

**Department of Architectural Technology**  
Bachelor of Technology in Architectural Technology

**ARCH 3510                      ARCHITECTURAL DESIGN V**

Day 5

Discussion of site selection and orientation of program on site.

There is currently a lack of innovative, affordable multi-family housing in Brooklyn. Many families are leaving the city for the suburbs as the housing is very limited. With this project, you have the opportunity to explore the future, question the past and re-invent the notion of responsible affordable housing with an emphasis on sustainability while addressing higher principles of societal health, human sustenance, site integration, energy production and appropriate materials.

Design a unit to provide space for sleeping, eating, living, and normal daily activities. Spaces may overlap, be interchangeable, flexible, moveable, multi-functional, etc. to fit the needs of your family.

Program: 400sf per person (family of 4=1600sf, 5= 2000sf...)

Max of seven stories (or 72' high)

1<sup>st</sup> floor is in the floodplain – must be common space

Bicycle parking required, along with space for four (4) electric car parking with plug-in stations

Must provide central elevator along with two stairs from each unit.

Your design for your family will be repeated to produce a minimum of 12 units.

You may mirror, rotate, push/pull, stack,... this unit to create the whole.

The negative space must be designed to provide a variety of spaces to be used by your families.

**HOMEWORK: Board 5** Diagrammatic Site layout showing ideas of unit configurations, including exterior spaces and orientation – show 4 different layouts (Macro)

In plan and in 3D create a bubble diagram that reflects which site that you have selected for your family. The organization of your spaces should be taken from your programming studies from Post 2. Show open spaces, yard, approach, views, sun/shade, noise, public vs. private. These diagrams should be a combination of spaces and text describing the location.

The 3D should show the spaces and their relationship vertically. (which spaces are on top of one another and how they are connected)

These are diagrams, not conceptual drawings.

**HOMEWORK: Board 5** Diagrammatic Site layout

