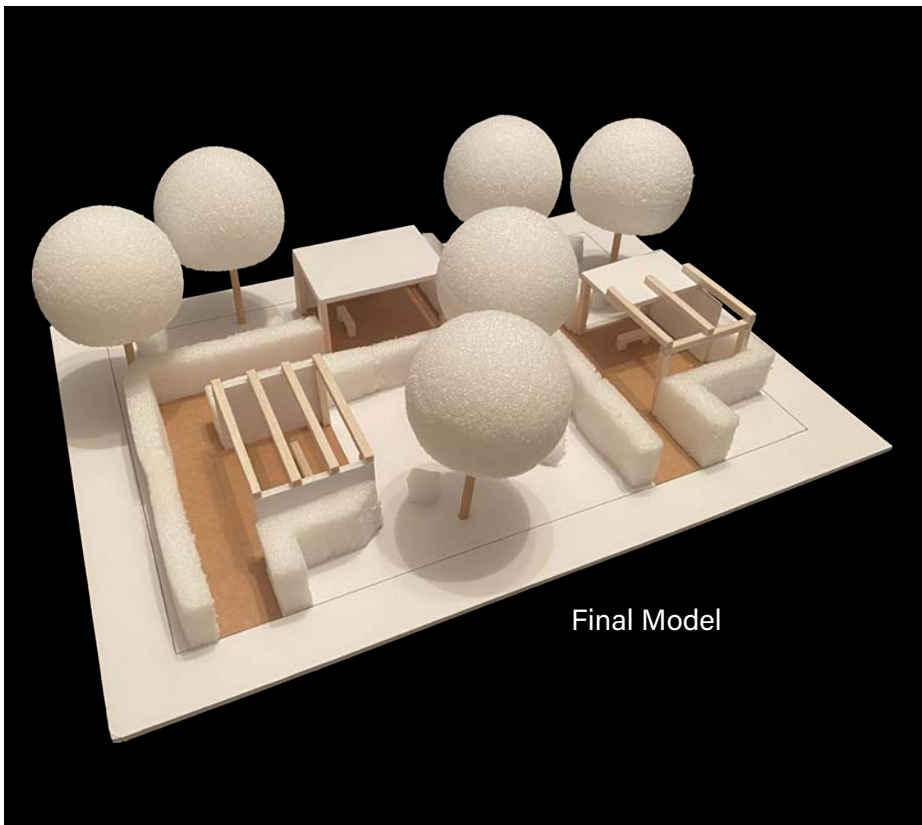
CONCEPT

This project creates three spaces that frame views of the seasons' natural beauty and provide the right amount of shade for the climate of the season.

Using 6-foot hedges as a barrier, visitor's eyes are directed towards the framed views of nature within each space. This barrier removes unnecessary distractions and gives people the perfect view to fully understand the seasons beauty. Also, each space is positioned differently to accommodate the climate of the season.

Spring is known for its fluctuating temperature. To accommodate for this, the space is partially shaded so that there is equal amount of shade and light. Summer is known for being hot. To accommodate for this, the space is fully shaded to keep visitors protected from the heat. Fall is known for being quite cool. To accommodate for this, the space does not provide much shade. This allows for light to enter the space and provide natural heating for visitors occupying the space.

Pencil Tone
Hand Render



MATERIALS STUDY

Professor: Jane Ostergaard | Duration: 2 weeks | Class: Arch 1131 | Year: Spring 2020

