

# Course Syllabus

## CNST 3410

### Fall 2008

Fall Semester 2008

Course: CNST 3410; Construction Estimating (Quantity Surveying): 3 credit hours

Prerequisite(s): CNST 3000, CNST 3160; or permission of Instructor and/or Dept. Head

Classroom: H321

Class Periods: Tuesday and Thursday; 8:05 – 8:55 PM

Text: National Estimator

Other Refs:

**Grading Policy:** 3 quizzes, 20% each; 1 paper, 5%; 5 homework assignments , 5% each; final project, 10%

**Instructor:** James A. Johnson

**Office Hours:** N/A

**Telephone:** 678-640-4770 (cell)

**E-mail:** [jjohnson@heery.com](mailto:jjohnson@heery.com)

Class	Date	Subject of Lecture/Lab
1	8-19-08	Introduction to Quantity Surveying; grading policy; National Estimator software
2	8-21-08	Distribute CD containing drawings and specs for estimating project
3	8-26-08	Digitizer; sitework takeoff methods; introduce grid method of earthwork estimating
4	8-28-08	Concrete flatwork takeoff methods and pricing in National Estimator
5	9-2-08	Concrete footings takeoff methods and pricing in National Estimator
6	9-4-08	Guest Speaker: Sitework and concrete

# Course Syllabus

## CNST 3410

### Fall 2008

7	9-9-08	Review for Quiz #1
8	9-11-08	Quiz #1 (Sitework; concrete; )
9	9-16-08	Masonry takeoff methods and pricing in National Estimator
10	9-18-08	Misc. metals takeoff methods and pricing in National Estimator
11	9-23-08	Guest speaker: Masonry
12	9-25-08	Rough and finish carpentry takeoff methods and pricing in National Estimator
13	9-30-08	Thermal and moisture protection takeoff methods and pricing in National Estimator
14	10-2-08	Doors and hardware takeoff methods and pricing in National Estimator
15	10-7-08	Review for Quiz #2
16	10-9-08	Quiz #2 (Masonry; misc. metals; carpentry; thermal and moisture protection; doors and hardware)
17	10-14-08	Window takeoff methods and pricing in National Estimator
18	10-16-08	Drywall takeoff methods and pricing in National Estimator
19	10-21-08	Drywall takeoff methods and pricing in National Estimator (cont'd)
20	10-23-08	Wall finishes takeoff methods and pricing in National Estimator
21	10-28-08	Floor and ceiling finishes takeoff methods and pricing in National Estimator
22	10-30-08	Guest speaker
23	11-04-08	Specialties takeoff methods and pricing in National Estimator
24	11-06-08	Equipment takeoff methods and pricing in National Estimator
25	11-11-08	Review for Quiz #3
26	11-13-08	Quiz #3

# Course Syllabus

## CNST 3410

### Fall 2008

27	11-18-08	Estimating General Conditions, overhead and profit
28	11-20-08	Special topics and trends
29	11-25-08	Special topics and trends
30	11-27-08	Thanksgiving Holiday
31	12-2-08	Review semester
32	12-4-08	Final Project Estimate Due

NOTE: *This syllabus is intended to represent the general format of the class. The instructor may make changes if it is determined that such changes will better suit the needs of the students.*

#### **Catalog Description:**

This course concentrates on methods and techniques for material takeoffs in order to prepare the student for advanced estimating classes. A key requirement is the completion of a quantity survey for a commercial construction project.

#### **Learning Outcomes:**

1. Read and understand construction drawings, especially dimensions and symbols
2. Read and understand specifications and how they impact material takeoffs
3. Organizing quantity surveys into meaningful estimate formats for pricing
4. Perform quantity surveys for all CSI Divisions (except Mechanical and Electrical) for a commercial project.
5. Instructor will provide each student with a CD containing drawings and specifications

#### **Specific Requirements for the Course: "National Estimator" software**

**Project:** Can be done individually or in teams. Project is due on last day of class, although progress reports will be required periodically to ensure adequate progress is being made. Project entails a complete takeoff, or quantity survey, and pricing for CSI Divisions selected by the instructor. At instructor's discretion late submittals MAY be rejected.

# **Course Syllabus**

**CNST 3410**

**Fall 2008**