

COLLEGE OF ARTS AND SCIENCES

Course Syllabus

DEPARTMENT: Agricultural Sciences-Technology Program
COURSE NUMBER AND TITLE: IT 263; Home Planning
SEMESTER: Fall 2007
CREDIT HOURS: 3 (2-2 Format)
LECTURE LOCATION / TIME: Farrington, Room 224, Mon-Fri 1-5 p.m.
LAB / TIME:
INSTRUCTOR: John J. Copley, M.Ed.

OFFICE: Farrington 220
P.O. Box 2266/SHSU
Office phone and voicemail: 936-294-1198
Email: JC011@SHSU.EDU.COM

OFFICE HOURS: Tuesday and Thursday, 12:00 Noon – 1:00 p.m.

TEXTBOOK (Recommended):

SUPPLIES: One Memory Stick or 100/250 MB zip disk

COURSE OBJECTIVES:

This course consists of the development of a set of plans for a one-level, single family dwelling. Covered are the basic elements of space planning and the combining of these areas into a composite and functional; floor plan. An introduction and overview of the varied building materials and construction techniques used in residential dwellings are discussed. The set of plans consists of a floor plan, exterior elevations (4 min), cabinet elevations, electrical plan, cross-section details, framing plans, interior/exterior 3D renderings, and site plan. The plans are created by the use of CAD software, namely Auto-Cad and Chief Architect.

COURSE FORMAT: The course will be a combination of lecture, demonstration, in class problem solving and student drawing exercises. Students are required to complete a series of drawings that will reflect their knowledge of the stated objectives and the use of the software.

COURSE CONTENT:

Unit I: - Introduction

A. Architectural drafting equipment

- B. Media and Reproduction Method
- C. Sketching and Orthographic Projection
- D. Line types and Lettering
- E. Architectural CAD Programs

Unit II – Residential Design

- A. Room Relationships and Sizes
- B. Exterior Design Factors
- C. Conservation and Environmental Considerations
- D. Site Orientation
- E. Site Plan Layout

Unit III- Building Materials and Construction Techniques

- A. Layout and excavation
- B. Mixing and pouring concrete
- C. Footings and foundations
- D. Poured concrete slabs
- E. Sill and floor construction
- F. Frame wall construction
- G. Masonry wall construction
- H. Ceiling joist and roof construction
- I. Post and beam
- J. Modular construction
- K. Doors and windows
- L. Stair construction
- M. Insulation and climate control
- N. Chimneys and fireplaces
- O. Electrical requirements
- P. Plumbing
- Q. Interior and Exterior trim and wall coverings

Unit IV – Floor Plan Development

- A. Symbols
- B. Dimensions and Notes
- C. Paper-pencil Layout
- D. CAD Layout

Unit V – Supplemental Plans

- A. Electrical Plan
- B. Mechanical Plan(s)
- C. Exterior Elevations
- D. Cabinet Elevations
- E. Foundation and Footing Plans
- F. Wall Sections and Details
- G. Framing Plan(s)
- H. Interior and Exterior 3D Views

COURSE EVALUATION:

Each lab assignment should be completed during the scheduled lab period. Lab assignments are due at the beginning of the next regular class period. Late work will be penalized 10 points for each day it's late. Work more than one week late will receive a zero.

Each student is expected to individually complete all drawing exercises for each of the units in this course. Penalties will be assessed for work, which is turned in late. Each student will also complete unit tests plus a comprehensive final exam. The final grade for the course will be averaged as follows:

Drawing assignments	40%
Unit Exams and Final Exam	40%
Quizzes	10%
Journal / Class Notes	10%

EXAMS/TESTS:

A. Exams - 3 major unit exams, plus a final exam will be given during the semester. Most tests will consist of multiple choice, true-false, completion, matching. Problem-solving situations involving use of course software may also be included.

B. Residential Plans - You will complete a small practice floor plan prior to completing your full set of plans. This will allow time to become accustomed to the CAD software. Instructions for the CAD software are not available in your textbook. (They are available as .PDF files on each computer in the lab.)

You will be required to individually complete a floor plan, site plan, electrical plan, exterior elevation plans (4), cabinet elevation plans, cross-section and details, and 3D interior/exterior presentation drawings. Each assignment will have a due date and should be completed during your scheduled lab period. Work is due at the beginning of the next lab period. Late work will be penalized ten points for each day it's late, work more than one week late will receive a zero.

C. Students are required to keep a journal containing notes from lecture and discussions in class. Evaluation of journals will be based on the organization of daily entries, and the quality of details contained in notes.

ASSIGNMENTS: See separate sheet listing tentative assignments and due dates.

