

The Counseling Center at A&M-Commerce, located in the Halladay Building, Room 203, offers counseling services, educational programming, and connection to community resources for students. Students have 24/7 access to the Counseling Center's crisis assessment services by calling 903-886-5145. For more information regarding Counseling Center events and confidential services, please visit [www.tamuc.edu/counsel](http://www.tamuc.edu/counsel)

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**CONE 321 Construction Estimating**  
COURSE SYLLABUS: FALL 2024  
T-R 11:00 am-12:15 pm - Location: AGIT118A

**INSTRUCTOR INFORMATION**

**Instructor:** Ayman Elzohairy,  
Assistant Professor - Department of Engineering and Technology.

**Office Location:** Room 129

**Office Hours:** **M** (9:00 am – 10:00 am) and (12:00 pm – 2:30 pm)  
**T** (10:00 am – 11:00 am) and (12:00 pm – 2:30 pm)  
**W** (9:00 am – 10:00 am)

**Office Phone:** 903-468-8683

**Office Fax:** 903-886-5960

**Email Address:** Ayman.Elzohairy@tamuc.edu

**Preferred Form of Communication:** E-mail

**Communication Response Time:** Emails will be responded to on the same day. Feel free to send an email at any time. Emails received during the weekend will be responded to in the evening on the same day.

**COURSE INFORMATION**

Materials – Textbooks, Readings, Supplementary Readings

**Textbook(s) Required: “Optional”**

- Fundamentals of Construction Estimating, 4th Ed. by David Pratt, Cengage Learning | Publication Date: January 1, 2018| ISBN-10: 1337399396| ISBN-13: 978-1337399395 (No need to purchase).
- Construction Estimating Using Excel, 3rd Ed., Steven Peterson, 2018, Pearson ISBN: 978-0134405506 (No need to purchase).
- Building Construction Costs (RSMMeans 2018) ISBN: 978-1946872012 (No need to purchase).

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### **Course Description**

Study of the principles and application of construction estimating including quantity takeoff, pricing of materials, classification of work, labor, overhead, specifications, bid procedures, and project scheduling. Students will be introduced to computerized estimating and scheduling software. Prerequisites: CONE 221 with a minimum grade of C and ENGR 2308 with a minimum grade of C.

### **Student Learning Outcomes:**

Upon completion of the course, the student will have:

1. Study of the principles and application of construction estimating.
2. Study the quantity takeoff, pricing of materials, classification of work, labor, overhead, specifications, bid procedures, and project scheduling.
3. Students will be introduced to computerized estimating and scheduling software.

## **COURSE REQUIREMENTS**

### **Minimal Technical Skills Needed:**

Using the learning management system, D2L, and using Microsoft Word and PowerPoint.

### **Instructional Methods:**

This course is an enhanced course. This means course materials and lecture notes will be provided via a course website on D2L. All announcements will be posted on the course website as well. Assignments will be asked to be submitted in class or on the course website. Students' grades for assignments and exams will be indicated on the submitted papers if available and on the course website.

### **Student Responsibilities or Tips for Success in the Course:**

It is a student's responsibility to log in to D2L on time to read announcements, access necessary course materials, submit assignments, and answer quiz questions whenever required. Students can set up their D2L account such that they will receive notifications via emails and/or text messages from D2L when there are new updates on our course website. For more details about how to access the course website, read all the subsections of Section ACCESS AND NAVIGATION of this syllabus.

## **GRADING**

### **Final grades:**

In this course will be based on the following scale:

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A = 90%-100%

B = 80%-89.9%

C = 70%-79.9%

D = 60%-69.9%

F = 59.9% or Below

### **Assessments:**

The student's final grade will be assessed based on the following:

1. Assignments (25%)
2. Exam-I (25%)
3. Exam-II (25%)
4. Term Project Report and Presentation (25%)

## **TECHNOLOGY REQUIREMENTS**

All course sections offered by Texas A&M University-Commerce have a corresponding course shell in the myLeo Online Learning Management System (LMS). Below are the technical requirements

LMS Requirements:

<https://community.brightspace.com/s/article/Brightspace-Platform-Requirements>

LMS Browser Support:

[https://documentation.brightspace.com/EN/brightspace/requirements/all/browser\\_support.htm](https://documentation.brightspace.com/EN/brightspace/requirements/all/browser_support.htm)

YouSeeU Virtual Classroom Requirements:

<https://support.youseeu.com/hc/en-us/articles/115007031107-Basic-System-Requirements>

## **ACCESS AND NAVIGATION**

You will need your campus-wide ID (CWID) and password to log into the course. If you do not know your CWID or have forgotten your password, contact the Center for IT Excellence (CITE) at 903.468.6000 or [helpdesk@tamuc.edu](mailto:helpdesk@tamuc.edu).

