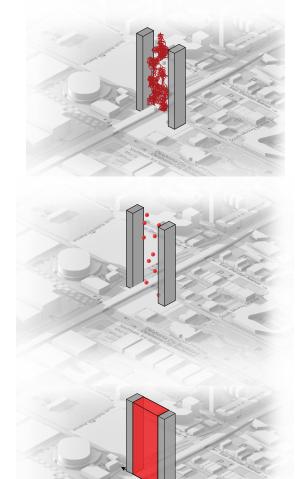
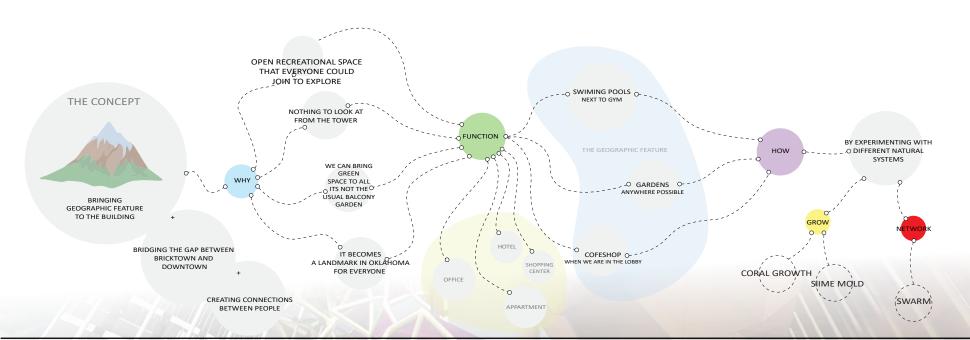


First Idea: Coral Growth Experiment











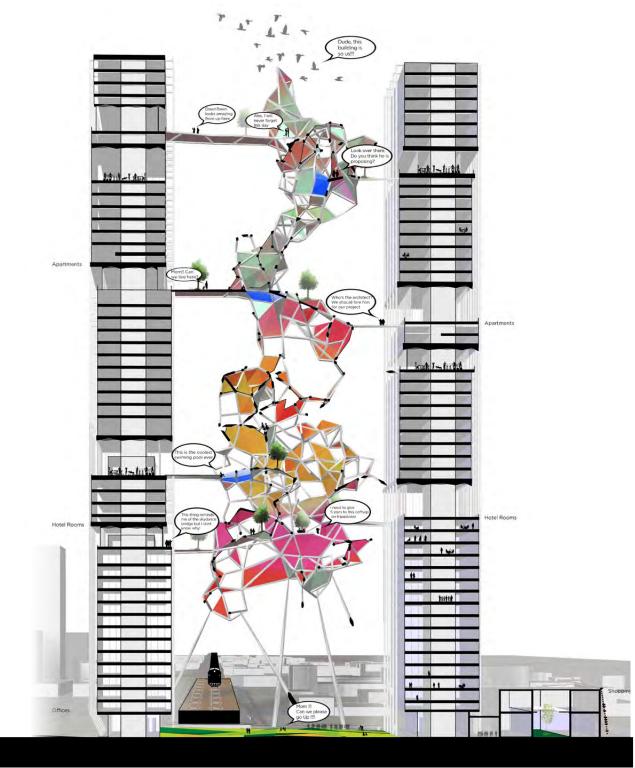
THE SITE PLAYS AN IMPORTANT ROLE IN THE FUTURE CONSTRUCTIONS OF OKLAHOMA CITY. IT CAN CHANGE THE CHARAACTER OF THE CITY AND ACT AS A MAGNET TO PUSH CONSTRUCTION TO BRICKTOWN.

