Location: York University main campus, Toronto, Canada.

Project: a new student center with an area of 140,000 SF

Date: Summer Studio ARCH497. June 6- July 25

Project details:

The York university department of Architecture and Urban planning released this design competition for Architecture firms in North America. We, at IIT, have contacted the administration of York university and obtained all the RFQ documents and client data.

York University Student Center



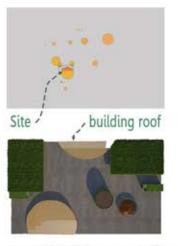
Main Atrium/ Lobby

Looking at the gathering spaces on campus, we see that a series of nodes exist around the site already, so I interpreted those points in my building as atriums cutting through my building mass that perform to welcome students in to the: building, expose them to the rest of the campus, and: to allow them to reflect inward within the private, more quiet program spaces:

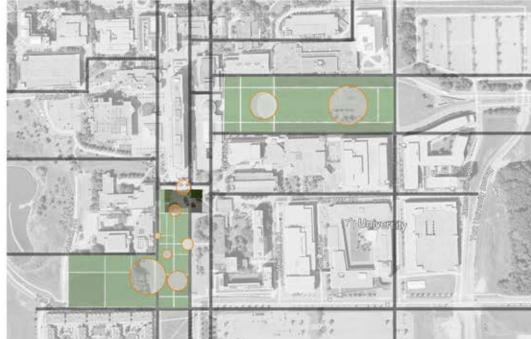


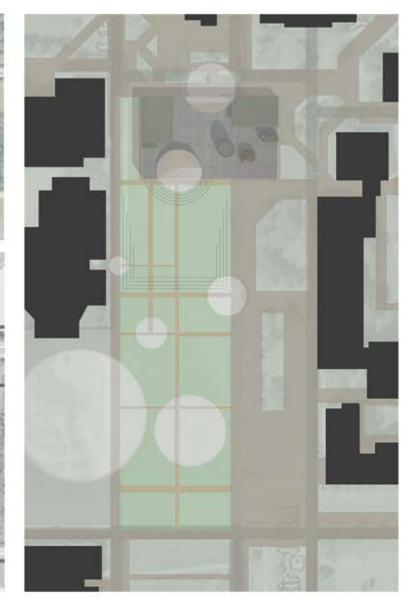
Site nodes and circulation analysis:

1ST phase-Analysing the site: York University Student Center







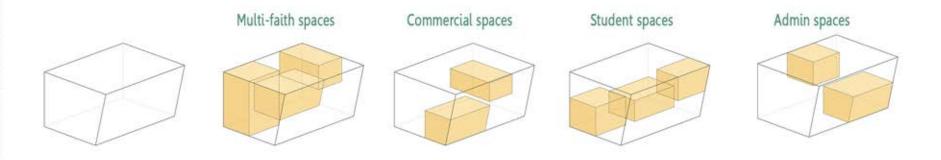


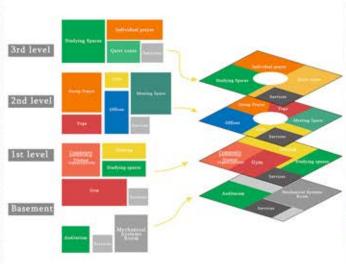
2ND phase-Reseaching the program:

This student center is a combination of hybrid functions that adress the physical, phsycological and academic aspects of student life on York University campus.

1/4 of the building is a multi-faith center that accomodates the 44 religions on campus.
1/2 is student spaces
/Gym-studentorganizations-studying spaces-quiet zones and convention spaces/
1/4 of the building is administration based or commercial areas and services.

Program and spaces analysis



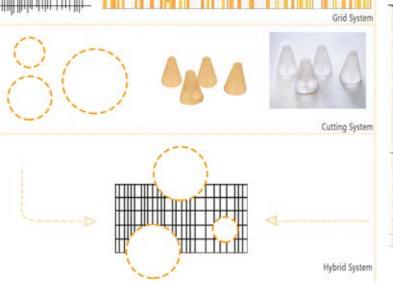




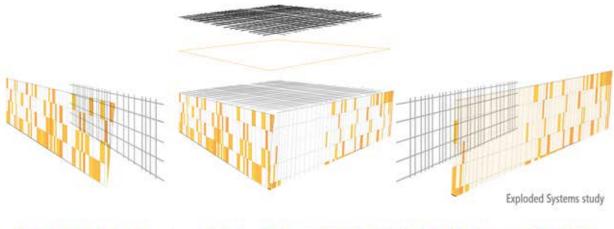
Gird analysis

The two systems of the building interact to form a new system that shows in the plans, landscape and elevations. A straight irregular grid and an arbitrary cutting system that ac-knowledges orientation only.