ATTENDANCE POLICY:

1. Every student is expected to be present and *on time* for every class. You are tardy whether you come in late or leave early. Roll will be taken at the beginning of each class or lab session; if you are not in your seat, you will be counted absent (three tardies will be counted as one absence). *Accumulate six (6) hours and your grade will drop by a letter, nine (9) hours and it drops by two (2) letters.* In case you are absent, whether excused or unexcused, you are still responsible for the material covered. ***Additional roll checks may be taken toward the end of each class.***

Material and instructions will be disseminated one time only. If you are absent or late, the responsibility for obtaining handouts and information is incumbent on you. You would be wise to establish relationships with fellow students for assuring that you remain well-informed and that you are adequately prepared for exams.

2. Each student should be prepared for class/lab by having carefully read and studied all assigned textbook readings and/or handouts. Each project is to be done on an individual basis. You should expect to spend a **minimum of three to four hours per week** in lab. Drawings / Assignments turned in late will be penalized ten points per day late. **Work will NOT be accepted for credit beyond one week of the due date.** Absences do not exempt you from the responsibility of turning material in on time and they do not extend the due date of the assignment schedule.

- 3: There will not be repeat exams, quizzes, or makeup assignments except for extenuating circumstances (documented illness, family crisis, etc.) or by mutual agreement between the instructor and the student
4. If you have perfect attendance during this course you will have the option to be exempt from taking your final exam. (Documented absences will not count against you.)

ACADEMIC HONESTY:

The University expects all students to engage in all academic pursuits in a manner that is above reproach. Students are expected to maintain complete honesty and integrity in the academic experiences both in and out of the classroom. Any student found guilty of dishonesty in any phase of academic work will be subject to disciplinary action.

If students are found to be cheating or guilty of plagiarism (including copying a drawing):
First time offense will result in the test or assignment being counted as a zero (this applies to the person who copied *and* the person who willingly allowed or supplied the data to be copied). If the student repeats the violation, the course grade will be assigned as 'F'.

CLASSROOM RULES AND CONDUCT:

The lab assistant and instructor will enforce laboratory safety rules for any safety violations. Each safety violation will cause the current lab assignment grade to be dropped by one (1) grade letter for each occurrence. Students who are especially disruptive may be reported to the Dean of Students for disciplinary action in accordance with university policy.

The following are the safety rules:

Cellular telephones and pagers must be turned off before class begins. (If your cell phone rings during class or lab time it will be confiscated for 24 hours.)

Eating, drinking and tobacco products are not allowed.

Talking at inappropriate times, sleeping, horseplay, pranks or other acts of mischief are prohibited.

No equipment may be removed from the laboratory.

STUDENT ABSENCES ON RELIGIOUS HOLY DAYS POLICY:

Section 51.911(b) of the Texas Education Code requires that an institution of higher education excuse a student from attending classes or other required activities, including examinations, for the observance of a religious holy day, including travel for that purpose. A student whose absence is excused under this subsection may not be penalized for that absence and shall be allowed to take an examination or complete an assignment from which the student is excused within a reasonable time after the absence. University policy 861001 provides the procedures to be followed by the student and instructor. A student desiring to absent himself/herself from a scheduled class in order to observe (a) religious holy day(s) shall present to each instructor involved a written statement concerning the religious holy day(s). This request must be made in the first fifteen days of the semester or the first seven days of a summer session in which the absence(s) will occur. The instructor will complete a form notifying the student of a reasonable time frame in which the missed assignments and/or examinations are to be completed.

DISABLED STUDENT POLICY:

It is the policy of Sam Houston State University that no otherwise qualified disabled individual shall, solely by reason of his/her handicap, be excluded from the participation in, be denied the benefits of, or be subjected to discrimination under any academic or Student Life program or activity. Disabled students may request help with academically related problems stemming from individual

disabilities from their instructors, school/department chair, or by contacting the Chair of the Committee for Continuing Assistance for Disabled Students and Director of the Counseling Center, Lee Drain Annex, or by calling (936) 294-1720.

SHSU adheres to all applicable federal, state, and local laws, regulations, and guidelines with respect to providing reasonable accommodations for students with disabilities. If you have a disability that may affect adversely your work in this class, then I encourage you to register with the SHSU Counseling Center and to talk with me about how I can best help you. All disclosures of disabilities will be kept strictly confidential. **NOTE: no accommodation can be made until you register with the Counseling Center**

No assignments will be accepted after 5:00 P.M. on December 07, 2005.

"The above schedule, policies, and assignments in this course are subject to change in the event of extenuating circumstances or by mutual agreement between the instructor and the students."

2 S Sem 2006