

NOVA COLLEGE-WIDE COURSE CONTENT SUMMARY

ARC 231 – ADVANCED ARCHITECTURAL DESIGN AND GRAPHICS I (4 CR.)

Course Description

Provides fundamental knowledge of the principles and techniques of architectural drawing procedures. Familiarizes student with design process. Provides a better understanding of the relation between architectural design and structural systems. Lecture 2 hours. Laboratory 6 hours. Total 8 hours per week.

General Course Purpose

To develop an understanding of the design process used in architectural firms from schematic design through design development.

Course Prerequisites/Corequisites

Prerequisite: ARC 124.

Course Objectives

Upon completing the course, the student will be able to:

- Analyze a complex site
- Analyze a complex building program
- Develop a design concept
- Develop a building design
- Communicate a design concept through drawings and models
- Develop a design concept to include appropriate building systems

Major Topics to be Included

- a. Survey of design criteria
- b. Site analysis
- c. Program analysis and interpretation
- d. Schematic design
- e. Design communication
- f. Design development
- g. Integration of structural concept
- h. Building systems and materials