INTRODUCTION
The last project you will be designing will be a sacred building on the Wentworth campus. Before beginning the design process, we will investigate precedents by noted contemporary architects such as Tadao Ando, Le Corbusier, Peter Zumthor and Eero Saarinen. The objective is to analyze and visually represent important architectural aspects of the building in order to help you start thinking about the design of your sacred space.

To begin your investigation, you should ask the following questions: How do the qualities of orientation and siting impact the quality of light? How is circulation and program employed in the case study? How do materials and textures play into the buildings final design? What is the interaction between structure and space?

ASSIGNMENTS
SELECTING PRECEDENTS
Students will work in teams of two. You will select an architect from the list below:

In Concrete
(1) Tadao Ando - Church of Light
(2) Le Corbusier - Ronchamp
(3) Steven Holl’s - St. Ignatius Chapel

In Stone / Brick
(4) Peter Zumthor - Thermal Baths
(5) Kengo Kuma - Stone museum
(6) Eero Saarinen - MIT chapel

In Wood
(7) Peter Zumthor - St. Benedict’s Chapel
(8) Peter Zumthor - Roman Archeological Museum
In Steel
(9) Allmann Sattler Wappner - Bauen and then Herz jesu Kirche, Munich

ANALYSIS
Due at the end of class 11/06
Once you have your building, you and your partner will begin the research. You should have at least three sources. Only one can be from the internet. Please submit your bibliography to your professor by the end of class.

Coordinate with Librarian next year.

You should thorough read the text and then begin your investigation through analytical diagrams on trace. You may choose to analyze your precedent through sections, plans, elevations, and axonometrics. You should investigate topics such as parti, site, structure, circulation, program, passive vs. electrical lighting, materials, composition, public vs. private, axis, hierarchy, etc. You should have at least 8 diagrams by the end of class.

REPRESENTATION
Due Wednesday 11/08
Revise your analytical diagrams and be prepared to discuss with your instructor. You should be able to tell a story about your building through your diagrams.

In class on Wednesday, 3:30-5pm in the Annex Auditorium (Blount Auditorium), we will have a lecture on sacred spaces, and then discuss the presentation of the precedent studies.

BOOK PRODUCTION
Due Friday 11/10
You will produce a mock-up of your investigation in a booklet format. The spread will be 11”x8.5 landscape format. When the book is folded in half, the dimensions will be 5.5”x8.5”. Make sure every drawing has a label and written description of what you are investigating. Make sure your plans, sections, elevations, etc. are always on the same place on your page, facing the same direction and are at the same scale. Also check to see if your book has consistency in format, page layout and font.

You will produce two of these books: one to be handed in to your instructor and the other to be a shared between your peers as a resource for the design project.

You will receive a supplemental handout on the Yale binding method and instruction to use Adobe In Design.

PRESENTATION
Due Monday 11/13
You will produce your final booklet and present the analysis to the class. Make sure you are not just describing the diagrams on the page but instead, are telling a story about the building. Be prepared to submit the books to your instructor on Monday.

REQUIREMENTS
Students will be expected to:

- write a bibliography
- investigate precedents through diagrams
- present work through a journal
- work collaboratively in a team

OBJECTIVES
The aim of this investigation is to further develop analytical thinking and digital representation skills, and show an understanding of how the building’s parts make a compelling whole.

**GRADING**
This project is worth 5% of your total grade.

- Research
- Diagramming
- Analysis
- Presentation
PROJECT 3:
LIGHT AND PHENOMENA: A SACRED / MEDITATIVE SPACE AT WENTWORTH

A sacred place is one that commands a certain respect. Views of the building from afar, details of the materials and construction from up close, how the building touches the ground, and qualities of light and other phenomena convey how a space can be far from ordinary. These qualities affect the way the user walks into the building, direct you with the light and make one suddenly quiet and respectful.

The Church of the Light, Roman Archeological Museum, MIT Chapel, and Thermal Baths are examples of how sacred spaces can be embodied in a church, an interdenominational place of worship, an archival space, and a place for rest and relaxation.

As a starting point to the final project for this semester, you should draw upon the body of research just completed.

PROJECT
The trustees of Wentworth Institute of Technology have asked the department of architecture to design an interdenominational chapel in the northeast part of the Wentworth quad. This chapel should be a sacred place that provides a space that can be shared by different religious denominations as well as those from the Wentworth community who are not religious and just want a place for private mediation and communal gathering. This design should provide an architecture that does not preclude any person or group from entering and utilizing this space. It should not include any religious iconography in this building. Rather, your design should thoughtfully consider how the quality of light, orientation and site, procession, and materiality can create experiences that are profound and meaningful.

SCHEDULE
WK 1 Precedent Study
Develop Booklet

WK 2 Light, Structure, and Phenomena
Develop drawings exploring light as you enter the building
Develop ¼ or ½ model of the threshold

WK 3 Program, Site and Procession
Develop drawings exploring procession through the entire building
Develop plans, sections, elevations and continue to explore

WK 4 Design Development
Final models, drawings, or diagrams

WK 5 Diagrams and Presentation on Friday, December 8 and Saturday December 9
Final models, drawings, or diagrams. All work to be completed Thursday at midnight.

PROGRAMMATIC AND SITE REQUIREMENTS
This new building should be independent from Wentworth Hall with a 10 feet setback from Wentworth Hall.
The building should not be higher than the surrounding buildings.
The building should be one story with only a mezzanine(s). The code for an assembly hall requires that the mezzanine can be up to one-third of the main gathering space.
For an assembly space capable of holding more than 50 people, the mezzanines should provide two flights of stairs to the main assembly space.
The building and the main assembly space should have two exits.

<table>
<thead>
<tr>
<th>Reception / gallery space</th>
<th>200 sf</th>
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<tbody>
<tr>
<td>Coat room / space</td>
<td>50 sf</td>
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Main assembly space (include unfixed seating for up to 100 people) 800 sf
Place for musicians / spiritual guide in main chapel 150 sf
Place for musicians on a different level from Main assembly space 300 sf
Secondary meeting space 300 sf
Mechanical 125 sf
Storage 70 sf
Unisex handicapped accessible bathroom that allows for cleansing for religious purposes 125 sf
(consider the Northeastern Chapel)
Total net program = 2120 square feet
Total gross program = 3000 square feet (includes circulation)

Space outside of building for gathering

OBJECTIVES
The aim of this project is to gain an understanding of
• Light and phenomena
• Programming
• Procession
• Structural language
• Analytical diagrams
• Visual representation

GRADING 35%
This project is worth 35% of the course.

REQUIREMENTS
Students will be expected to develop their work through the following design methods:

• Drawings in black and white exploring light and phenomena
• 1/4” or larger scale model exploring structure and tectonics
• Plans, section, elevations
• 1/16” analytical diagrams

SITE
The site is located in the northeast portion of quad in the Wentworth campus. See the attached site plan. Your instructor will also pass around a digital file of the plan.

For a campus map, refer to the following site: http://www.wit.edu/pop_campusmap.html.