

Oklahoma State University Institute of Technology
Face-to-Face Common Syllabus
Fall 2017

BLD 2303 ESTIMATING II

Extensive use is made of contract documents for quantity take off, pricing and bid preparation. Students also learn the development of unit labor and material prices, output and production, methods of approximate estimating and how subcontractors and material suppliers bid and give quotations.

Course Purpose:

The purpose of this course is to prepare the student for estimating projects, change orders, and other estimating tasks typically required of a career in commercial construction.

Type of Course: Theory/Lab

Credit Hours: 3; Total clock hours of theory per semester: 30 ;

Total clock hours of lab per semester: 45.

Class Length: Full Semester

Class Days and Times: Varies by section. MWF 7:30 – 9:10 or 9:30 – 11:10

Prerequisites: CNS 1303 and CS 1013

Instructor Name: Darren Woodard

Instructor Phone: (918) 293-4738

Office: CNS1 Room # 105

Instructor Email: darren.woodard@okstate.edu

Contact: My preferred method of contact is e-mail. Please allow 24-48 hours to return your correspondence during the normal work week.

Instructor's Office Hours: Posted on office door or by appointment.

School Name: Construction Technologies

School Main Phone: 918-293-4742

REQUIRED TEXT, REFERENCES, AND MATERIALS

Texts: Walkers Building Estimators Reference Books, ISBN#978-0911592-30-6

References: Estimating in Building Construction 6th Edition , Frank R. Dagostino

Materials: Calculator, Architect & Engineer Scales, Highlighters, Graph Paper, Notebook, USB Flash Drive

Uniform/Tools: Proper clothes must be worn in both classroom and lab settings. Attire during lab periods shall comply with the construction industry's norms and standards.

Estimated Cost for Materials: \$ 250.00

Estimated Cost for Uniform/Tools: None

Optional Resources: None

Upon completion of the course, students should:

Course Objectives	Assessment of Objectives
Demonstrate an understanding of the various types of bids; be familiar with general conditions.	Homework, Lab Exercises, Quizzes, Tests and class participation
Calculate output and production; be familiar with overhead & contingencies.	Homework, Lab Exercises, Quizzes, Tests and class participation
Interpret specifications instructions for bid, organization and planning the estimate.	Homework, Lab Exercises, Quizzes, Tests and class participation
Organize and plan the estimate; prepare a bid package or proposal.	Homework, Lab Exercises, Quizzes, Tests and class participation
*1.4 Demonstrate an understanding of contract documents and procedures.	Final Test/Project
*2.1 Identify and explain the different contract types	Final Test/Project
*2.2 Accurately execute quantity take offs	Final Test/Project
*2.3 Estimate labor cost	Final Test/Project
*2.4 Demonstrate the difference in, labor burden, overhead, and profit	Final Test/Project

Aspects of the course objective assessments may be used in the university's assessment of student learning. If applicable, an asterisk (*) above indicates this assignment is used in the university assessment program.

COURSE ACTIVITIES

In this course students will:

- Participate in class discussions and activities.
- View videos that depict the various concepts.
- Take examinations.
- Complete reading assignments.
- May be required to do quizzes.
- Complete lab exercises

EVALUATION - GRADES WILL BE BASED ON THE QUALITY AND COMPLETION OF THESE TASKS:

Lab Assignments	75%
Participation	10%
*Final Project	15%
Total	<u>100%</u>

OSUIT Grading Scale
A = 90% -100%
B = 80% -89%
C = 70% -79%
D = 60% -69%
F = 59% & below

*The student's grade for this assignment will be used in the university's assessment of student learning. A 70% competency or higher receives a Pass rating. This Pass/Fail rating is independent of the student's course grade.

Daily and/or weekly quizzes, small weekly assignments and similar type projects: Normal return time to student by next class meeting or no later than one (1) week.

Extensive assignments, large lab projects, extensive quizzes, exams and similar type projects: Normal return time to students in one (1) to two (2) weeks.

RECOMMENDED STUDENT COMPETENCIES/SKILLS

Perform accurate quantity takeoffs
 Read and interoperate construction documents

AUTHORIZED TOOLS

Students may use any/all course materials, including books and notes, while participating in classroom activities. All quizzes and written assignments are to be completed independently; no collaboration with classmates is permitted and any instance of such will be considered academic dishonesty.

LATE WORK

No late work will be accepted, unless arrangements have been made prior to the due date.

TESTING

Refer to “Academic Dishonesty” in the syllabus attachment

OTHER LAB AND CLASSROOM POLICIES

None

SYLLABUS ATTACHMENT

View the Syllabus Attachment, which contains other important information, by visiting http://osuit.edu/center/student_syllabus_information

Course Schedule			
Course Outline Schedule	Topic	Assignment	Due Date
<i>Day 2 Week 1</i>	<i>Syllabus & Review of Est 1</i>	<i>View Power point Take Notes</i>	<i>NA</i>
<i>Day 3 Week 1</i>	<i>Contract Types</i>	<i>View Power point Take Notes</i>	<i>NA</i>
<i>Day 1 Week 2</i>	<i>Types of Bonds & General Conditions</i>	<i>View Power point Take Notes</i>	<i>NA</i>
<i>Day 2 Week 2</i>	<i>Site Work Bluk Excavation Grade Work</i>	<i>View Power point Take Notes</i>	<i>NA</i>
<i>Day 3 Week 2</i>	<i>Site Work Estimate</i>	<i>Quatity Take off/Detailed Estimate</i>	<i>NA</i>
<i>Day 1 Week 3</i>		<i>Quatity Take off/Detailed Estimate</i>	<i>NA</i>

