

DDT 113
ARCHITECTURAL DRAFTING
SYLLABUS

Instructor: R. Edward Rode'

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Course Description:

Principles and practices of architectural drawing, terminology, and construction through Residential planning and design, including floor plan, elevation, building section, details, electrical plan, plumbing plan, HAVC plan, and plot plan. Introduction to architectural drawings and the use of Computer Aided Drafting

Course Objectives:

1. Understanding and converse in appropriate architectural terminology.
2. Recognize, interpret and draw all the components associated with a set of residential working drawings, and specifications.
3. Apply ANIS standards techniques to drawing , lettering, and dimensioning.
4. Develop skills in the use of drafting instruments and correct drafting techniques.
5. Develop an attitude for neatness, orderliness, accuracy, speed and legibility in one's work.
6. Learn the skills needed to draw architectural drawings in Auto Cad.

Course Text:

Jefferis, A. & Madsen, D. (1991) . Architectural Drafting & Design

Delmar Publishers, Inc.

Course Grades:

1. Grades will be assigned in accordance with the departmental grading scale.
 - 93 - 100 = A, Superior
 - 85 - 92 = B, Very Good
 - 77 - 84 = C, Average
 - 69 - 76 = D, Below Average
 - 0 - 68 = F, Failure
2. Basis for assigning grades.

A. Quality, quantity, and range of laboratory work completed:	70%
B. Mastery of content as measured by objective tests:	20%
C. Attendance	10%
TOTAL:	100%

Course Requirements:

1. Adherence to departmental policies and procedures, a copy of which has been provided to you.
2. Regular class attendance as prescribed in the departmental requirements.
3. Material to be discussed in class must be read prior to coming to class.
4. Material for tests/exams will be reviewed at class one week prior to test/exam.
5. **STUDENTS MUST PROVIDE A WAY TO STORE DRAWINGS OUTSIDE OF THE CLASS.**
3 1/2" DISKS OR FLASHDRIVES

NOTES:

1. **Students will NOT automatically be dropped from class. Students who choose to drop must do so by the semester deadline!**
October 19, 2007 is the last day to drop classes or resign from the University.
2. **If you are a qualified student with a disability seeking accommodations under the American with Disabilities Act, you are required to self-identify with the office of Student Life, Room 203, Student Union.**
3. **Students behavior/ Classroom decorum: "Free discussion, inquiry, and expression is encourage in this classroom. Classroom behavior that interferes with either (a) the instructors ability to conduct the class or (b) the ability of students to benefit from the instruction is not acceptable. Examples may include routinely entering class late or departing early; use of beepers, cellular telephones, or other electronic devices; repeatedly talking in class without being recognized; talking while others are speaking; or arguing in a way that is perceived as "crossing the civility line". In the event of a situation where a student legitimately needs to carry a beeper / cellular telephone to class, prior notice and approval by the instructor is required."**

I. INTRODUCTION

- A. Goals
- B. Drawings
- C. Quizzes, Tests, & Examines

II. OVERVIEW

- A. Job Opportunities
- B. Changes in the field
- C. Changes in construction

III. Drafting

- A. Equipment
- B. Lines and Lettering
- C. Sketching
- D. Media
- E. Reproduction of Drawing
- F. Systems Drafting
- G. Computer-Aided Design and Drafting

IV. RESIDENTIAL DESIGN

- A. Building codes and deed Restrictions
- B. Room relationship and sizes
- C. Exterior design factors
- D. Site orientation
- E. Solar energy concepts
- F. Energy efficient design
- G. Design sequence

V. FLOOR PLANS

- A. Symbols
- B. Dimensions
- C. Electrical plan
- D. Plumbing plan
- E. Heating ventilation & air conditioning

VI. FOUNDATION PLAN

- A. Foundation Systems
- B. Flooring Systems
- C. Foundation plan

VII. ELEVATIONS

- A. Introduction
- B. Drawing techniques

VIII. SECTIONS

- A. Framing methods
- B. Structural components
- C. Sectioning basics
- D. Layout techniques
- E. Stair construction & layout
- F. Fireplace construction & layout

IX. ROOF PLAN

- A. Components
- B. Framing and layout

X. PLOT PLAN

- A. Legal descriptions
- B. Plan requirements
- C. Layout

XI. SPECIFICATIONS AND PROCEDURES

- A. Specifications
- B. Construction procedures

References:

- National Center for Construction Education and Research . (1992) Construction supervision.
Gainesville, FL. : Author.
- Dorsey, R.W. (1999). Case study in building design and construction. Columbus, Ohio: Prentice Hall
- Dorsey, R.W. (1198). Project delivery systems for building construction. Columbus, Ohio: Prentice Hall
- Parker, H. & Gay, C. M. & MacGuire, J.W. (1996). Materials and methods of architectural construction.
(8th ed.) New York : John Wiley & Son.
- National Fire Protection Association. (1998). Life safety code 1998 Boston, MA: Author
- Waugh, E. & Waugh E. & Kamphoefner, H. L. (1997). The south builds : New architecture in the south.
Chapel Hill, N.C.: The University of North Carolina Press
- Putnam, R.E. & Carlson, G. E. (1974). Architectural and building trades dictionary. (3rd ed.) . Chicago. IL:
American Technical Society.
- Mehta, M. (1997). The principles of building construction. Columbus, Ohio: Prentice Hall