

Course Number: BA 2720

Course Title: Construction Estimating

Course Description:

This course introduces students to the elements involved in the preparation of the contractor's bid proposal. Students will explore performing quantity takeoffs, determining crew sizes, and calculating daily outputs and unit costs. The organization of bid packages for general and subcontracted work will be discussed including unit prices for labor, material, equipment productivity factors, overhead and profit. Students will engage in conceptual estimating methods and cost variance analysis.

Prerequisites: BA 2620

Credit hours: 3

Learning Outcomes:

Upon the successful completion of this course, students will be able to:

1. Describe the components of the bidding documents and the detailed estimate.
2. Perform quantity takeoffs involving several different aspects of construction.
3. Prepare a bid estimate using construction industry-related estimating data.
4. Prepare a bid proposal form with costs derived from your own estimate as well as evaluating subcontractor quotations.
5. Prepare a conceptual estimate for a proposed project using different methods.
6. Explain the potential ethical issues found in the construction bidding process.



College of Professional Studies

BA 2720 CONSTRUCTION ESTIMATING

Online Course Syllabus

Instructor Information

Please see Professor Profile at the Blackboard instructional site.

Course Schedule

Please see Course Schedule in the Course Syllabus area of the Blackboard instructional site.

Online Course Policies

All of the online courses taken by students are required to follow the policies posted online at <http://online.indianatech.edu/tech-policies/policies/>. Please review the posted policies carefully. If you are unable to abide by the policies listed, please contact the Warrior Information Network (WIN) at 888.832.4742 and request to withdraw from this course.

Textbook

There is one eBook utilized in this course, in addition to a set of electronic plans and specifications for the White Lake Fire Station project, as well as other articles and other websites which supplement this material. Access information and citations for these resources are provided within the course Modules (in the Module Learning Resources folders).

Del, P. W. J. (2012). *Estimating building costs for the residential and light commercial construction professional*. ProQuest Ebook Central <https://ebookcentral.proquest.com>

Grading Events & Grading Criteria

Unless otherwise specified, all assignments must be submitted via Blackboard.

Assignment	Points
Course Preparation Quiz 1@ 20pts each	20 pts
Module Discussions (Modules 2 – 6) 5 @ 25 pts each	125 pts
Module Quizzes (varying points per quiz) 6 quizzes	105 pts
Module Assignments	710 pts
Tech Live Session Reflections 6 @ 10 pts each	60 pts
Total	1,020 pts

Module Discussions

For each Module, we will have discussions as part of course activities. To encourage interaction, students will post an initial post by Wednesday at 11:59pm, and then will post replies to at least 2 classmates by Saturday at 11:59pm. Responses to classmates should further the discussion by

providing detailed feedback, asking questions, providing additional examples, etc. Students should refer to the grading rubric posted for each discussion.

Tech Live & Office Hours

Every week, your instructor will host a live session using Blackboard Collaborate. This is a great opportunity to engage with your instructor and classmates. Your instructor will be able to provide an overview of the work for the coming week, cover more difficult topics, and also share their expertise with you. The Tech Live sessions are **optional** and will be recorded so that you can watch if you are not able to attend in real-time. Students are asked to complete a weekly reflection about the Tech Live session, and this can be completed based upon attending in person, or by viewing the recording of the Tech Live session.

Your instructor will also host a one-hour session for office hours using Collaborate. During this time, you can join Collaborate and ask questions on any weekly content or assignments. Office hours are also optional to attend, and you may still ask any questions via email or phone call.

Grading Scale

The following grading scale will be used to assign a grade at the end of the course:

Percentage Achieved	Grade
93% or above	A
90% or above	A-
87% or above	B+
83% or above	B
80% or above	B-
77% or above	C+
73% or above	C
70% or above	C-
60% or above	D
Below 70%	F

Late Assignments

All assignments and required online activities are due according to the deadline listed in the course schedule. Granting deadline extension is the course instructor's autonomy.

Incompletes

If you are unable to complete the requirements for this course due to extenuating circumstances, an Incomplete grade (I) may be granted if you meet the general guidelines stated below.

General Guidelines for submitting a course incomplete request:

- More than 50% of the course session has elapsed.
- The student has encountered an unexpected situation that is beyond his or her control.
- The student is

- in good academic standing -- up-to-date on all of the course assignments and has at least an overall passing grade,
- able to complete all of the remaining coursework within a session (5 weeks for a undergraduate course and 6 weeks for a graduate course) that immediately follows the session the student is currently enrolled, and
- able to provide support documentations to substantiate the need for extra time should a session is not enough to complete the course requirements.

If an Incomplete is granted, the instructor will set a deadline for all work to be completed. **The deadline cannot go past one (1) session.** All incomplete grades and deadlines are subject to approval by the designated university authority.

Course Related Communication

Online courses are conducted in an accelerated format. Timely communication is very important. When receiving emails from your classmates or instructor, please respond as soon as you can.

Students are REQUIRED to use their Indiana Tech email account for all course related communication. The most direct, and effective, way to email your course instructor and classmates, is by using the Send Email function within the Blackboard course site. When you use the Send Email function, you automatically receive a carbon copy of the email you sent. In the event when you need to substantiate your claim that you did email your classmates or instructor, you can show that carbon copy to the person(s) who requested it.

Please note that Blackboard only permits you to send email, it does not provide you with the check email function. All of the emails your classmates and instructor send to you will be delivered to your Indiana Tech email account. You are strongly encouraged to check your Indiana Tech email account regularly, preferably several times a week, to minimize the likelihood of miscommunication.

The University policy requires each online course instructor to respond to a student's email within 24 hours. Unless there is an extraneous situation that prevents the instructor from following this rule, you can expect to hear from the instructor within 24 hours. If you don't receive a reply within 24 hours, please do not hesitate to follow up with another email or forward the carbon copy of the email you sent to OnlineSupport@IndianaTech.edu with a note "Please help. It's been 24 hours and I have not heard from my instructor" and the University support staff will act on your behalf to contact your course instructor.