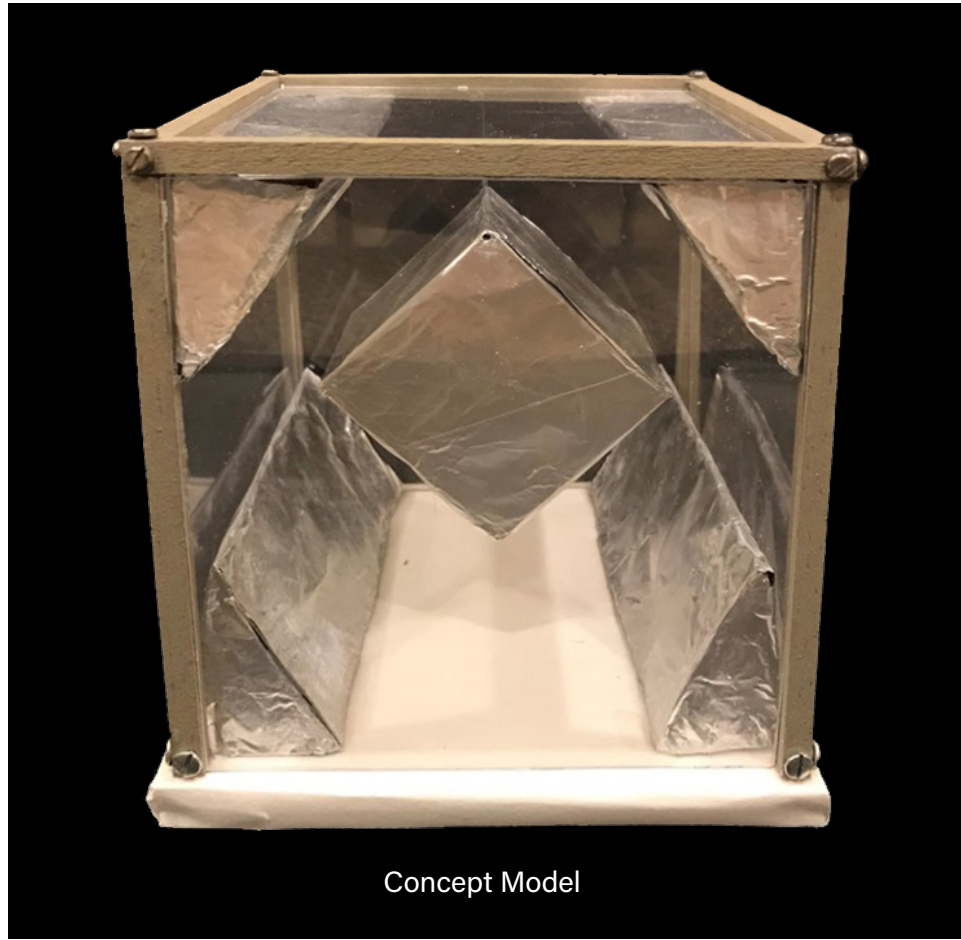
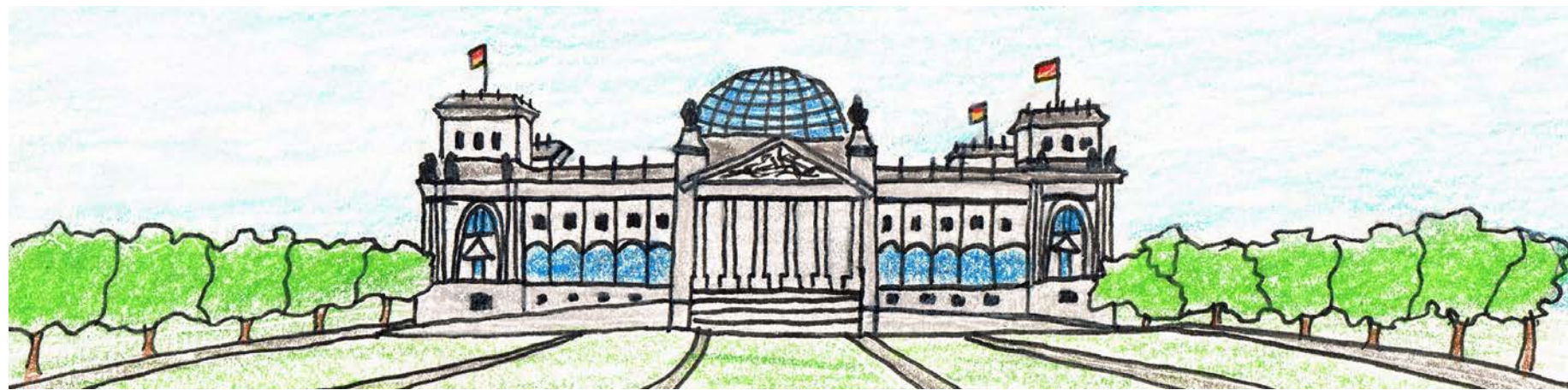
OBJECTIVE
To develop an abstract model of The Reichstag by Norman Foster. The model must have symbolism using glass, wood, metal, and concrete.

CONCEPT
Sheet metal symbolizes the building being a sculpture of light and its sustainability.

Glass symbolizes bringing light into the heart of The Reichstag and the government being more transparent with the German people after the country's dark history.