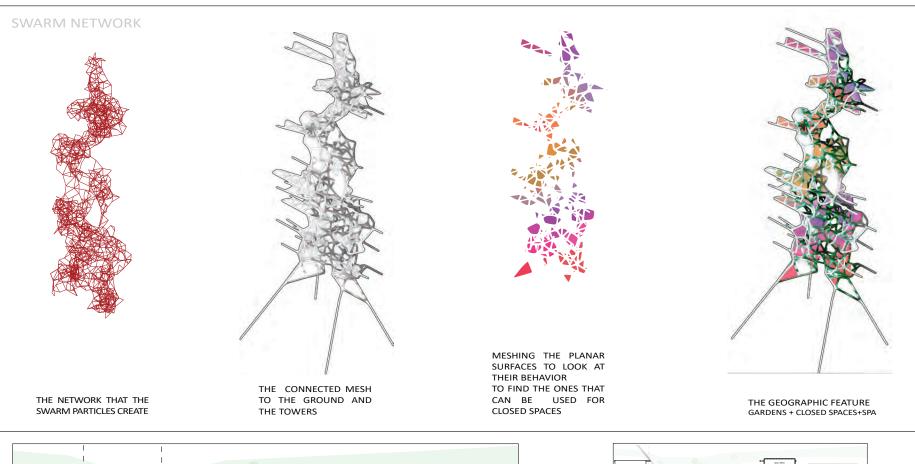


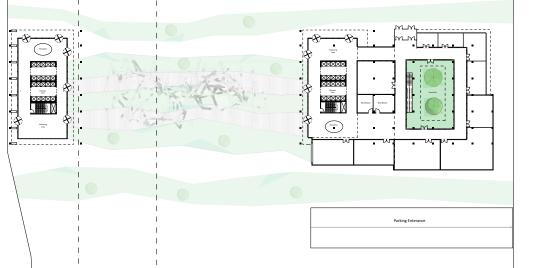
FROM THE SKYSCRAPER THERE IS NOT MUCH TO VIEW. THE GIVEN SITE HAS THE POTENTIAL TO BRIDGE THE GAP BECAUSE ONE SECTION IS IN BRICKTOWN AND THE OTHER IN DOWNTOWN.

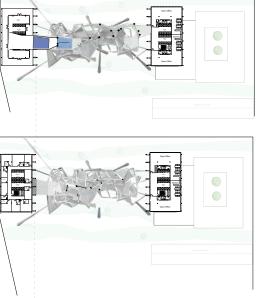


THE RAILWAY PLAYS A BIG PART FOR OBVIOUS GAP BETWEEN DOWNTOWN AND BRICKTOWN, HOWEVER THE FUNCTIONS IN EACH DISTRICT ALSO PLAYS A SEPARATE ROLE IN THE GAP BETWEEN BRICJTOWN AND DOWNTOWN