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**Note:** Personal computer and internet connection problems do not excuse the requirement to complete all course work in a timely and satisfactory manner. Each student needs to have a backup method to deal with these inevitable problems. These methods might include the availability of a backup PC at home or work, the temporary use of a computer at a friend's home, the local library, office service companies, Starbucks, a TAMUC campus open computer lab, etc.

## COMMUNICATION AND SUPPORT

If you have any questions or are having difficulties with the course material, please contact your Instructor.

### Technical Support

If you are having technical difficulty with any part of Brightspace, please contact Brightspace Technical Support at 1-877-325-7778. Other support options can be found here:

<https://community.brightspace.com/support/s/contactsupport>

### Interaction with Instructor Statement

In general, discussing your questions and/or concerns during office hours with me is the most efficient way to communicate and to get help you need.

If you cannot visit my office during the office hours, it is preferred for you to send me emails with your questions. Please add “[Course Prefix and #]” in the subject title so that I recognize which course and section you are inquiring about. Please be as specific as possible in describing subjects and/or concepts you need more assistance from me.

As indicated at the beginning of this syllabus, all emails will be responded in the same day including weekends. Feedbacks and grading of your assignments and exams will be provided in a week from the due date/time.

## COURSE AND UNIVERSITY PROCEDURES/POLICIES

**A&M-Commerce requires the use of face-coverings in all instructional and research classrooms/laboratories. Exceptions may be made by faculty where warranted. Faculty have management over their classrooms. Students not using face-coverings can be required to leave class. Repetitive refusal to comply**

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can be reported to the Office of Students' Rights and Responsibilities as a violation of the student Code of Conduct.

Students should not attend class when ill or after exposure to anyone with a communicable illness. Communicate such instances directly with your instructor. Faculty will work to support the student getting access to missed content or completing missed assignments.

### **Class Attendance Requirements**

You will not receive a grade deduction for your absences up to three times.

### **Assignments and Late Assignments Policy:**

1. All assignments should be submitted at the beginning of the class on the due date.
2. A few problems from an assignment will be selected to be graded for the correctness of procedures and their answers.
3. Remainder of the assignment will be graded for completeness of your solution procedures.
4. Late assignments will be accepted until the next lecture period with a 50% grade deduction.

### **Missed Exams and Quizzes Policy**

Unless prior arrangements are worked out with the instructor, a zero-grade will be awarded for a missed exam or quiz.

### **Syllabus Change Policy:**

The syllabus is a guide. Circumstances and events, such as student progress, may make it necessary for the instructor to modify the syllabus during the semester. Any changes made to the syllabus will be announced in advance.

### **University Specific Procedures:**

#### ***Student Conduct:***

All students enrolled at the University shall follow the tenets of common decency and acceptable behavior conducive to a positive learning environment. The Code of Student Conduct is described in detail in the [Student Guidebook](http://www.tamuc.edu/admissions/registrar/documents/studentGuidebook.pdf). <http://www.tamuc.edu/admissions/registrar/documents/studentGuidebook.pdf>

Students should also consult the Rules of Netiquette for more information regarding how to interact with students in an online forum: [Netiquette](#)

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<http://www.albion.com/netiquette/corerules.html>

### **TAMUC Attendance**

For more information about the attendance policy please visit the [Attendance](#) webpage and [Procedure 13.99.99.R0.01](#).

<http://www.tamuc.edu/admissions/registrar/generalInformation/attendance.aspx>

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/academic/13.99.99.R0.01.pdf>

### **Academic Integrity**

Students at Texas A&M University-Commerce are expected to maintain high standards of integrity and honesty in all of their scholastic work. For more details and the definition of academic dishonesty see the following procedures:

[Undergraduate Academic Dishonesty 13.99.99.R0.03](#)

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/undergraduates/13.99.99.R0.03UndergraduateAcademicDishonesty.pdf>

[Graduate Student Academic Dishonesty 13.99.99.R0.10](#)

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/13students/graduate/13.99.99.R0.10GraduateStudentAcademicDishonesty.pdf>

### **ADA Statement**

#### ***Students with Disabilities***

The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a disability requiring an accommodation, please contact:

