ARCH 2330   **BUILDING TECHNOLOGY III**   **January 2013**

Project Statement:

Overview: New York City College of Technology plans on building a new academic building on the current site of the Klitgord Gymnasium. This semester we will study the site and develop our own version of the new complex. Working both in teams and as individuals we will explore possible solutions documenting our results in a set of Design Development Drawings.

Design Development: Design Development is the second phase of an architectural project where the building systems and materials are studied to determine how the building is to be built. During this phase our focus is on testing different design solutions for the construction and assembly of the building.

Building Program: The building will be comprised of three masses as follows:
- A three (3) story single atrium space located on the corner that will serve as a main public space and entry to the building.
- A (2+) two story, long span Multiuse Gymnasium/Auditorium space located along Tillary Street toward Flatbush avenue
- An (6-8) story academic building located along Jay Street that will house classroom and laboratory spaces.

Structure: Students will be responsible for determining structural strategies and documenting these in a set of framing and structural drawings.

Materials: There will be a mix of three different building systems as follows:
- Atrium Space - will consist of a Glass Curtain Wall System
- Gymnasium/Auditorium Space - will consist of a Masonry wall system
- Academic Building - will consist of a Pre-cast Concrete panel system

Research & Presentation: Teams will research, present and evaluate different solutions and will develop drawings and details showing their final decisions.

Submissions: Completed submissions will include but not be limited to the following: Design Development Drawings, Site Sketches, Research Presentations, etc. These shall illustrate building plans, reflected ceiling plans, building sections, exterior elevations, interior elevations, wall sections, details, and schedules. The semesters work will include "Front End" study sheets such as Zoning and Site analysis, Accessibility standards/details, core studies etc.

Poster Submission: A 36 x 48 poster describing the teams research and design development.

ARIAL VIEW & SITE PLAN

CLASS STRUCTURE

Overview:	The end product of the course will be a combination of both individual and group work. Each team will be required to keep a log documenting their semester's work. This project log will include copies of all case studies, design studies, progress drawings and the final set of documents.
Planning:	Each team will be responsible for identifying tasks and assigning these to team members. Division of work is to be reviewed and approved by the professor.

Competencies: Each member of the team will need to demonstrate skills in the following areas:
- **Planning**: Ability to set priorities, allocate assignments & meet deadlines.
- **Research**: The ability to research and present a fully developed case study
- **Presentation**: To clearly present the development of your building through case studies, drawings, oral and written presentations.
- **Hand Drawing & Sketching**: Delineate information using hand techniques.
- **Computer Drawing**: To complete a set of coordinated project drawings.

Teams: During the semester, students teams will present their research to the class. Research topics will be assigned as the semester proceeds.

Team Binder: The team will need to submit a completed binder by the end of the semester. This binder must be available for review throughout the semester at every class. It is recommended that each student keep a duplicate copy for themselves.

The binder should contain the following at a minimum:
- Class Documents: The project description and other relevant documents.
- Handouts: Handouts and other materials that helped the team understand the use of hand or computer technology that were either provided by the professor or developed as a handout by the team for sharing with the class.
- Research Notes: Created during the Research Process.
- Hand Drawings & Sketches:
- Computer Drawings:
- Team Glossary of Terms: This would include two basic categories, Architectural Terms and Glossary items related to the tools or computer software. Teams are required to add to this listing during each class.

Grading: The following outline will help you understand the grading process.

Description	Percentage
Individual Computer Based Drawings	**50 %**
Case Studies, Presentations, Research	**15 %**
Studio Lab Assignments	**15 %**
Sketching Assignments	**15 %**
Class Participation	**5 %**

Assignment Sheets: Assignment sheets with more detail will be provided throughout the semester.

Website Portal: Hosted at **http://openlab.citytech.cuny.edu/**