

NOVA COLLEGE-WIDE COURSE CONTENT SUMMARY ARC 124 - ARCHITECTURAL GRAPHICS II (3 CR.)

Course Description

Continues with the techniques of architectural communication including orthographic projection and sketching as well as 3d views and modeling. Requires the production of plans, sections, elevations and 3d views and models of a simple building using computer technology. Includes dimensioning and detailing. Part II of II. Credit will not be awarded for both ARC 122 and ARC 124. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

General Course Purpose

To utilize the skills and knowledge obtained in ARC 123 using a contemporary computer software to produce a limited set of architectural drawings.

Course Prerequisites/Corequisites

Prerequisite: ARC 123

Course Objectives

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

- a) Apply Building Information Modeling (BIM) using a common software package
- b) Use computer technology to produce a simple set of architectural drawings which demonstrates the understanding of the information communicated by:
 - a. floor plans
 - b. elevations
 - c. sections
 - d. wall sections
 - e. construction details
- c) Develop a 3d model
- d) Students prepare presentations documenting the computer production of the set above from free hand sketches.

Major Topics to be Included

- e) How computer technology assists in producing architectural drawings
- f) How to organize a set of architectural drawings
- g) Information communicated by floor plans
- a) Information communicated by elevations
- b) Information communicated by sections
- c) Information communicated by wall sections and details
- d) Information communicated by construction details
- e) How to develop construction details from design sketches