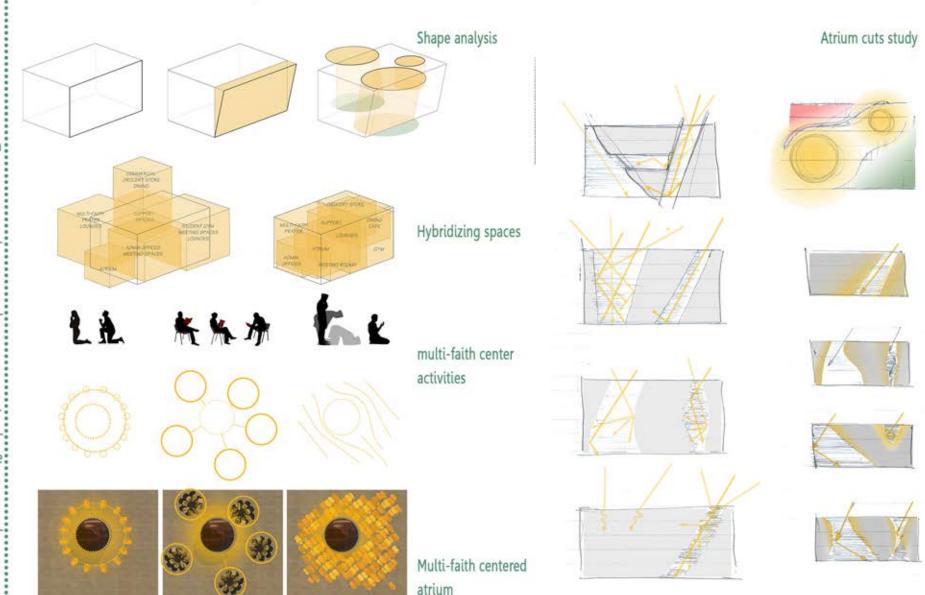




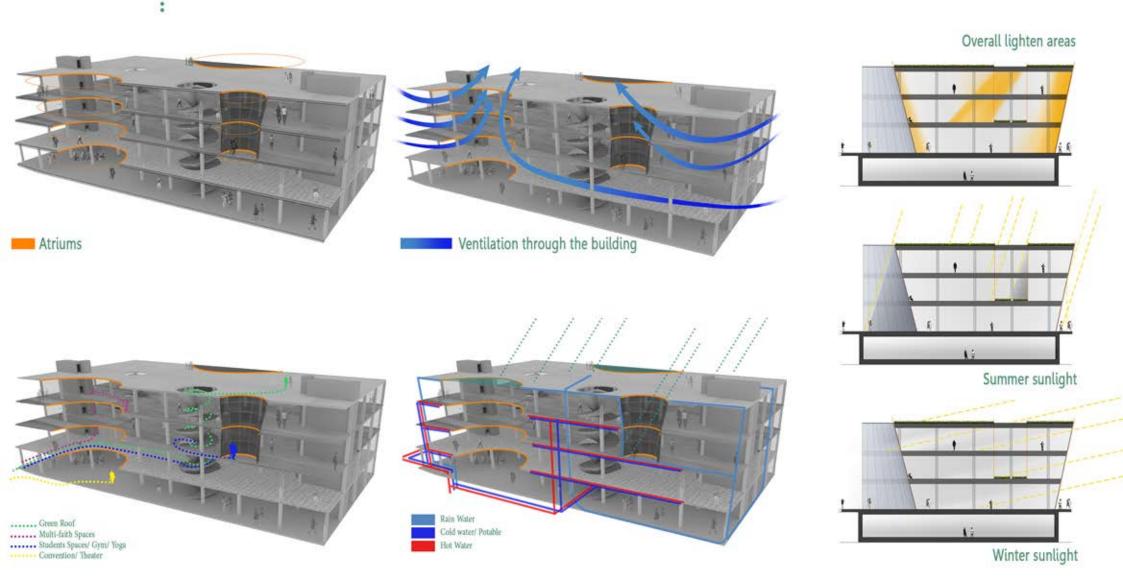
3RD phase-Designing the experience:

The design pf the project focuses on cultivating energy through interactions. Those interactions are maximized through atrium cuts that perform in diverse ways and allow for the interaction of users and programs as well as building systems. They harness and cultivate the energy coursing through the building through the interactions that happen within it.

The Atriums do not only perform socially, as gathering spaces and revealing interactive vistas through the building, but also perform from an energy standpoint by allowing for natural ventilation and natural lighting.