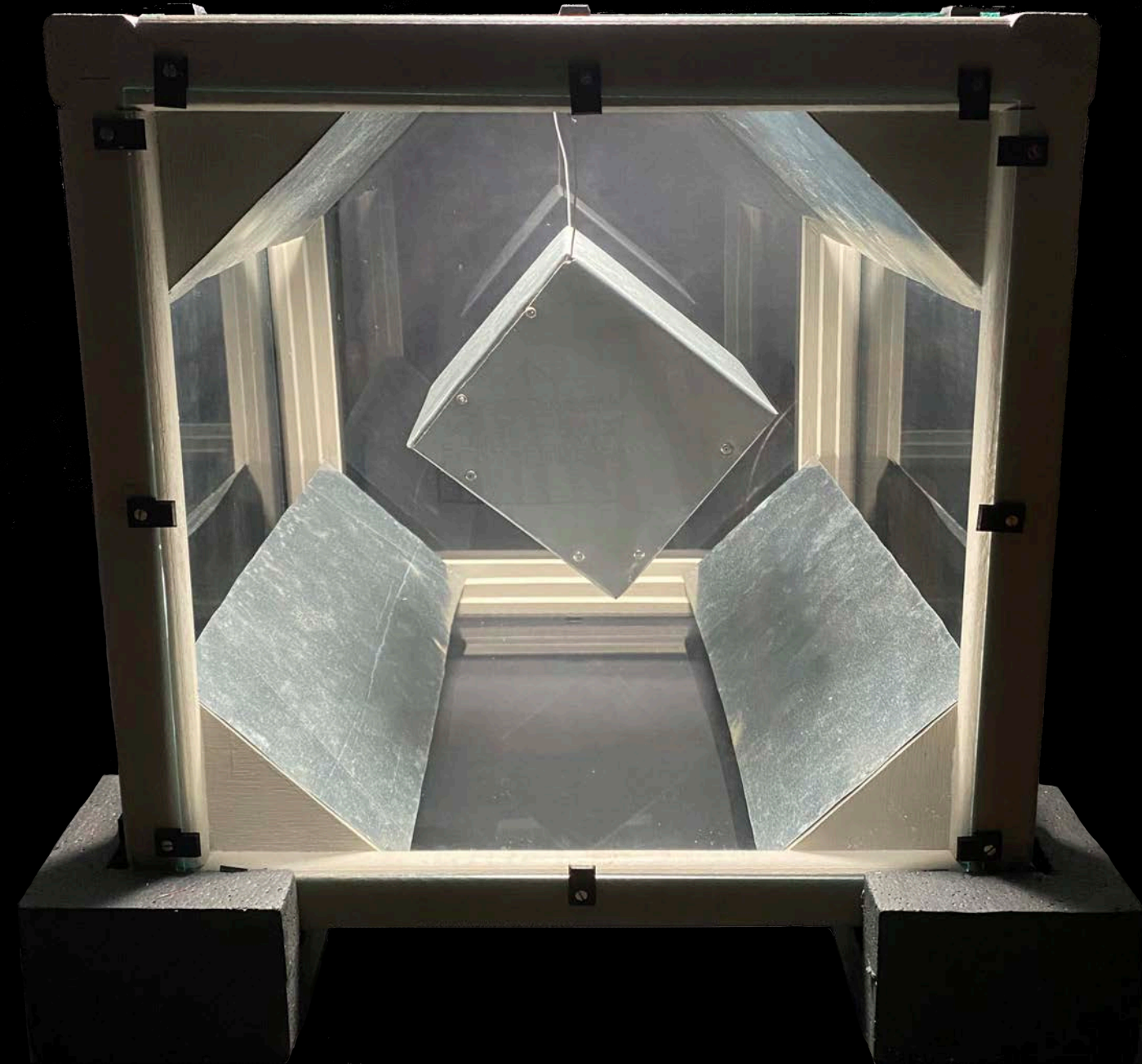
Wood symbolizes the new life that was given to the building after it burned down during World War 2 and defaced during the Cold War.

Concrete symbolizes the strength of the German government.



Concept Model

Final Model
2' High, 2' Wide, 2' Deep
250 Lbs.



