

COURSE SYLLABUS
IT 470 / CID 7414 / SECTION 01
CONSTRUCTION PLANS & DOCUMENTS
3 CREDIT HOURS
SUMMER I - 2008

LOCATION: ITB, ROOM 101
MEETING TIME: LECTURE TIME: MONDAY THRU FRIDAY 8:00 – 9:50 AM
INSTRUCTOR: KEITH L. COOGLER
OFFICE: ITB, ROOM 105
CONTACT: OFFICE PHONE: 936.294.1203
FAX: 936.294.1193
E-MAIL: ith_klc@shsu.edu
Office Hours: Posted on bulletin board in foyer of ITB building and at ITB Room 105

COURSE DESCRIPTION:

This course is designed to develop skills in the interpretation of plans and documents associated with the administration of residential and commercial construction projects. Topics include: plan interpretation, construction mathematics, identification of materials and quantities, and materials estimation.

COURSE OBJECTIVES/ FORMAT:

After completion of the course, the student will be able to:

- Identify components of and interpretation of information contained in residential and commercial prints.
- Demonstrate the use of scales and measurements and proficiency in construction mathematics.
- Demonstrate proper and effective use of sketching and drawing to convey ideas and documentation.
- Identify materials and specifications contained on prints.
- Interpret site and plot plans including topographic features.
- Interpret architectural, foundation, framing, and structural (including concrete and steel) plans.
- Interpret mechanical plans including: plumbing, electrical, HVAC, and steel fabrication.
- Prepare construction material cost estimates.

The course will consist of primarily of lecture and student workbook sessions. All students are expected to participate in all assignments.

TEXTBOOK:

Walter C. Brown & Daniel P. Dortmueller (2005). **Print Reading for Construction – Residential and Commercial, Write-in Text with 116 Large Prints.** Goodheart-Willcox Company, Tinley Park, Ill.
ISBN: 1-59070-347-2

EXPECTATIONS:

ATTENDANCE has a major influence on participation, project assignments, and presentation. An absence affects all three grading criteria. If a student is absent, they can not participate. If a student is absent, they can not exhibit their work.

Every student is expected to be present and **on time** for every class. Punctual students are normally annoyed by the disruption of those who continually walk into class late. You are tardy whether you come in late or leave early. I will take roll at the beginning of each class session. An attendance chart will be provided that **YOU** (the student) will identify your seat and sign your name to. If **YOU** (the student) do not sign in, **YOU** will be acknowledging your absence.

Accumulate eight (8) hours absence and your grade will drop by a letter, twelve (12) 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. **I will feel obligated to disseminate material and instructions 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.

Should it become necessary to be absent, please inform the instructor or leave message with the department secretary – Technology program.

936-294-1191

COURSE EVALUATION:

A **minimum** of three examinations (tests) will be given to determine mastery of course content. Exams will constitute 30% of the total grade while workbook activities will be worth 40%. Participation in classroom discussions and participation in workbook sessions is worth 20 %. Research is worth 10% and represents group and individual projects.

Each unit of study consists of review questions, workbook exercises and exams. A minimum of three exams will be given to determine mastery of course content. Exams will constitute 30% of the total grade while workbook and other activities will be worth 70%. Missed work or exams may be submitted or made-up when an excused absence is granted.

Grading shall be according to the following:

| | | |
|------------------------------|------|-----------------------|
| Participation | 20% | (includes attendance) |
| Workbook assignments | 40% | |
| Research Assignments | 10% | (Group & Individual) |
| Group project / Presentation | 5% | |
| Individual Presentation | 5% | |
| Exams | 30% | |
| Total | 100% | |

Course letter grades will be assigned according to the following:

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

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. The University and its official representatives may initiate disciplinary proceedings against a student accused of any form of academic dishonesty including, but not limited to, cheating on an examination or other academic work which is to be submitted, plagiarism, collusion and the abuse of resource materials.

CLASSROOM RULES AND CONDUCT:

Laboratory safety rules must be observed at all times and will be enforced by the instructor and lab assistants. Students will refrain from behavior in the classroom that intentionally or unintentionally disrupts the learning process and, thus, impedes the mission of the university. Cellular telephones and pagers must be turned off before class begins. Students are prohibited from eating in class, using tobacco products, making offensive remarks, reading newspapers, sleeping, talking at inappropriate times, wearing inappropriate clothing, or engaging in any other form of distraction. Inappropriate behavior in the classroom shall result in a directive to leave class. Students who are especially disruptive also may be reported to the Dean of Students for disciplinary action in accordance with university policy. No equipment may be removed from the laboratory.

VISITORS IN THE CLASSROOM:

Unannounced visitors to class must present a current, official SHSU identification card to be permitted in the classroom. They must not present a disruption to the class by their attendance. If the visitor is not a registered student, it is at the instructor's discretion whether or not the visitor will be allowed to remain in the classroom.

DISABILITY STATEMENT:

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.

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 timeframe in which the missed assignments and/or examinations are to be completed.

INSTRUCTOR EVALUATIONS:

All students are asked to complete a course / instructor evaluation near the end of the semester.

COURSE CONTENT / OUTLINE:

1. Construction Drawing Organization
2. Construction Math and Application
3. Reading Measuring Tools
4. Lines and Symbols
5. Freehand Technical Sketching
6. Pictorial Drawings
7. Orthographic Drawings
8. Reading Scales and Dimensioning Drawings
9. Specifications
10. Construction Materials - Types and Uses
11. Plot Plans
12. Foundation Prints
13. Residential Framing Prints
14. Commercial Framing Prints
15. Plumbing Prints
16. HVAC Prints
17. Electrical Prints
18. Welding Prints
19. Estimating Construction Costs

Print Reading Projects

Two-Story Residence
Split-Level Residence
Office Building
Office and Warehouse

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.