



# CENTRAL PIEDMONT COMMUNITY COLLEGE

## CORPORATE & CONTINUING EDUCATION

**Course Number:** CAD7014  
**Course Title:** AutoCAD 2008 3D Drawing and Modeling  
**Course Hours:** 24 Hours

*Last Revised On:* 4/24/08

### **Description:**

This class introduces users who are proficient with AutoCAD's 2D commands to the concepts and methods of 3D modeling. The course gives a thorough grounding in 3D fundamentals and explores the main features of AutoCAD's advanced 3D workspace. This class covers such topics as 3D viewing techniques, working with 3D coordinates, 2D objects in 3D space, creating and modifying 3D solids, and rendering the model.

### **Objectives:**

- 3D viewing techniques
- Working with simple and composite solids
- Creating complex solids and surfaces
- Creating and modifying 3D objects
- Converting 3D objects and creating composite solids
- Perspectives and rendering
- Working with layouts
- Creating 2D drawings from 3D models
- Working with a User Coordinate System
- Getting information about the model

### **Content:**

1. Basic 3D Concepts
  - Foundations
  - Simple Solids
2. Solid Modeling
  - Creating Solids and Surfaces from 2D Objects
  - Tools for Modifying 3D Objects
3. Converting and Advanced Editing Solids
  - Converting 3D Elements
  - Advanced Solid Editing
4. Visualizing the 3D Model
  - Refining the View
  - Realistic Views



# CENTRAL PIEDMONT COMMUNITY COLLEGE

## CORPORATE & CONTINUING EDUCATION

5. Working Drawings from 3D Objects
  - Working with Layouts
  - 2D Drawings from 3D Models
  
6. Advanced 3D Tools
  - Working with the User Coordinate System
  - Additional Tools for Working in 3D
  - Additional Drawing Projects

### **Prerequisites:**

- AutoCAD Level 2 or equivalent experience

### **Method of Instruction:**

- Lecture, demonstration and hands-on activities

### **Evaluation:**

- Exam: No
- Class Participation: Yes
- Demonstration of Skills: Yes