INSPIRATIONS

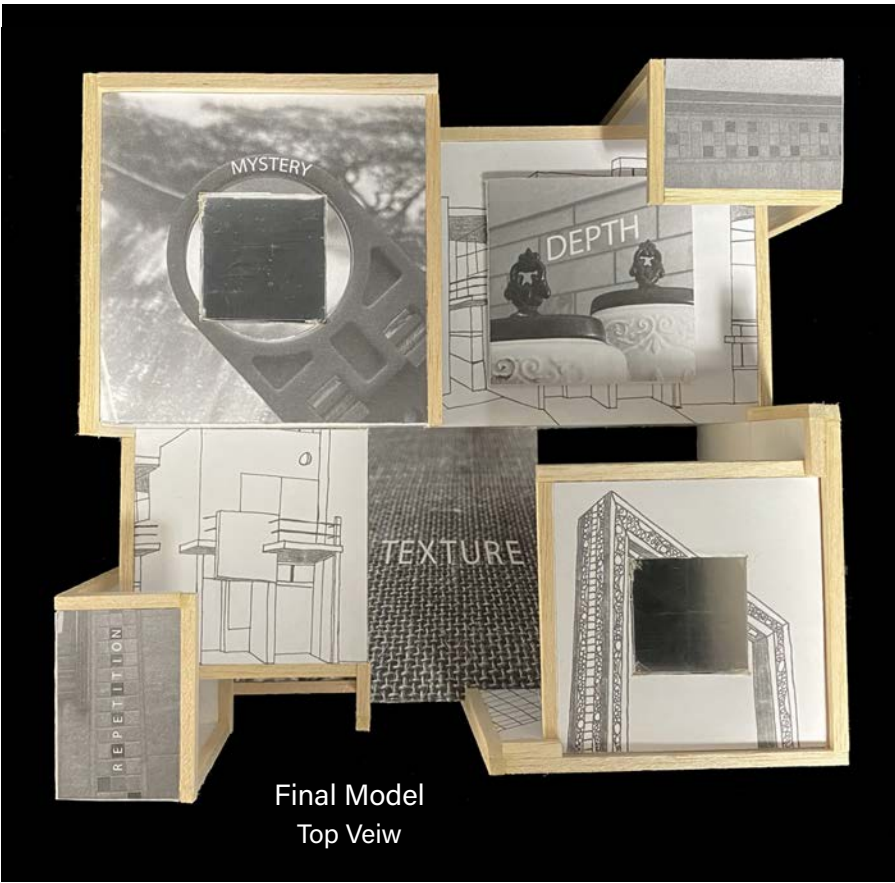
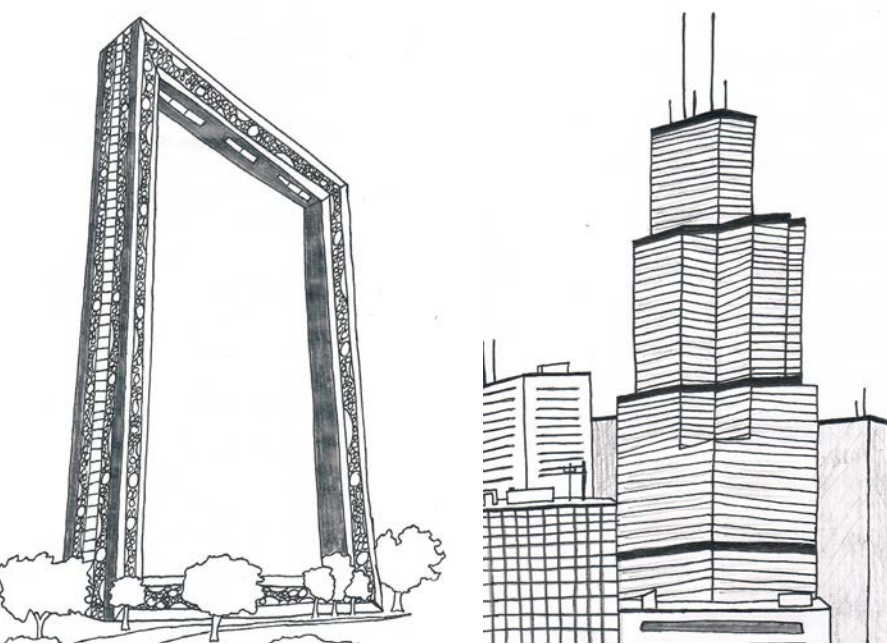
Professor: Mark Pearson | Duration: 3 weeks | Class: Arch 2201 | Year: Fall 2020