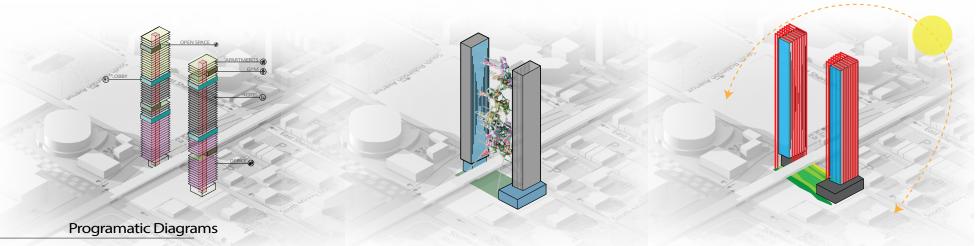














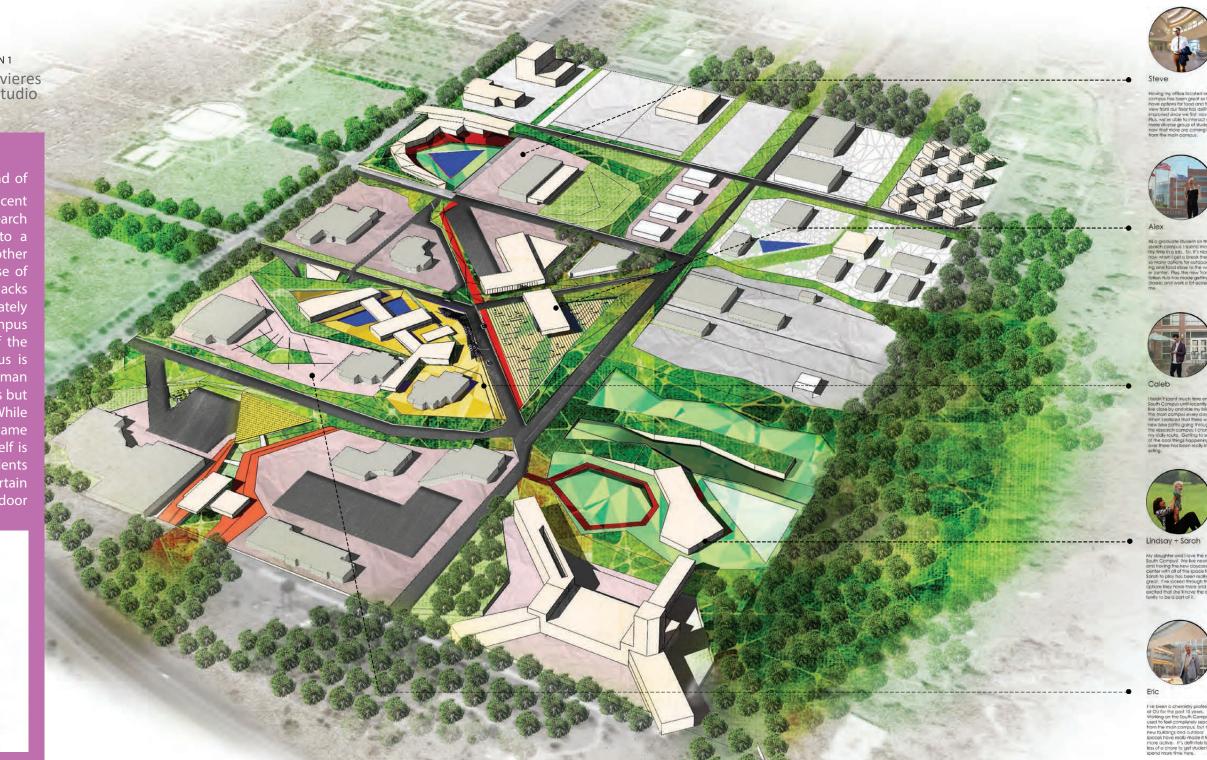
# THE PATCH ITERATION 1

Supervisor: Anderes Cavieres Third graduate design studio Fall 2017

### **Description of Problem Statement**

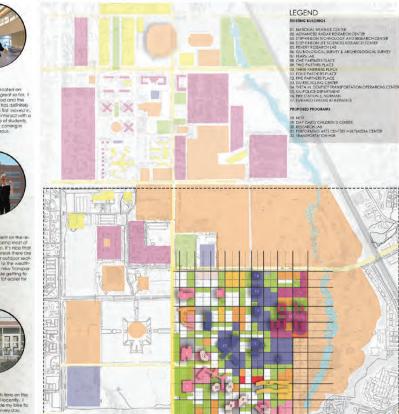
The Research Campus on the South end of the University of Oklahoma is a recent development that caters to the Research needs of OU. The campus is home to a handful of research centers along with other office spaces. Though the main purpose of the South Campus is research, it lacks neighborhood involvement and ultimately synergy that is so vital in making any campus successful. Also, the disengagement of the South Campus from the North Campus is quite evident. One can see a lot of human activity on the North end of the campus but the opposite is true on the South end. While the numerous parking lots may be at blame to some extent, the research center itself is program that require researchers, students and other user groups operate in a certain