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### ***Office of Student Disability Resources and Services***

Texas A&M University-Commerce

Gee Library- Room 162

Phone (903) 886-5150 or (903) 886-5835

Fax (903) 468-8148

Email: [Rebecca.Tuerk@tamuc.edu](mailto:Rebecca.Tuerk@tamuc.edu)

Website: [Office of Student Disability Resources and Services](http://www.tamuc.edu/campusLife/campusServices/studentDisabilityResourcesAndServices/)

<http://www.tamuc.edu/campusLife/campusServices/studentDisabilityResourcesAndServices/>

### **Nondiscrimination Notice**

Texas A&M University-Commerce will comply in the classroom, and in online courses, with all federal and state laws prohibiting discrimination and related retaliation on the basis of race, color, religion, sex, national origin, disability, age, genetic information or veteran status. Further, an environment free from discrimination on the basis of sexual orientation, gender identity, or gender expression will be maintained.

### **Campus Concealed Carry Statement**

Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in Texas A&M University-Commerce buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and A&M-Commerce Rule 34.06.02. R1, license holders may not carry a concealed handgun in restricted locations.

For a list of locations, please refer to the [Carrying Concealed Handguns On Campus](#) document and/or consult your event organizer.

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Web url:

<http://www.tamuc.edu/aboutUs/policiesProceduresStandardsStatements/rulesProcedures/34SafetyOfEmployeesAndStudents/34.06.02.R1.pdf>

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all A&MCommerce campuses. Report violations to the University Police Department at 903886-5868 or 9-1-1.

### **A&M-Commerce Supports Students' Mental Health**

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"Texas A&M University-Commerce acknowledges that there are legitimate uses of Artificial Intelligence, ChatBots, or other software that has the capacity to generate text, or suggest replacements for text beyond individual words, as determined by the instructor of the course.

Any use of such software must be documented. Any undocumented use of such software constitutes an instance of academic dishonesty (plagiarism).

Individual instructors may disallow entirely the use of such software for individual assignments or for the entire course. Students should be aware of such requirements and follow their instructors' guidelines. If no instructions are provided the student should assume that the use of such software is disallowed.

In any case, students are fully responsible for the content of any assignment they submit, regardless of whether they used an AI, in any

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way. This specifically includes cases in which the AI plagiarized another text or misrepresented sources.

13.99.99.R0.03 Undergraduate Academic Dishonesty

13.99.99.R0.10 Graduate Student Academic Dishonesty"

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## COURSE OUTLINE / CALENDAR

Week	Subject	
	Tuesday	Thursday
1 8/26 – 8/30	Chapter 1: Introduction to Construction Estimating	Chapter 2: Estimating Process & Preliminary Procedures
2 9/02 – 9/06	Chapter 2: Estimating Process & Preliminary Procedures	Chapter 2: Estimating Process & Preliminary Procedures
3 9/9 – 9/13	Chapter 4: Measuring Earthwork	Chapter 4: Measuring Earthwork
4 9/16 – 9/20	Chapter 5: Measuring Concrete	Chapter 5: Measuring Concrete
5 9/23 – 9/27	Chapter 6: Measuring Masonry, Carpentry & Misc. Items	Chapter 6: Measuring Masonry, Carpentry & Misc. Items
6 9/30– 10/04	Chapter 7: Measuring Masonry, Carpentry & Misc. Items	Chapter 7: Measuring Masonry, Carpentry & Misc. Items
7 10/07– 10/11	Chapter 7: Measuring Masonry, Carpentry & Misc. Items	Chapter 7: Measuring Masonry, Carpentry & Misc. Items
8 10/14 – 10/18	<b>&lt;&lt; MIDTERM EXAM &gt;&gt;</b>	
9 10/21 – 10/25	Chapter 8: Pricing Generally	Chapter 8: Pricing Generally
10 10/28 – 11/01	Chapter 8: Pricing Generally	Chapter 8: Pricing Generally
11 11/04 – 11/08	Chapter 8: Pricing Generally	Chapter 8: Pricing Generally
12 11/11 – 11/15	RSMMeans	RSMMeans
13 11/18 – 11/22	Chapter 10: Pricing the QTO	Chapter 10: Pricing the QTO
14 11/25 – 11/29	<b>&lt;&lt; Thanksgiving Day –Holiday &gt;&gt;</b>	
15 12/02 – 12/06	<b>Term project presentation</b>	
Final Week	<b>&lt;&lt; Final Exam &gt;&gt;</b>	

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