OBJECTIVE

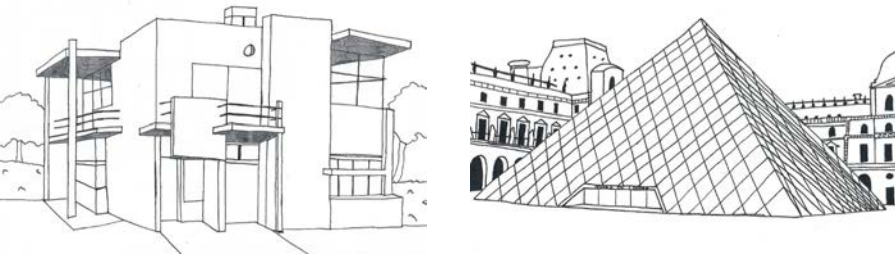
The objective of this project was to take five pictures of items that had architectural characteristics and draw five sketches of architecture. Using these images, sketches, text, and a found material and object, a 3-dimentional collage was made.

CONCEPT

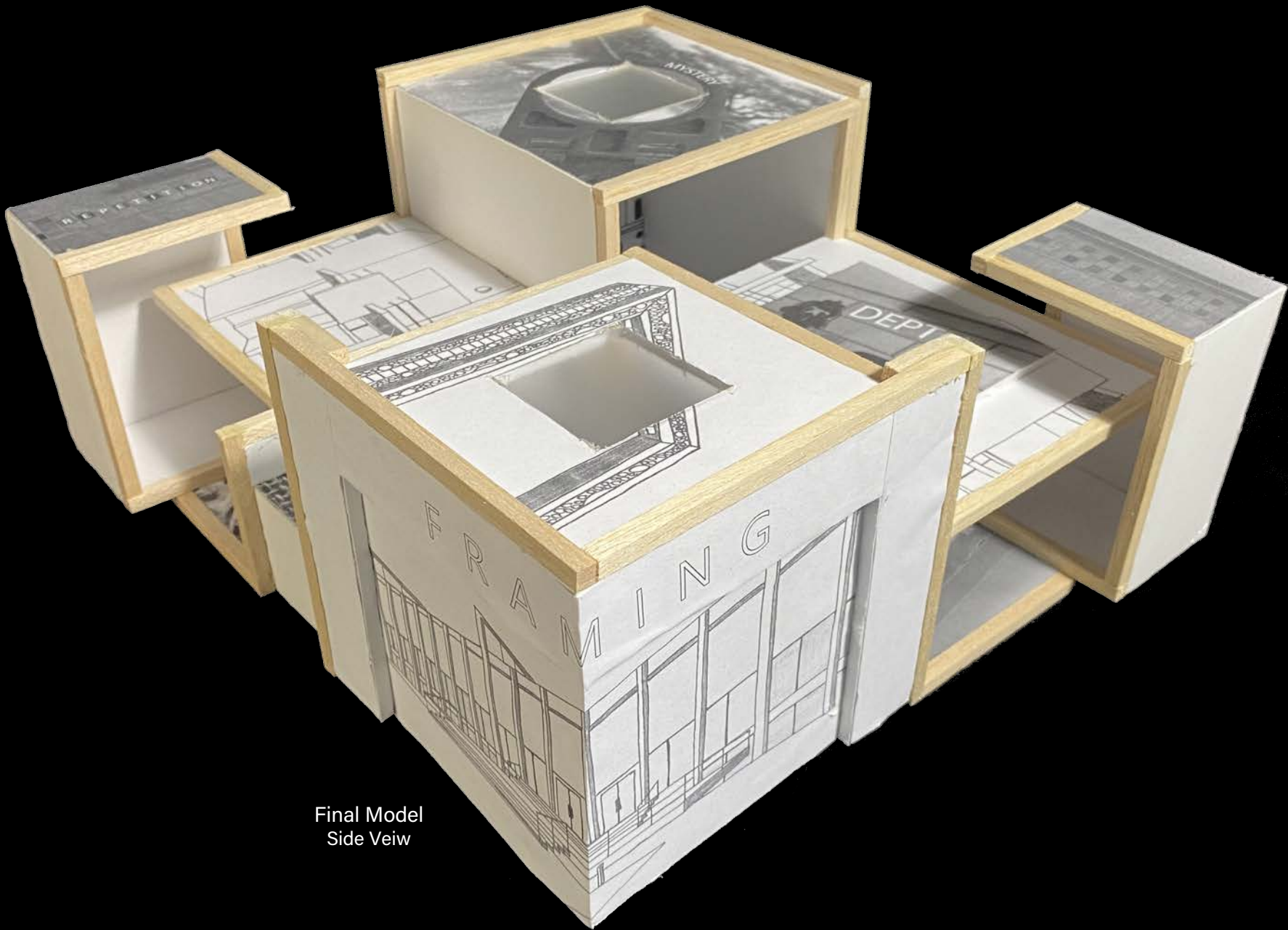
This project embodies the concepts of mystery, framing, and repetition. Mystery, along with framing, work together to create a notion of, "what is behind there?". By using many openings and layers, the model cannot be viewed at just one angle. All sides of the model must be explored and viewed to fully understand it. Repetition creates familiarity. Using constant vocabulary of squares and rectangles, the model's make-up is easily recognizable and understood.