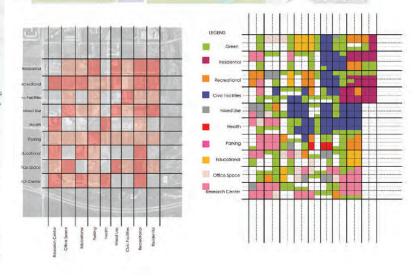


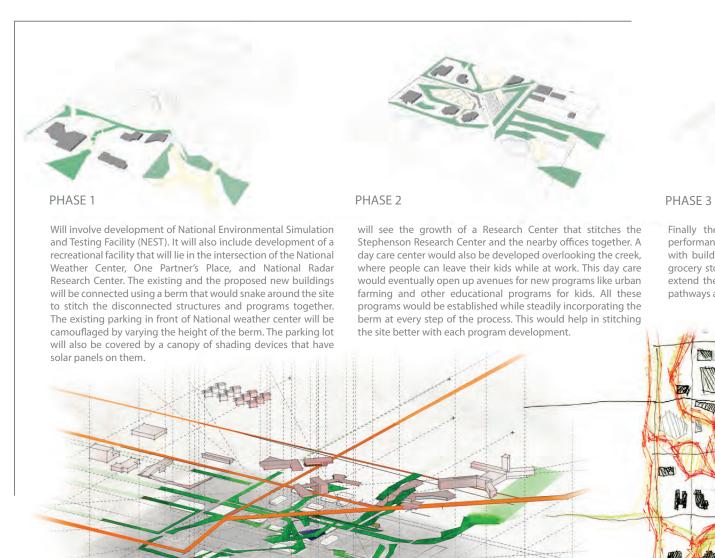












AXONOMETRIC EXPLODED

DIAGRAM



Education

Research



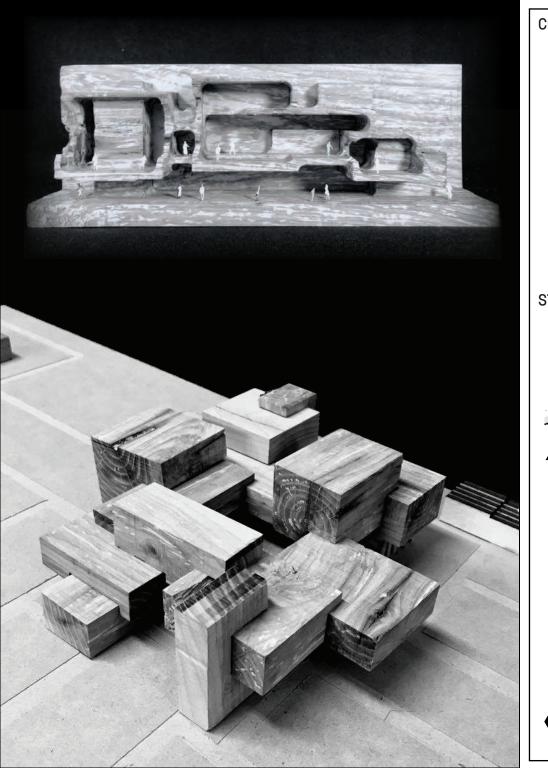
To help determine the programmatic arrangement of future buildings, a matrix has been developed based on the existing environmental, social, economical and site conditions. This also takes consideration the logical adjacencies of the programs, new and old. The initial matrix focuses on the major programs and the connections that they could have by putting them into three categories namely- Must, Should and Maybe. The matrices that followed, further helped in breaking down the programs based on the essence of the site; Berms.

