

# **New York City College of Technology - City University of New York**

300 Jay Street, Brooklyn, New York 11201

## **Department of Architectural Technology**

### **ARCH 1200            ARCHITECTURAL DRAWING II**

1 classroom hour, 3 lab hours, 2 credits

**Course Description:** The continuation of the development of skills learned in ARCH 1100. The course includes the production of architectural contract documents (working drawings) for a one-story incombustible commercial building.

**Prerequisites:** ARCH 1100 with a grade of C or higher,  
CUNY proficiency in reading and writing

**Required Text:** Architectural Graphic Standards- Latest Student Edition  
Ramsey and Sleeper, J Wiley and Sons Inc

**Suggested Text:** Sweet's Catalog McGraw Hill Information Systems

**Attendance Policy:** No more than 10% absences are permitted during the semester. For the purposes of record, two latenesses are considered as one absence. Exceeding this limit will expose the student to failing.

**Grading:** All studio and class work assignments will be critiqued and graded. There will be no midterm or final examinations. Grades will be based on the accumulated work of the semester, and the submission of a COMPLETE set of drawings.

**A grade of C or higher is required in this course to use it as a prerequisite for subsequent courses.**

**Academic Integrity:** Students and all others who work with information, ideas, texts, images, music, inventions and other intellectual property owe their audience and sources accuracy and honesty in using, crediting and citation of sources. As a community of intellectual and professional workers, the college recognizes its responsibility for providing instruction in information literacy and academic integrity, offering models of good practice, and responding vigilantly and appropriately to infractions of academic integrity. Accordingly, academic dishonesty is prohibited in The City University of New York and is punishable by penalties, including failing grades, suspension and expulsion.

**Learning Objectives:** Upon the successful completion of this course students shall be able to;

1. Develop a complete set of drawings for a commercial structure.
2. Analyze a detailed assembly for masonry, glazing, roofs assemblies etc..
3. Be aware of and capable of defining the scope of contract documents and sequence of developments
4. Understand the value of modular construction, to simplify the selection and installation of modular units, and the economies inherent in such choices.

**Assessment:****Evaluation Methods and Criteria**

Students will exhibit skills in class, studio, and all drawing assignments.

1. Students will demonstrate an understanding of all phases of the contract documents for a two story steel and masonry commercial structure.
2. Students will produce correct detailed assemblies of appropriate portions of the structure assigned.
3. Students will demonstrate their understanding of the correct sequence in the development of contract documents.
4. Students will understand the importance of choosing modular construction where appropriate to simplify construction, and thereby conserve costs.

**Course Outline:**

**Week 1** Introduction and review of general office procedure. Typical sheet and title block format will be assigned for all class work and homework. Analysis of the commercial structure, plan and elevation study. Students will receive a set of design drawings using calculations of modular units.

**Week 2** Drafting criteria and architectural scale review. Plan and elevation analysis and development.

**Week 3** Preliminary plans due with dimensions @ 1/4" scales Discussion of base drawings, and layering techniques as developed with CADD. Demonstration of dimensioning systems, symbols and legends. Examples of documents used in office practice.

**Week 4** Preliminary sections due @ 1/4" scale. Section detailing. Analysis of vertical and horizontal wall sections. Wall construction and section details. Discussion of progress prints.

**Week 5** Progress prints due of plans and sections. Research and analysis of large scale details.

**Week 6** Preliminary details due. Large scale detail review and critique. Introduction of lighting layouts and electrical symbols.

**Week 7** Reflected ceiling plans due @ 1/4" scale. Discussion of layering techniques for details prepared on CADD (Guest lecturer, optional); demonstration lesson in computer lab.

**Week 8** Detail development, and analysis, continued. Set of preliminary prints due.

**Week 9** Return marked up prints. Detail development and modular systems. Commence final drawings.

**Week 10** Development of schedules.

**Week 11** Prepare schedules; (door, window, hardware, finish, etc.).

**Week 12** Schedule sheet due. Explain the use of outline specifications and develop a basic set for this project.

**Week 13** Review and critique student documentation.

**Week 14** Final review of drawings and documents.

**Week 15** Final submission