Final Model
Top Veiw



Architecture Sketches



Final Model
Side Veiw

ECOLOGY CENTER

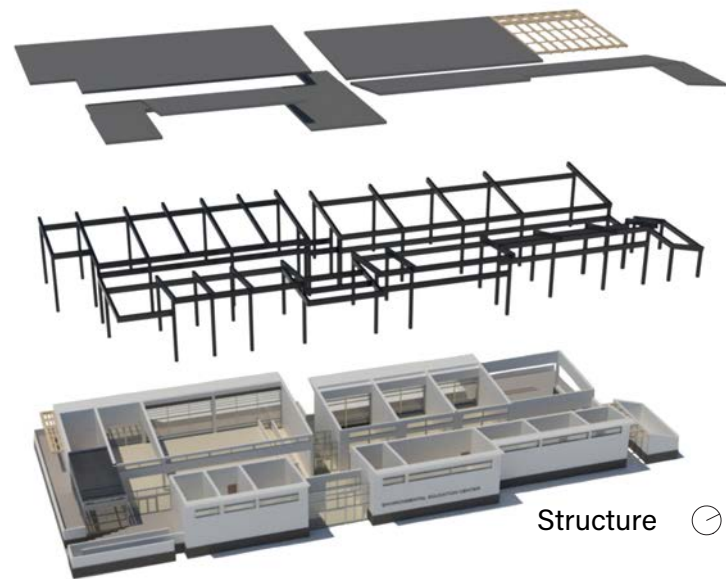
Professor: Mark Pearson | Duration: 12 weeks | Class: Arch 2201 | Year: Fall 2020

OBJECTIVE

To create an environmental education center located on the Russel R. Kirk Prairie. The building must provide spaces for education, offices, a cafe and exhibit.

CONCEPT

This building embodies the concept of seclusion. By only having viewing widows on the west side of the building, it controls how visitors view the prairie. Additionally, by adding dense landscaping adjacent to the building, it creates a barrier between the campus and the quiet prairie. These design decisions help to give the feeling of isolation and remove distractions caused by the surrounding area. With the removal of distractions, having access to elevated views, and having ample outdoor space to get close to the prairie, visitors will feel connected to nature and have a better understanding of the landscape.



Structure



Floor Plan

Scale: 1/8" = 1'



Section A

Scale: 1/8" = 1'



Parti



Circulation



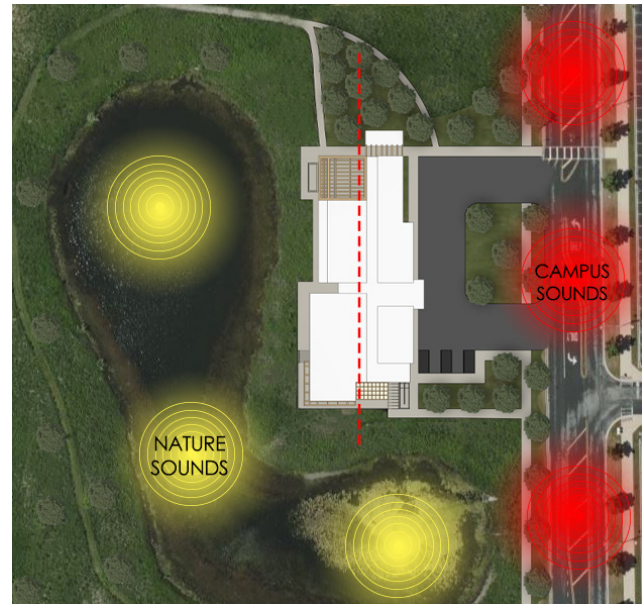
Concept



Site Plan



Site Context



Noise



Section B

Scale: 1/8" = 1'