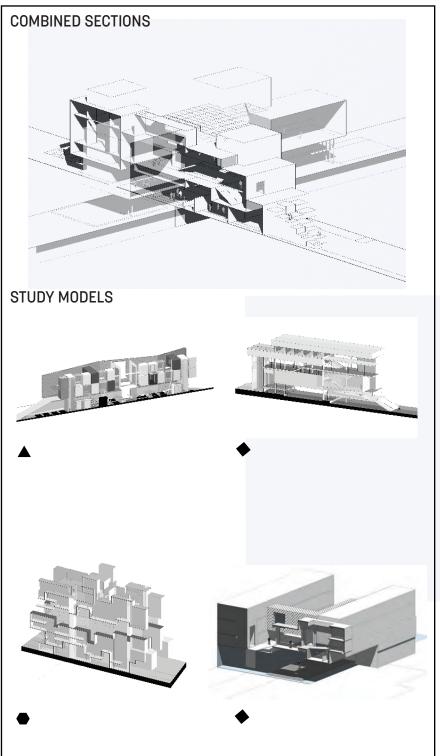


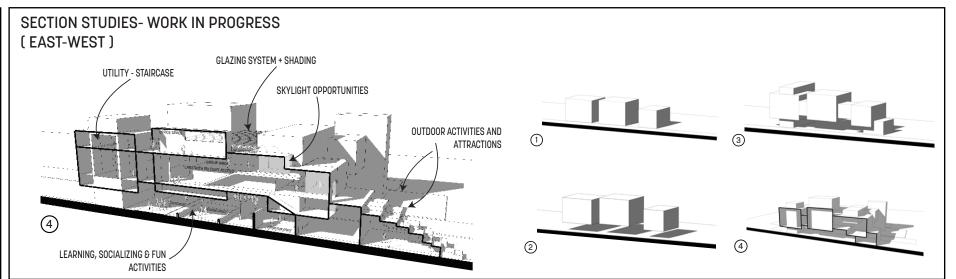


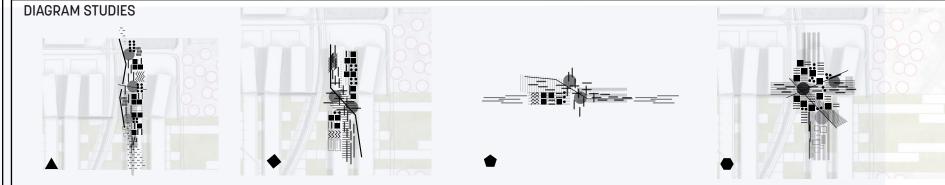
PERFORMING ART CENTER OFFICEES OFFICEES COMMUNITY HUB

NEST



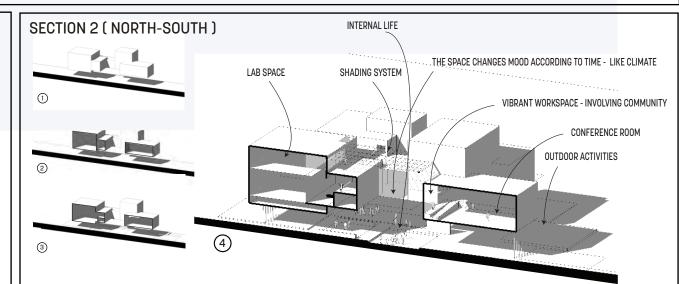


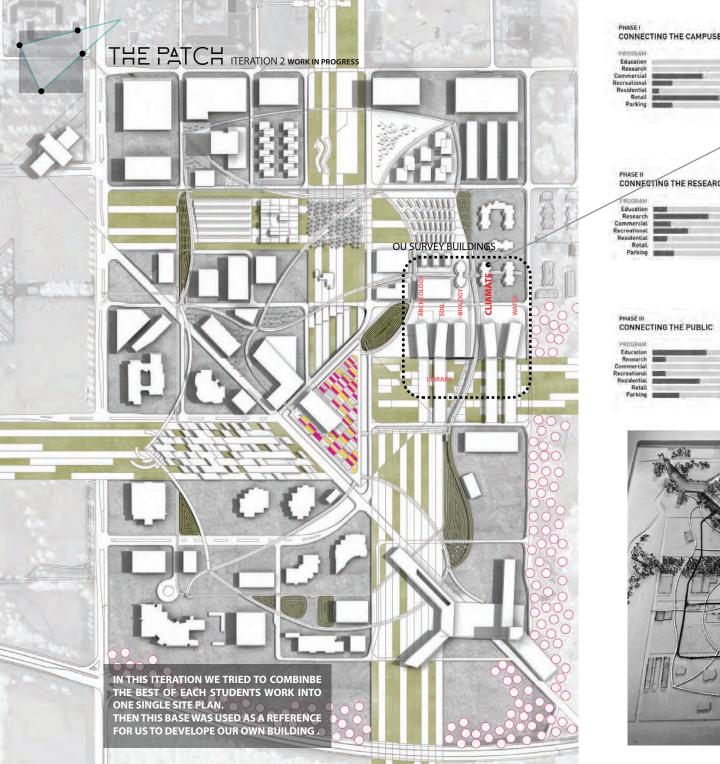


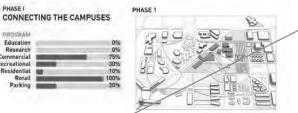


#### **DESGIN CRITERIA**

In this exercise we were asked to come up with an adjacency diagram which was presented by patterns rather than the traditional bubble diagram. The next step was to convert those diagrams into sections with respect to the site and similar precedents that we looked into. After coming up with two different sections and an overall plan, we were asked to put them together and come up with a massing model. This exercise was done more than 5 times so we could produce different models and look at the different conditions that they would create.

