



ARCH 3612 Design VI Housing Studio

Description:

An advanced design studio examining the significance of public housing. Students research, evaluate, analyze and investigate multi-family housing and urban redevelopment, and propose an exploratory approach to the planning and delivery of housing. The final project consists of designing high density mixed-use housing and public space with community amenities.

Schedule:

The semester is a total of 15 weeks. There will be a substantial amount of work done in class and due at the end of the class meeting. There will also be homework assigned for the next meeting. Larger assignments will be assigned over the weekend. All work must be posted to MIRO for reviews and grading.

Important dates:

- **Class 17: March 26th- Mid-semester review**
- **Class 27: May 9th - Final Presentation**
- **Class 30: May 21st - Wrap Up and Final Collection**

Teams:

The class will be divided into teams who will remain together throughout the semester. Each team will create a zoning envelope for their site, will document site inventory and analysis and will define site strategies. Working with the guidelines defined by your team, each individual will develop their own Urban Housing Solution.

- Day 1. 1/25 Introduction to Course Content and Team Building**
- **Activity 1a** **About Me Boards** – Posted prior to first class meeting. Each student to compose one graphic board that expresses their personal interests and their architectural interests. Use in class review to determine teams. Posted prior to first class meeting. These boards used to formulate teams.
 - **Activity 1b** **About My Team Boards** – Each team to compose one graphic boards which includes a photograph and the name of each member. For each team member list the strengths they add to the team and identify at least 1 goal the member would like to accomplish this semester. Write a 2-3 sentence summary that expresses who your team is.
 - **Posting Activity 2** All final boards, individual, team and class are to be posted on MIRO.
Introduction to Site: Visit – Inventory & Analysis – (Team) Consider Circulation (Pedestrian/Vehicular /Private/Public), Views (to the site/ from the site), Environment (Noise, Odor, Vegetation, Winds, Sun), Land Use & Zoning, Demographics, Cultural, Educational, Service Facilities, etc. Divide the work up and put together a cohesive presentation. Introduction of 3D site model.
 - **Activity 3** **Assignment: Zoning Envelope (NAAB) assigned / Review of Zoning District Rules –www.nyc.gov/planning**
 - **Activity 4** **Zoning Massing Study** – Develop basic zoning diagrams for your site. What is the zoning envelope – 3D and in two sections. **(Template)**
 - **Activity 5** **Review of Land Use Assignment: Land Use Diagram (NAAB) assigned / Homework: [Development of site analysis and zoning envelope, Land Use and Site Analysis](#)**



Day 2. 1/30 SITE VISIT

- **Activity 1 Individual Assignment: Housing Precedents (2 each)**
- **Zoning Massing Study** – Review of Zoning Envelope Diagram and Sections
Homework: Continue with Preliminary Inventory and Analysis- Groupwork + Individual Housing Precedents

Day 3. 2/1 Site Analysis & Introduction to Site Strategy

Activity 2 Final slide should be a team Site Strategy Diagram showing the findings and how your site will be impacted and how to best proceed with design.

Homework: Prepare Final Site Inventory and Analysis Presentation + Individual Housing Precedents

Day 4. 2/6 Site Analysis & Inventory Presentation + Individual Housing Precedent Presentations

- **Activity 1** Presentations of Site Analysis and Inventory, Zoning + Site Strategy Diagram
- **Activity 2** Presentations of Housing Precedents
- **Activity 3** Create list of site amenities from precedent studies

Homework: Individual Site Bubble Diagram overlaid on site strategy diagram showing possible locations of site amenities and building locations, entrances, paths...

Day 5. 2/8 Concept

- **Activity 1** **Assignment: Collages + Concept Models (In-Class)** assigned
Individual Concept Collages -2 (first hour)
- **Activity 2** Individual Concept models- 3 models for each collage = 6 models (second 1.5hr)
- **Activity 3** Post to Miro by 2.5 hr of class REVIEW final 45min of class

Homework: **Assignment: Hybrid Model on Site Bubble Diagram** assigned

Day 6. 2/13 Review Hybrid Models

- **Activity 1** Presentations of hybrid models on site (physical models)

Homework: Finalize Hybrid Model on Site to Scale

Day 7. 2/15 Parti Development

- **Activity 1** Presentation and critique of final hybrid model on site and revisions
- **Activity 2** Discussion of final selection of Site Amenities. Development of site concept based on parti emphasizing public/private, circulation, solar, views, et al.