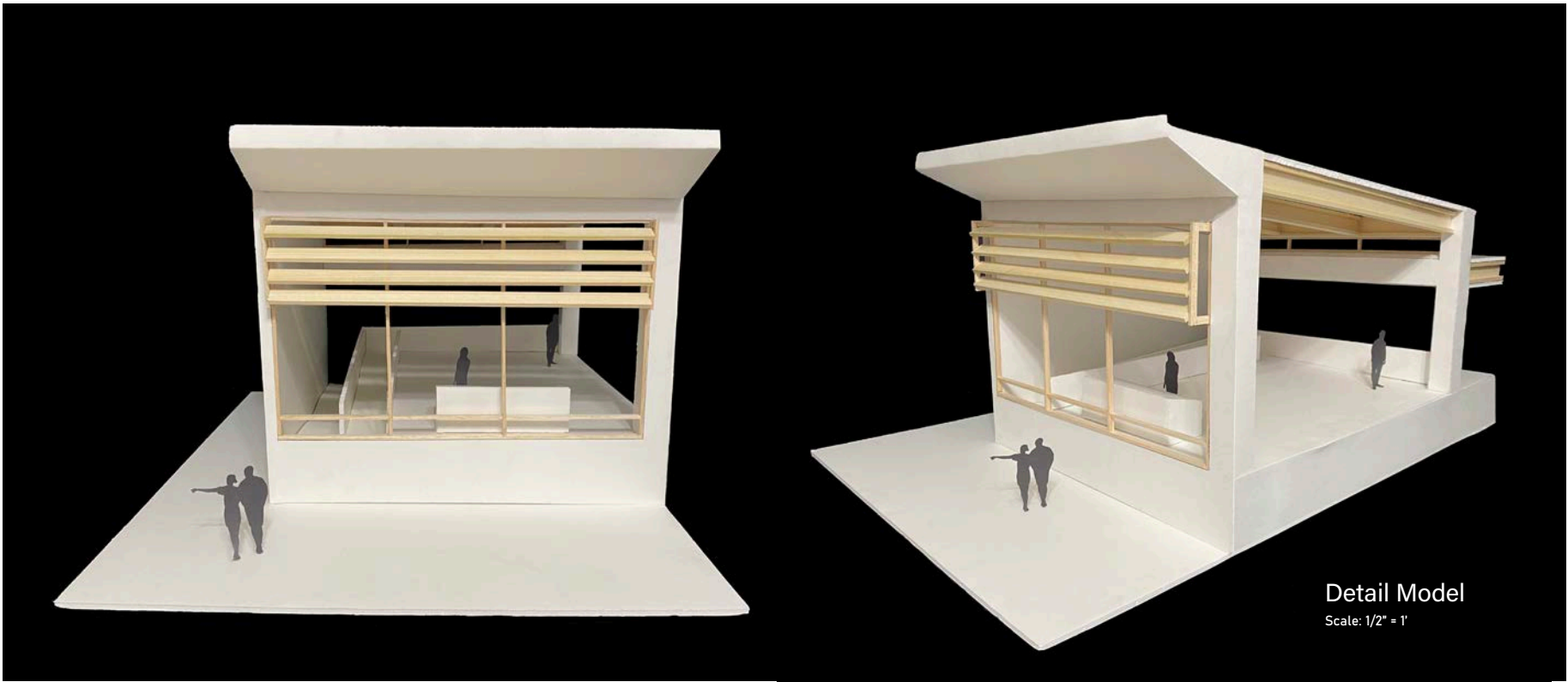




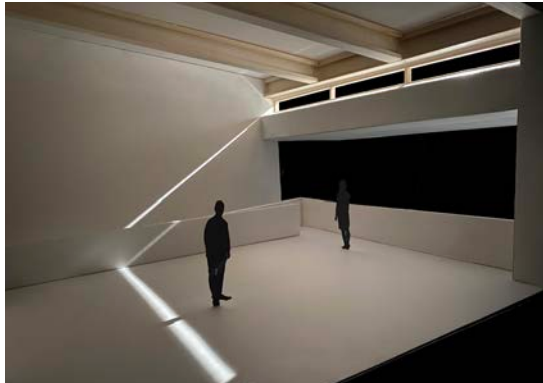
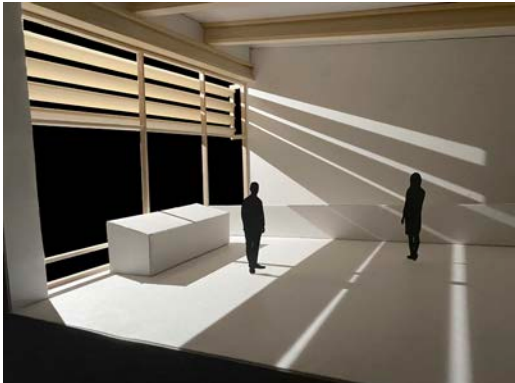
Exterior Renderings



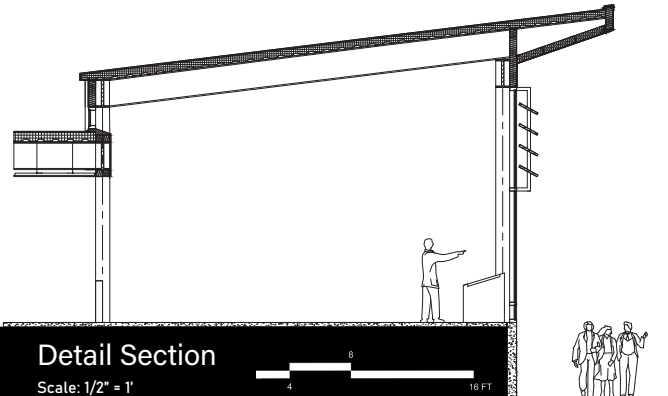
Interior Renderings



Detail Model
Scale: 1/2" = 1'



Interior Views



Detail Section
Scale: 1/2" = 1'



Final Model - Front
Scale: 1/8" = 1'



Final Model - Back
Scale: 1/8" = 1'



DIGITAL MODELING

Professor: Mark Pearson | Duration: 8 weeks | Class: Arch 2220 | Year: Summer 2020

OBJECTIVE
Learn 3DS Max and use those skills to create realistic computer renderings. Points of study consisted