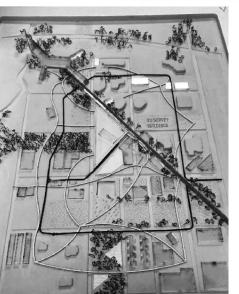






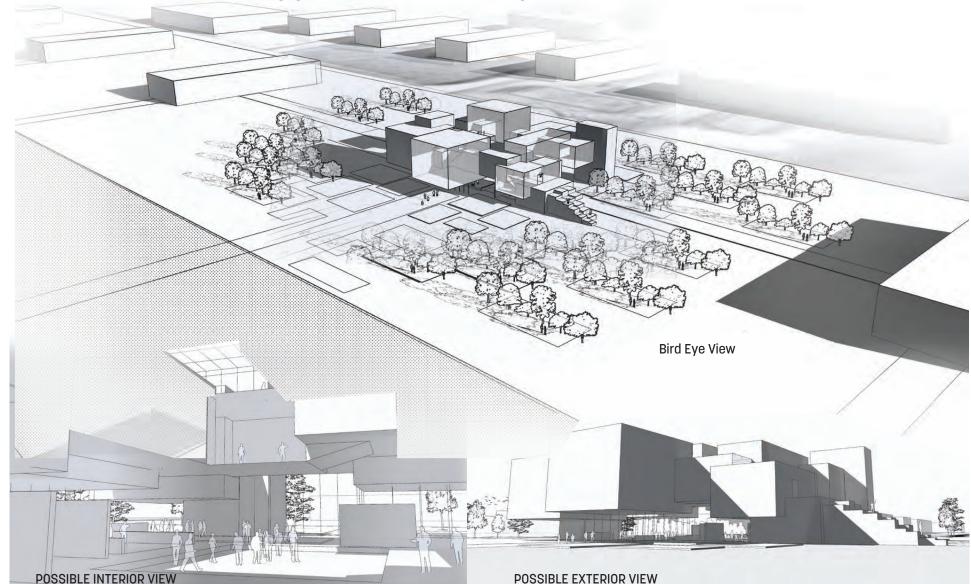






THE CLOUD OU CLIMATE SURVEY

Although the main purpose of the south campus is research, it lacks community involvement and ultimately synergy that is vital in making any campus successful. One of the factors that creates this lack of involvement is the way that the research buildings are programed. They are self-contained with less transparency and attraction to the public eye. The climate survey building is trying to address this issue with mixing contradictory programs together. Not only is the building responding to the researchers needs, but also it attracts the surrounding community due to its exhibition space, community hangout spots (indoor and outdoor), reading rooms, and coffeeshop. In the climate survey building the public and private research areas are distinct yet merged together so that people can interact, socialize, learn and enjoy being there. The main force driving the core idea of the architecture was the tectonic behavior of the clouds which creates translucency and the always change factor. The idea of the building comes from the tectonic behaviors of the clouds, the translucency and the always changing factor were the two main forces driving the core ideas of the architecture.