<i>Day 2 Week 3</i>		<i>Quantity Take off/Detailed Estimate</i>	<i>NA</i>
<i>Day 3 Week 3</i>		<i>Quantity Take off/Detailed Estimate</i>	<i>NA</i>
<i>Day 1 Week 4</i>		<i>Quantity Take off/Detailed Estimate</i>	<i>NA</i>
<i>Day 2 Week 4</i>		<i>Estimate Due at Beginning of Class</i>	<i>27-Sep</i>
<i>Day 3 Week 4</i>	<i>Concrete Rebar & Form work</i>	<i>View Power point Take Notes</i>	<i>NA</i>
<i>Day 1 Week 5</i>	<i>Concrete, Rebar & Form work Estimate</i>	<i>Quantity Take off/Detailed Estimate</i>	<i>NA</i>
<i>Day 2 Week 5</i>		<i>Quantity Take off/Detailed Estimate</i>	<i>NA</i>
<i>Day 3 Week 5</i>	<i>ASC Educators Conference Dallas TX</i>	<i>Quantity Take off/Detailed Estimate</i>	<i>NA</i>
<i>Day 1 Week 6</i>		<i>Quantity Take off/Detailed Estimate</i>	<i>NA</i>
<i>Day 2 Week 6</i>		<i>Estimate Due at Beginning of Class</i>	<i>11-Oct</i>
<i>Day 3 Week 6</i>	<i>Masonry, Brick, CMU, Reinforcement, & Mortar</i>	<i>View Power point Take Notes</i>	<i>NA</i>
<i>Day 1 Week 7</i>	<i>Masonry, Brick, CMU, Reinforcement, & Mortar Estimate</i>	<i>Quantity Take off/Detailed Estimate</i>	<i>NA</i>
<i>Day 2 Week 7</i>		<i>Quantity Take off/Detailed Estimate</i>	<i>NA</i>
<i>Day 3 Week 7</i>		<i>Quantity Take off/Detailed Estimate</i>	<i>NA</i>
<i>Day 1 Week 8</i>		<i>Quantity Take off/Detailed Estimate</i>	<i>NA</i>
<i>Day 2 Week 8</i>		<i>Estimate Due at Beginning of Class</i>	<i>25-Oct</i>
<i>Day 3 Week 8</i>	<i>Metals, Structural Steel, Decking, Joist, Miscellaneous metals</i>	<i>View Power point Take Notes</i>	<i>NA</i>
<i>Day 1 Week 9</i>	<i>Metals, Structural Steel, Decking, Joist, Miscellaneous metals Estimate</i>	<i>Quantity Take off/Detailed Estimate</i>	<i>NA</i>
<i>Day 2 Week 9</i>		<i>Quantity Take off/Detailed Estimate</i>	<i>NA</i>
<i>Day 3 Week 9</i>		<i>Quantity Take off/Detailed Estimate</i>	<i>NA</i>

<i>Day 1 Week 10</i>		<i>Quantity Take off/Detailed Estimate</i>	<i>NA</i>
<i>Day 2 Week 10</i>		<i>Estimate Due at Beginning of Class</i>	<i>8-Nov</i>
<i>Day 3 Week 10</i>	<i>Wood, Structural Framing, & Misc Wood Blocking</i>	<i>View Power point Take Notes</i>	<i>NA</i>
<i>Day 1 Week 11</i>	<i>Wood, Structural Framing, & Misc Wood Blocking</i>	<i>Quantity Take off/Detailed Estimate</i>	<i>NA</i>
<i>Day 2 Week 11</i>		<i>Quantity Take off/Detailed Estimate</i>	<i>NA</i>
<i>Day 3 Week 11</i>		<i>Quantity Take off/Detailed Estimate</i>	<i>NA</i>
<i>Day 1 Week 12</i>		<i>Estimate Due at Beginning of Class</i>	<i>20-Nov</i>
<i>Day 2 Week 12</i>	<i>Thanksgiving Break</i>		
<i>Day 3 Week 12</i>	<i>Thanksgiving Break</i>		
<i>Day 1 Week 13</i>	<i>Begin Final Estimate Project</i>	<i>Prepare for Bid Day</i>	
<i>Day 2 Week 13</i>		<i>Prepare for Bid Day</i>	
<i>Day 3 Week 13</i>		<i>Prepare for Bid Day</i>	
<i>Day 1 Week 14</i>		<i>Prepare for Bid Day</i>	
<i>Day 2 Week 14</i>		<i>Prepare for Bid Day</i>	
<i>Day 3 Week 14</i>		<i>Prepare for Bid Day</i>	
<i>Day 1 Week 15</i>		<i>Prepare for Bid Day</i>	
<i>Day 2 Week 15</i>		<i>Final Project Bid Day</i>	<i>13-Dec</i>
<i>Day 3 Week 15</i>		<i>Review</i>	<i>15-Dec</i>
<i>Christmas Break</i>			

Schedule is subject to change at instructor discretion.