Homework: Continue to develop Final Site Concept Model – plans and site sections+ Site Plan Concept- can move to 3D Computer models- must show solar studies for 6/21 + 12/21 at noon

Day 8. 2/20 Site Concept

- **Activity 1** Mini Presentations: **Individual Final Site Concept Presentations** Development of site concept based on parti through model and drawings

Homework: Revise/update- Site Concept massing – plans and site sections



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- Day 9. 2/27** **Amenities & Bubble Diagrams**
- **Activity 1** **Review of Typologies of Housing – Precedent Studies (Day 5 assigned).** Begin programming and research into space planning. Complete the program to determine uses, locations and rough sizes of floor areas. Understanding applicable building code.
 - **Activity 2** **Matrix and Bubble Diagram Presentation**
 - **Activity 3** **Affordable Housing – this week....**
Homework: **Assignment: Programming: Matrix and Bubble Diagram assigned**
- Day 10. 9/29** **Programming**
- **Activity 1** Discussion and review of amenities, lobby, common spaces, programming matrixes, bubble diagrams.
 - **Activity 2** **Affordable Housing – this week....**
Homework: **Develop a Bubble Diagram of ground floor plan (non-residential)**
- Day 11. 3/5** **Residential Units**
- **Activity 1** Introduction to Individual Residential Units. Interior planning design concepts and requirements. Discussion of furniture layout, space planning, unit layouts, light and air requirements. Discussion of housing, communal living, community NYCHA sf requirements. Group work on Miro – gathering dimensions and residential standards. NYC Dept of Buildings Code: Light + Air Calculations for habitable rooms.
Homework: **Assignment: Residential Units assigned**
- Day 12. 3/7** **Review Residential Units + Intro to ADA Requirements**
- Activity 1** Work in teams to review 1,2,3 bedroom units solutions.
 - Activity 2** Development of ADA units based on NYC Bldg Code and ADA
Homework: **Continue to develop Typical unit layout, Studio, 1,2,3 bedrooms**
- Day 13. 3/12** **ADA Residential Unit and Requirements**
- Homework:** **Continue to develop Typical ADA unit layout 1 bedrooms + Bldg ADA Requirements**
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- Day 14. 3/14** **Building Codes**
- **Activity 1** **Group review of typical unit layouts**
 - **Activity 2** **Building codes, fire stairs, travel distances, core development. Desk crits.**
Homework: **Assignment: Egress Diagrams (NAAB) assigned + ADA Building Pathway – street to Unit via ADA Route**
- Day 15. 3/19** **Design Development**
- **Activity 1** **Individual Review of typical floor plan layouts**
 - **Activity 2** **Development of project massing, core, site, units.**
Homework: **Finalize typical Floor plans with egress + Blow-ups with Light +Air Calcs**



Day 16. 3/21 Massing Development

- **Activity 1** Individual review of typical floor plan layouts
 - **Activity 2** Continued development of project massing, core, site, units.
- Homework: Prepare for Mid-semester Presentation**

Day 17. 3/26 Mid-Semester Presentation

- **Activity 1** Mid-Semester presentation with professors and guest jurors
- Homework: Rework typical plans, massing, site layout and development of amenities based on review from Mid-Semester Presentation**

Day 18. 3/28 Project Development

- **Activity 1** Further development of project massing, core, site and units. Development of Plans, Sections, Massing of Unit, typical floor layouts and connections to site.
- **Activity 2** Continued development of project on site.- Floor Area Ratio (FAR)

Day 19. 4/2 Ground floor plan – lobby and relationship to site

- **Activity 1** Individual review of Site Plan with images of exterior amenities
 - **Activity 2** Further development of project massing, core, site and Lobby. Development of lobby and connection to site- entrances, parking, service, mail, deliveries...
- Homework: Site Development and Lobby plan, site layout and development of amenities**

Day 20. 4/4 Ground floor plan – lobby and relationship to site Cont.

- Homework: Final Site Development and Lobby plan, development of amenities. Selection of your 3D views.**

Day 21. 4/9 Project Development

- **Activity 1** Further development of Plans, Building Sections, Exterior Elevations and 3D Models – development of typical floor plans.
- Homework: Short site section and 1 long site section**

Exterior Façade – Landscaping and Site Amenities

Day 22. 4/11 Exterior Elevations & Site Development

- **Activity 1** Review of site sections. Development of exterior elevations and discussion of materials. Development of site plan and site amenities.
- Homework: Site Development with images of materials**

Day 23. 4/16 Exterior Elevations & Site Development

- **Activity 1** Review of site sections. Development of exterior elevations and discussion of materials. Development of site plan and site amenities.
- Homework: Site Development with images of materials**



Day 24. 4/18 Presentation Methodologies

- **Activity 1** Review of exterior elevations and image selections. Discussion of final presentation methodologies. Development of thumbnail story board.

Homework: Thumbnail diagrams for final presentation.

Day 25. 5/2 Desk Crits and Presentation Review

Day 26. 5/7 Desk Crits and Presentation Review

Day 27. 5/9 Final Presentation

Day 28. 5/14 Final Summary Packet

Day 29. 5/16 Final Summary Packet

Day 30. 5/21 Collection of Work/Final Submission and Recap