4th phase-Measuring the performance:



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Layering and detailing

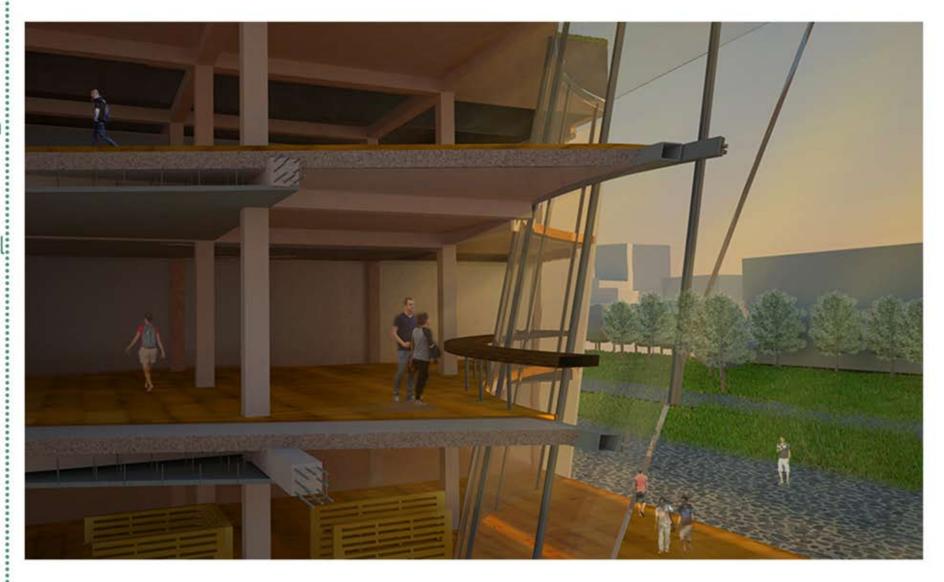
A full building section along the (North-South) axis, reveals the relations between the interiors and the exterior, the transparencies and the materials, plus the floors pri-vacies and function uses. It also shows relationg to site and to adjacent buildings on campus.



4th phase-Measuring the performance:

Structure detailings and finishings

A portion section cutting the entrance, second and third levels. This section shows a high level of structure details and floor to ceiling finishes. It also presents materiality and light exposure at the north facade and main entrance.

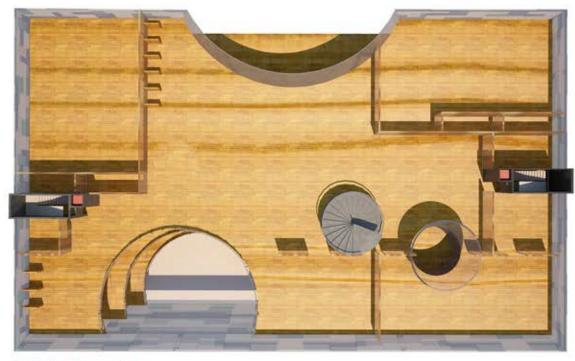


5th phase-Detailed Plans:

The 3D plans show the interior walls and main vertical circulation cores. They also show the relation to the skin of the building at every floor and the shades provide a sense of the height of every interior element, and the materiality of the floors and walls.

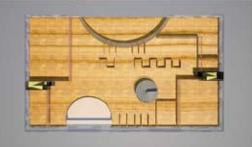
The 2D plans show the structural and design grids along with the interior spaces.

York University Student Center



Third Floor plan

First Floor plan



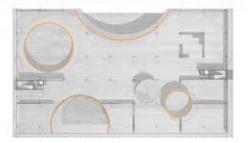
Second Floor plan



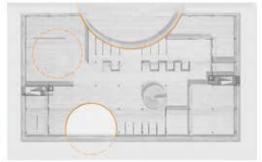
Autocad detailed plans



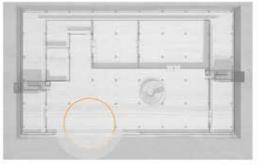
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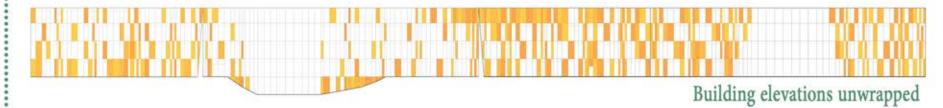


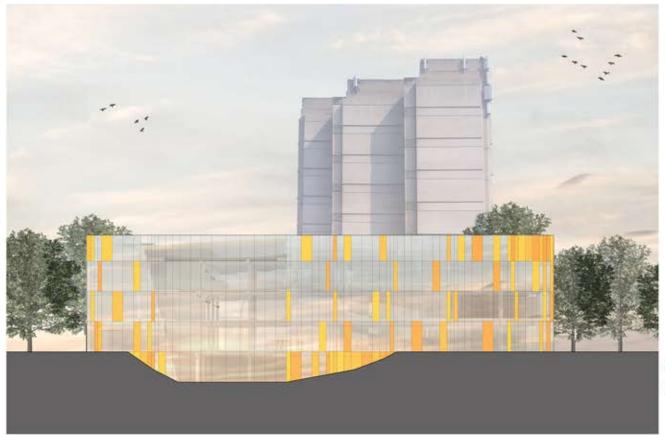
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ing:

