

SYLLABUS: ART 469 CADD I

Fall 2005

SYLLABUS

- I. COURSE TITLE
ART 469 *CADD I* **3 semester hours**
- II. PREREQUISITE
None
- III. TEXTBOOK
- IV. COURSE DESCRIPTION
Introduction to basic principles of computer-aided drafting using Autodesk AutoCAD computer software, version 2000. Focus will be on architectural drafting and design.
- V. RATIONALE
Many aspects of the interior design profession is dependent on speed and accuracy. Being able to originate and manipulate architectural drawings using computer-aided software is a skill that is increasing in demand among interior design and architectural firms. Proficiency in the use of AutoCAD, the major computer-aided-design software used by architectural firms, increases the marketability of interior design students.
- VI. **LEARNING OBJECTIVES AND OUTCOMES**
- A. The student will be able to use the AutoCAD toolbox.
 - B. The student will be able to use the AutoCAD commands.
 - C. The student will be able to plan an AutoCAD drawing using appropriate settings.
 - D. The student will be able to save drawings.
 - E. The student will be able to draw lines, erase objects, use layers, and make prints.
 - F. The student will be able to draw basic shapes to a particular scale or measurement.
 - G. The student will be able to use object snap while constructing geometric and multiview drawings.
 - H. The student will be able to place text on drawings.
 - I. The student will have a working knowledge of drawing display options in creating layouts, plotting and printing.
 - J. The student will be able to apply basic editing commands in executing a drawing.
- VII. **COURSE TOPICS**
The major topics to be considered are:
- A. The tools of CAD

ART 469: CADD I
Mississippi College Department of Art

- B. Establishing an AutoCAD drawing method.
- C. Selecting AutoCAD commands
- D. Using the Express Tools.
- E. Avoiding Disk Full problems.
- F. Planning an AutoCAD drawing.
- G. Multiple design environment (MDE)
- H. Changing Drawing Settings.
- I. Establishing a grid on the screen
- J. Setting increments for cursor movement.
- K. Creating and using drawing templates.
- L. Saving drawings.
- M. Line conventions.
- N. Drawing lines with AutoCAD
- O. An introduction to layers.
- P. Drawing circles, arcs, ellipses, regular polygons, rectangles, donuts, and solid circles.
- Q. Snapping to specific features.
- R. Using AutoTracking to locate points
- S. Drawing parallel lines and curves.
- T. Dividing an object
- U. Drawing auxiliary views.
- V. Drawing construction lines.
- W. Using the geometry calculator.
- X. Text standards
- Y. Using AutoCAD to draw text.
- Z. Model space and paper space.
- AA. Using the aerial view.
- BB. Introduction to 3D display commands.
- CC. Redrawing and regenerating viewports.
- DD. Basic editing commands.

XIII. INSTRUCTIONAL METHODS AND ACTIVITIES

Methods and activities for instruction will include:

- A. lecture
- B. demonstration
- C. studio application
- D. individual and group critiques
- E. written evaluation of design projects
- F. written examination

ART 469 Syllabus Page 3

IX. ASSIGNMENTS

- A. Preliminary Concept Exercises: Assignments required as needed in preparation for major design project.
- B. Architectural Drawing Projects

C. Written Examinations

X. EVALUATION

The student's semester grade will be based on the following:

A. Preliminary Concept Exercises	20%
B. Architectural Drawing Projects	60%
C. Written Examinations	20%
TOTAL SEMESTER PERCENTAGE:	100%

XI. LIST OF MATERIALS

AutoCAD 2000LT

Computer Disks

Paper to Plot Drawings

Notebook

XII. REFERENCES

A. **Bibliography**

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