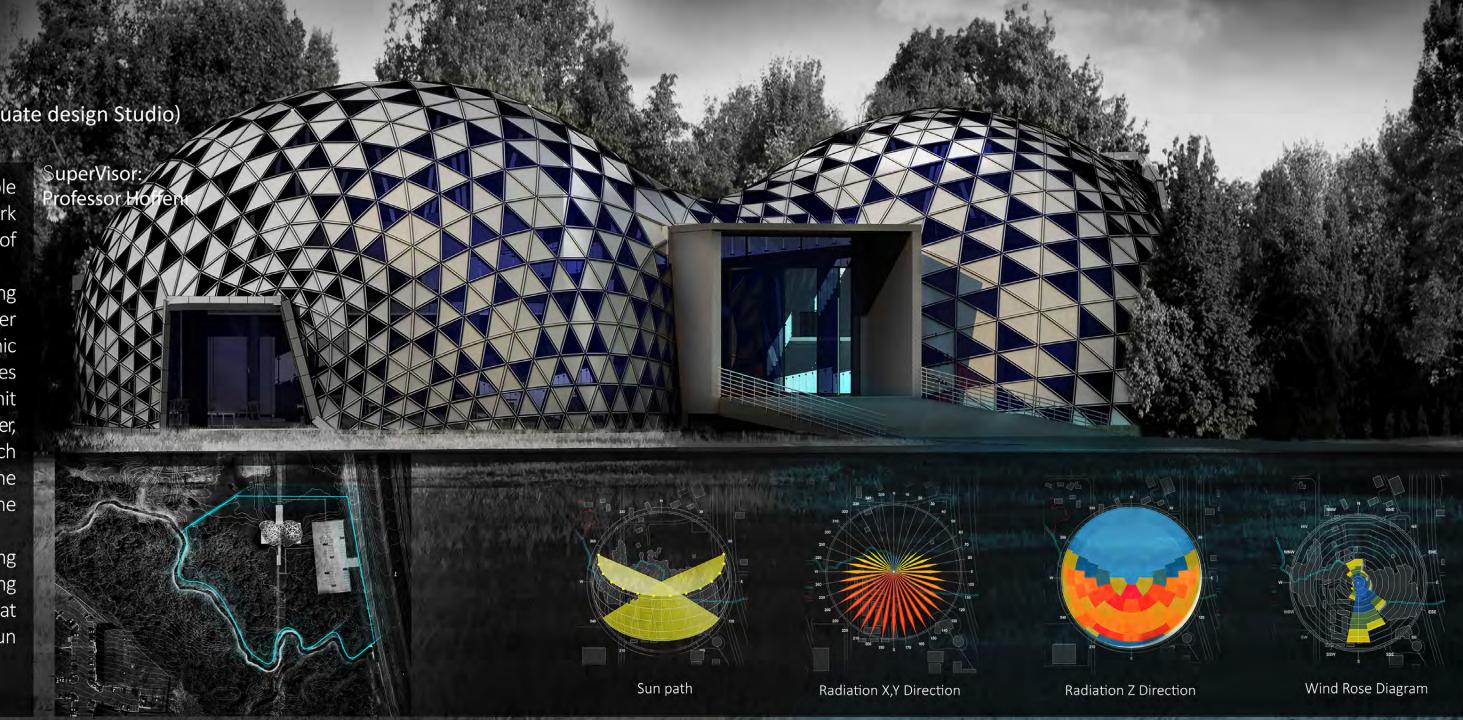


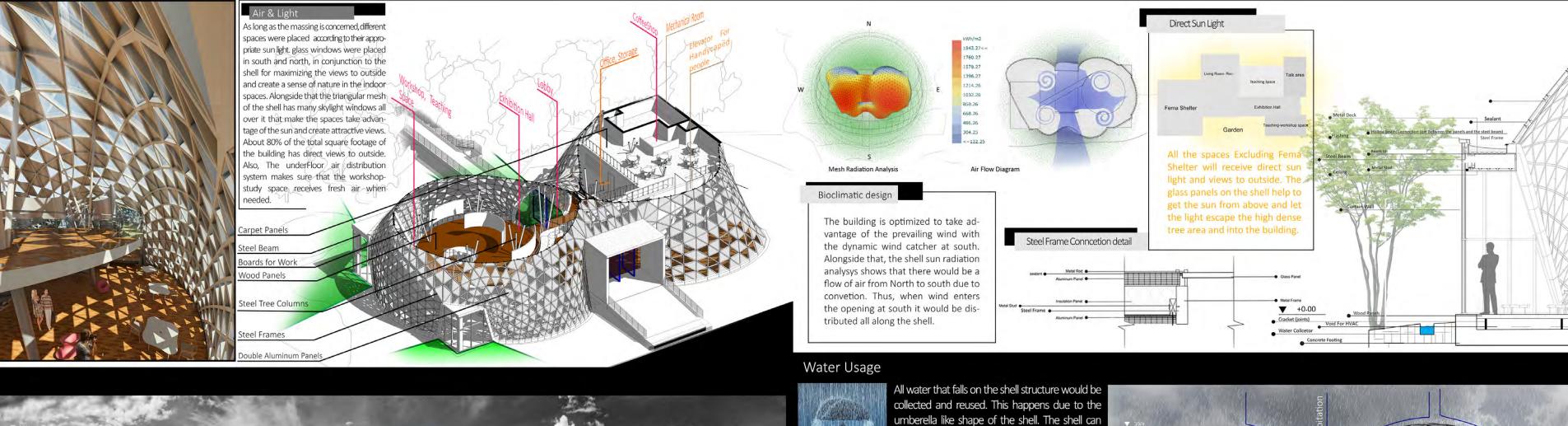
(COTE Competetion + First Graduate design Studio)

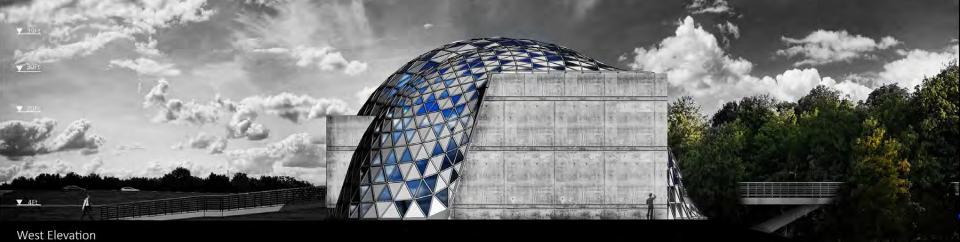
Norman visitor center is a place for big ideas. People would gather in this building to share ideas, work with each other and learn about the values of collabration.

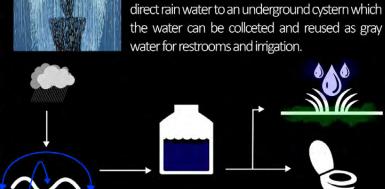
The design analysys started with bubble diagraming and how each space was connceted to the other according the appropriate sun light. Then an organic canopy like shell which would blend with the trees and gather all the spaces together in one solid unit was made. The shell brings all the spaces together, including a 1500ft FEMA shelter. This approach maximizes the visual communication among the people inside and create a unique experience for the users.

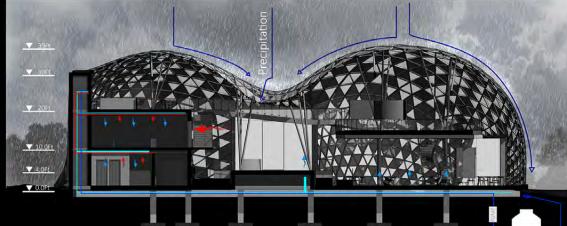
Alongside that, the dynamic shell helps the building to take a better advantage of the wind, collecting rain water. The triangular glass panels create great views to outside trees and also make sure that sun light reaches all the section's of the workshop.