The building design is a combination of two main systems, a straight grid that dictates the design and the structure of the building, and another system represented by the random "Cuts" through the mass of the building to create the Atriums. The skin of the building is not different from this process, a straight grid that reflects the interior priva-: cies and uses, then the atrium cuts perform similarly to create a clear visual extent along the facade.

6th phase-Skin of the build- York University Student Center





South Elevation Day View

6th phase-Skin of the building:

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Perspectives:

Top Right: Exterior Prespective shows the appraoch to the building from the Campus center (NE)

Top Left: Exterior Perspective shows the Entrance (NW)

Bottom Left: (Cover Photo) Interior Perspective of the biggest atrium in the building showing relations between users on different floors practicing different activities.

Bottom Right: Interior Atrium volume light into the multi-faith center.







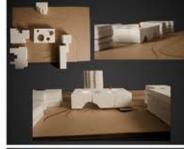


Interior Persective
One of the multi-faith
rooms with natural
light coming through
numerous smaller and
more arbitrary oppenings in the ceiling to
create a warm and spiri
tual atmosphere for
those practicing meditation or prayers.



Study Models,
Analysis of the shape,
the atriums, light exposure and shades.
Model photos in the
center analysing structural system.

















Section Model
Scale 3/8"
These shots show the floor to ceiling height, people occupying the spaces of the building, transparencies of the facades on the interior and the exterior and the relation between different floors.







Section Model
Scale 3/8"
These shots show the facades and the atrium glass roof patterns.
The solid and the transparent sheets of glass on the facades control the light exposure in

different spaces around

the day.









Section Model
Scale 3/8"
These shots show some of the activities that shall take place in the student center, and the atrium glass roof pattern and reflections.







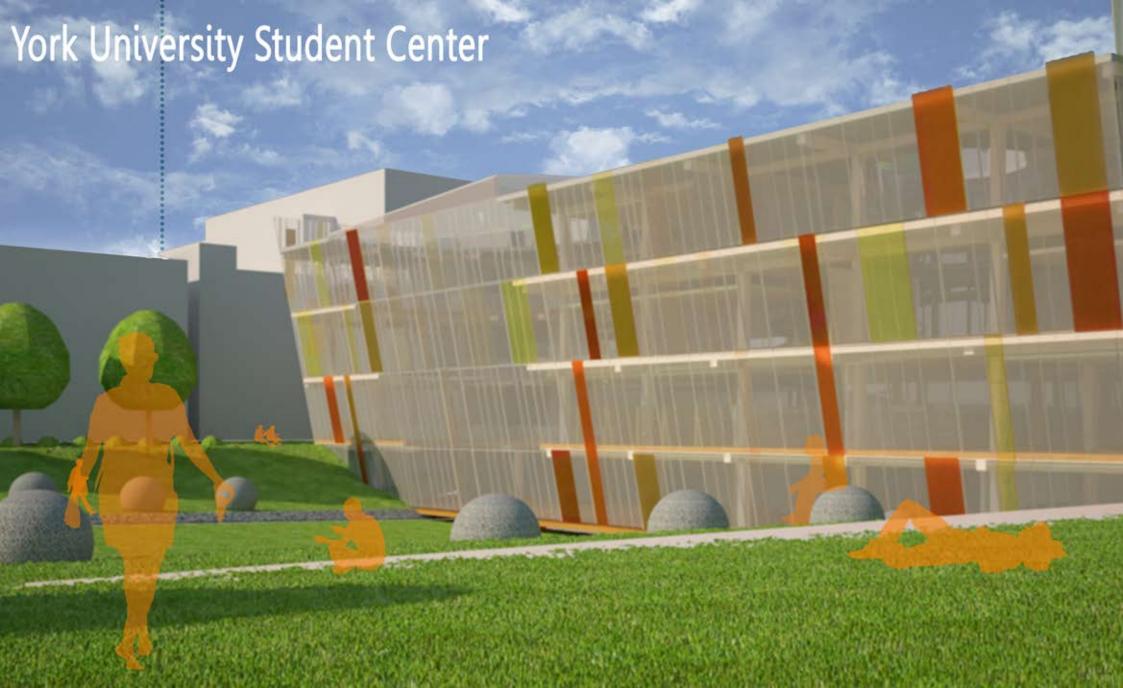












Gird analysis

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