ETES 5040/7040 - Construction Systems
Fall Semester 2005

Location & Schedule

Rivers Crossing 156
Mondays: 4:30 – 8:30 p.m. (3 credit hours – 2 lecture; 2 lab)
Final Examination: Monday, December 12th, 4:30 p.m. – 6:30 p.m.
Course web site – http://www.coe.uga.edu/~rhill/etes5040
Note: The course syllabus is a general plan for the course; deviations announced to the class by the instructor may be necessary.

Instructor

Name: Roger B. Hill, Ph.D.
Office: 209 River's Crossing
Office Hours: by appointment
Phone: 542-4100 FAX: (706) 542-4054
Email: rbhill@uga.edu

Recommended Textbooks

Project ProBase Construction Technologies (2005; not yet released)

Feirer, J. L., & Hutchings, G. R. (1990). *Guide to residential carpentry*. Mission Hills, CA: Glencoe. ISBN: 0-02-676320-6.

Other Required Materials

- Safety glasses
- Clothing and foot wear appropriate for light construction activities

Description of Course

The course is designed to engage students in construction practices used to produce structures in the construction types of light, commercial, industrial, and civil. Construction techniques are employed in laboratory activities that center around the phases of light construction. Special instruction will be provided on the use and care of hand and power tools and machines used in career and technical education laboratory programs.

Objectives of the Course

Students who successfully complete this course will be able to:

1. Describe the underlying principles of construction and structural design processes.
2. Analyze basic structural design problems and develop appropriate solutions.
3. Demonstrate safe use of laboratory hand and power tools and machines.
4. Apply appropriate analytical processes in the development of structural design solutions.
5. Demonstrate mastery of terminology relevant to light construction applications.
6. Demonstrate teamwork processes when solving technical construction systems problems.
7. Understand the historical perspective of construction systems and recognize the impact of construction technologies on societies and cultures.

Additional Graduate Level Objectives

8. Explain the various instructional approaches for teaching construction systems as a component of technology education and workforce development.
9. Identify significant streams of research relevant to construction systems.
10. Assess the effectiveness of various curriculum models for construction systems instruction in technology education and workforce development.

Student Activities

1. Study of assigned readings.
2. Completion of assigned exercises, projects, and problems.
3. Participation in class discussions.
4. Completion of periodic papers and examinations.

Evaluation

Class participation.....5%
Assigned exercises, laboratory activities, field experiences, and presentations 55%
Mid-term examination.....20%
Final examination.....20%

Grading Scale: A ---------- 90-100
B ---------- 80-89
C ---------- 70-79
D ---------- 60-69
F ---------- 0-59

Class Participation

Punctuality and attendance are important to successful completion of requirements for this course. For that reason, attendance will be taken at each class meeting. The class participation portion of the course evaluation will be based on punctual attendance to all class meetings, participation in class discussions, and appropriate care of computer equipment.

Note: Students with disabilities who require reasonable accommodations in order to participate in course activities or meet with course requirements should contact the instructor during regular office hours or by appointment.

Exercises, Projects, and Learning Activities

Several exercises, projects and learning activities will be used throughout the term to provide problem solving experience and opportunities for enriching the content covered in class. All written work should be prepared using appropriate word processor and printing technology and should be checked for correct spelling, punctuation, grammar, and usage.

Teaching Presentation. Students registered for ETES 7040 will complete additional graduate level objectives through participation in a teaching presentation. The topic to be presented will be agreed upon in consultation with the course instructor.

Field Experience

A portion of the course requirements will require field experiences that provide opportunities for hands-on learning activities related to light construction. Arrangements will be made for these activities to be completed through work on Habitat for Humanity houses, community service

projects, or other similar opportunities. Details and documentation requirements for this aspect of the course will be provided following in-class discussions.

Examinations

There will be two (2) examinations during the term, a midterm (covering material from the first class meeting to the date of the exam) and a final (a comprehensive exam related to any/all material covered during the term). The date and time of the final examination is provided on the first page of this syllabus.

Dishonesty

All academic work must meet the standards contained in *A Culture of Honesty*. Each student is responsible to be informed about those standards before performing any academic work.

Dishonesty of any type, related to completion of course assignments, examinations, or other required activities is a serious offense. Should such an instance occur, it will be handled in accord with University regulations as described in the current edition of the *Graduate Bulletin.*

Drop Policy

The drop policy is described in the Schedule of Classes. If circumstances arise that will prevent a student from adequately fulfilling course requirements, it is important to address procedures to drop the class prior to the mid-point of the term.