of construction and placement, how to use realistic materials, camera angles, lighting, and environments to create a scene.



3DS MAX - Farnsworth House Exterior Render



3DS MAX - Farnsworth House Interior Render



3DS MAX - Bauhaus Exterior Render



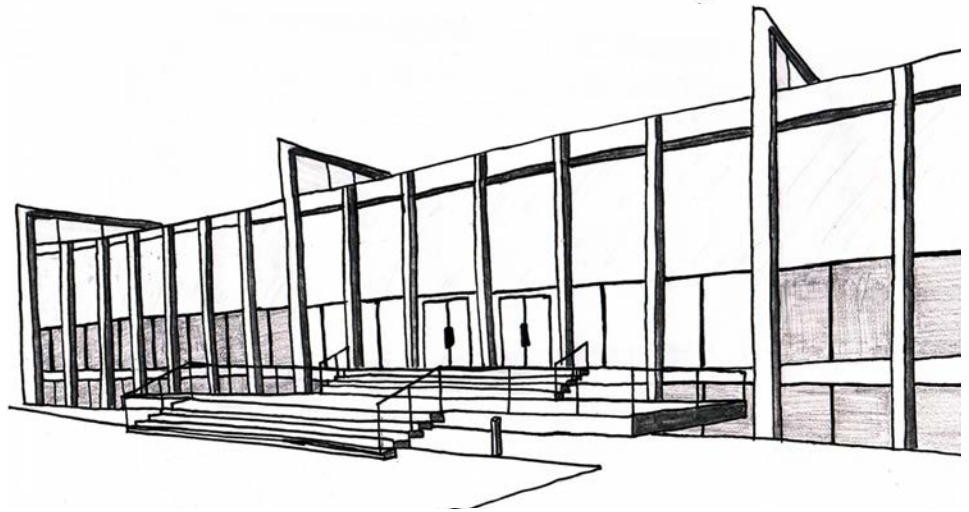
3DS MAX - Bauhaus Interior Render

S.R. CROWN HALL

Professor: Jane Ostergaard | Duration: 2 weeks | Class: Arch 1100 | Year: Fall 2019

OBJECTIVE

The objective of this project was to research a building that has great architectural significance and then create a scale model.



1/8th Scale Model