

MURRAY STATE UNIVERSITY

DEPARTMENT OF INDUSTRIAL AND ENGINEERING TECHNOLOGY

ITD 301-01

8:30-10:20 MWF

CREDIT HOURS: 4

I. TITLE: Architectural Drawing and Residential Planning

II. CATALOG DESCRIPTION:

Functional planning, designing and construction detailing of residences and allied structures; drawing techniques and conventions; client-related, financial and legal aspects of building. Lecture and laboratory. NOTE: This course is a laboratory course and meets for twice the contact hours as a lecture course of the same credit value. Prerequisites: ITD 101 and 104 or equivalent.

III. PURPOSE:

To instruct students in the basic knowledge of residential planning and design and the CAD skills necessary to create technical drawings documenting residential construction.

IV. COURSE OBJECTIVES:

- A. Learn the standards of basic residential planning
- B. Learn the building components of residential construction
- C. Learn and develop CAD skills by drawing a residence on the computer

V. CONTENT OUTLINE:

- A. Present the conventions of architectural construction drawing
- B. Understanding the components of residential construction
 - 1. Site Improvements
 - 2. Foundations
 - 3. Walls
 - 4. Doors and Windows
 - 5. Bathrooms and Kitchens
 - 6. Stairways, Chimneys, and Decks
 - 7. Exterior materials
 - 8. Roofs
- C. Zoning, Permits, and Home Financing
- D. Draw residential case example in AutoCAD
- E. Draw residential case example in REVIT
- F. Introduce concepts of the passive house and green building

VI. INSTRUCTIONAL ACTIVITIES:

- A. Lectures
- B. Handouts
- C. Discussion
- D. Outside Reading Assignments
- E. Internet research

VII. FIELD, CLINICAL AND/OR LABORATORY EXPERIENCES:

Field trip if possible

VIII. RESOURCES:

- A. Architectural Graphic Standards, tenth edition
- B. Fundamentals of Residential Construction, Edward Allen and Ron Thallon, Wiley 2nd ed., 2006
- C. Various house plan journals, magazines, Internet sources
- D. Handouts and house construction drawings

IX. GRADING PROCEDURES:

Grades will be calculated based on the following criteria:

Projects, assignments and quiz	70%
Midterm/Final Exam	25%
Participation and Attendance	5%

Grade Scale:

A:	90-100%
B:	80-89%
C:	70-79%
D:	60-69%
E:	0-59%

The instructor retains the right to adjust the grading system to allow for unusual circumstances.

X. ATTENDANCE POLICY:

Attendance in this class is important for the student to complete his or her work and to receive design consultation and instruction. Attendance will be recorded for each class period. For necessary absences, the student must make prior arrangements with the instructor, or make-up work or exams WILL NOT be provided or accepted. With the third unexcused absence, the student grade will be decreased by one letter grade and further absences will result in a drop of one-half letter grade each.

XI. ACADEMIC HONESTY POLICY:

Cheating, plagiarism (submitting another person's material as one's own), or doing work for another person which will receive academic credit are all impermissible. This includes the use of unauthorized books, notebooks or other sources in order to secure or give help during an examination; the unauthorized copying of examinations, assignments, reports or term papers; or the presentation of unacknowledged material as if it were the student's own work. Disciplinary action may be taken beyond the academic discipline administered by the faculty member who teaches the course in which the cheating took place.

XII. TEXT AND REFERENCES:

- A. Stine, Daniel John Residential Design Using Autodesk Revit Architecture 2012, SDC Publications 2010
- B. Allen, Edward and Thallon, Rob Fundamentals of Residential Construction 3rd Edition John Wiley & Sons, Inc. 2011

XIII. PREREQUISITES

- A. ITD 107 or equivalent.

XIV. STATEMENT OF AFFIRMATIVE ACTION AND EQUAL OPPORTUNITY:

Murray State University endorses the intent of all federal and state laws created to prohibit discrimination. Murray State University does not discriminate on the basis of race, color, national origin, gender, sexual orientation, religion, age, veteran status, or disability in employment, admissions, or the provision of services and provides, upon request, reasonable accommodation including auxiliary aids and services necessary to afford individuals with disabilities equal access to participate in all programs and activities.

For more information, contact the Director of Equal Opportunity, 103 Wells Hall, (270) 809-3155 (voice), (270) 809-3361 (TDD).

XV. CLASS POLICIES:

- The use of any type of email or instant messenger is strictly prohibited during class time. Do not use email or instant messenger during class.
- Please turn off cell phones by the beginning of class. Use of cell phones during class period is strictly prohibited.

- Food or drinks are not allowed in the computer labs. Do not bring food or drinks into the lab. The use of any tobacco products in the drafting studio or CAD laboratory is strictly prohibited.

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