

NOVA COLLEGE-WIDE COURSE CONTENT SUMMARY IDS 246 – ADVANCED CADD FOR INTERIOR DESIGN (3 CR.)

Course Description

Introduces advanced methods of designing project spaces in a computer aided design based program. Includes wire frame construction, skins, lighting the space, fly through, entourage, presentation in various oblique formats as well as one and two-point perspective views. Lecture 2 hours. Laboratory 3 hours. Total 5 hours per week.

General Course Purpose

This course is designed for students who are interested in continuing to develop their cad skills through the use of three-dimensional programs using a Building Information Modeling (BIM) system.

Course Prerequisites/Corequisites

Prerequisite: IDS 245.

Course Objectives

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

- a) Create a floor plan in a three-dimensional modeling program.
- b) Add components to the floor plan including wall, ceiling, floor, door and window assemblies.
- c) Develop lighting schemes to aid in photorealistic rendering of the area.
- d) Create multiple views of an interior space including elevations and perspectives.
- e) Render the views using stock materials or materials imported from the internet.

Major Topics to be Included

- a) Definition of CAD vs. Building Information Modeling (BIM)
- b) Overview of basic drawing and modifying commands
- c) Setting up an interior model
- d) Add assemblies of doors, windows, walls, ceilings and floors to the model
- e) Set up different views of the model including elevations and sections
- f) Insert and edit components
- g) Add materials to components
- h) Set up perspective wire frame views of the interior model
- i) Light the model
- j) Render the model