

**CE 2211: Engineering Economics I**  
Spring 2019  
UTEB 150, 12:20 – 1:10 PM on Friday

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**Mentor**

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**Instructor**

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Office Hours: By appointment

**Prerequisite**

MATH 1122 or 1132 (or approved substitution) – generally it is required that the student have a background in calculus.

**Textbook**

- Prescribed textbook for this course is a **custom** text book that is prepared by McGraw-Hill titled “Engineering Economy I: CE 2211”. This book is available at the UConn Co-op. The custom book is a compilation of chapters from Blank, L. and A. Tarquin. Basics of Engineering Economy, 8<sup>th</sup> Edition, McGraw-Hill, 2014.
- Lecture notes and other material will be made available on the HuskyCT course website.

**Course Objective**

The objective of the course is to introduce concepts and approaches from the field of engineering economics that can be applied to assist with decision-making in engineering analysis.

**Course Grading**

Component	Weight
Homework/Quizzes	20%
Midterm Exam	30%
Final Exam	50%

**Participation**

- Attendance and participation in the class is highly recommended.

**Homework/Quizzes**

- There will be a total of 12 homework assignments.
- Each homework assignment will include about 5 problems.
- The homework assignments will **NOT** be collected and graded. Problems from the homework or similar will be used as questions for quizzes. Quizzes will be graded. Highest 10 out of 12 quizzes will be considered for grading.
- Every student must have an iClicker to participate in the quiz.
- Solutions to the homework assignments will be posted in HuskyCT when the relevant quizzes are over.

## **Exams**

- There will be one midterm exam and one final exam
- No makeup exams will be offered without prior arrangement with the instructor
- Students must follow University regulations regarding final exams schedule

## **Class Conduct**

- Attend classes, participate in classroom exercises and discussions, and ask questions
- This is a large class so please be respectful of your fellow students, and your instructor's time. Disruptive behavior of any kind will not be tolerated.
- Use of technology and devices including computers, cellphones and tablets for non-scholastic purposes will not be tolerated. Please turn your cellphones to silent mode at the beginning of the class.

## **Academic Integrity**

Students will be held to the standards laid out in the *The Student Code* --  
<http://community.uconn.edu/the-student-code-preamble/>

## **Communication**

*Student to Instructor*

Email, Office Hours

*Instructor to Students*

HuskyCT

**Note: Please use CE 2211 in the subject of the email to receive timely response**

## Tentative Class Schedule

Week	Date	Topic	Reference Sections	Page Numbers
1	01/25	Introduction / Foundations of Engr. Economy	Ch. 1	1-23
2	02/01	Simple & compound interest/ Cash Flow Diagrams	Ch. 1, 2.1	1 - 23, 33-40
3	02/08	Nominal & Effective Interest / Present & future worth of single payments	Ch. 4.1 - 4.3	71 - 79
4	02/15	Present and future worth of series of payments	Ch. 2.2	40 - 44
5	02/22	Present and future worth of gradient / Shifted Series and Gradients	Ch. 2.3 - 2.7	44 - 52
6	03/01	Equivalence	Ch. 3, Ch. 4.4 - 4.6	78 - 84
7	03/08	<b>Exam 1 Review</b>	Ch. 4.4 - 4.6, Ch. 5	78 - 84
8	03/15	<b>EXAM 1 (B-T: Ch. 1 - 3)</b>		
9	03/22	<b>Spring Break</b>		
10	03/29	Equivalence / Present Worth method intro	Ch. 4.4 - 4.6, Ch. 5	78 - 84
11	04/05	Capitalized Cost/Present worth method intro	Ch. 5	94 - 110
12	04/12	Present worth method for alternative selection	Ch. 5	123 -132
13	04/19	Annual net worth method for alternative selection	Ch. 6	
14	04/26	Rate of Return method for alternative selection	Ch. 7.1 - 7.3, Ch. 8.1, 8.4	141 - 156
15	05/03	Benefit/Cost Analysis/ <b>Review</b>	Ch. 9	181 - 196
<b>**FINAL EXAM - Cumulative (Date/Time TBA)</b>				