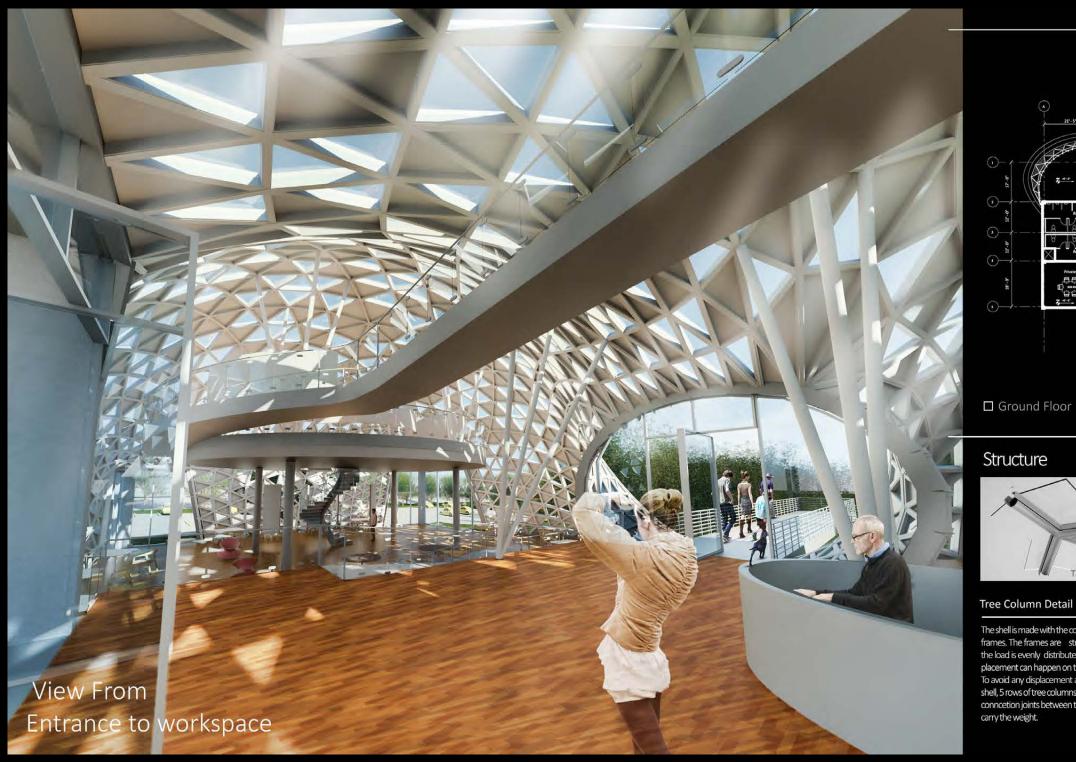


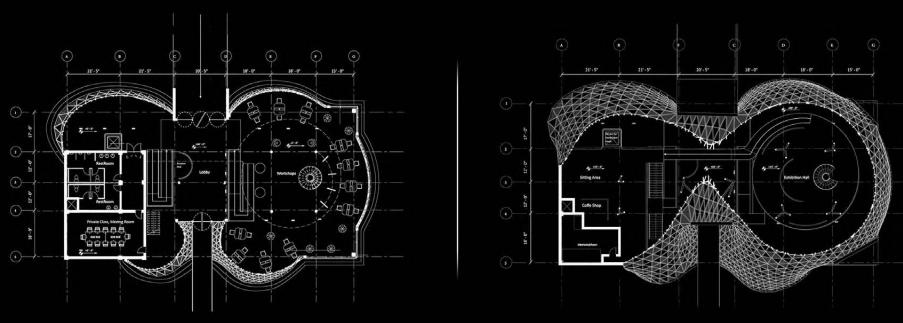










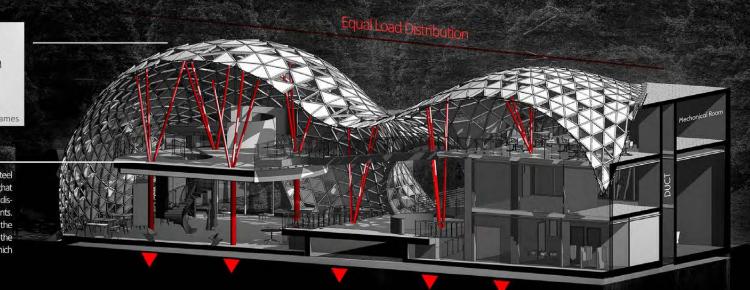


## Structure



#### Tree Column Detail

The shell is made with the conncetions of triangular steel frames. The frames are structural and make sure that the load is evenly distributed on the shell, however displacement can happen on the most curventure points. To avoid any displacement and carry the load from the shell, 5 rows of tree columns were used. Also there is the conncetion joints between the slabs and the shell which carry the weight.



☐ Second Floor

What might heaven look like in your architectural discipline eyes?

