ME 320 Exams and Ouizzes. Fall 2023

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Equation Sheet

- The Equation Sheet for the whole course is posted here as a pdf file, Equation sheet ME320.pdf. You should study this equation sheet before a quiz or exam to familiarize yourself with the layout in order to avoid time searching for equations while taking the quiz or exam.
- The equation sheet will be updated/modified as necessary throughout the semester.
- The equation sheet is also a useful reference for homework and for study and for future use.

Quizzes

- Due to the hybrid format of this class, there are *no midterm exams*. Instead, *a short quiz is provided after most lessons*. [Lessons are based on *topic* rather than *time*. Instead of a 50-minute lecture, each lesson is typically under 15 minutes. If a topic takes more than 15 minutes, it is split into shorter parts.]
- On average, expect 4 to 6 lessons per week. Not all lessons have a quiz, but you can expect 4 to 6 quizzes per week with a total of 75 quizzes throughout the 15-week semester.
- Each individual quiz is worth 1% of your final course grade, but you can drop the lowest 10 quiz scores. In total, quizzes are thus worth 65% of your final course grade.
- All quizzes are taken *online in Canvas*. Your score appears on Canvas out of 100 points per quiz.
- Most quizzes are **open-book**, **open-notes**. You may use calculators and computer software (Excel, Matlab, EES, ...). Some qualitative quizzes (terminology and concepts), however, are closed-book, closed-notes.
- A typical quiz is composed of one numerical completion question, testing your knowledge of the lesson material to which it is affiliated. Here is how it works:
 - View the lesson videos on Canvas or directly on YouTube. 0
 - Attend class. I will quickly review a couple lessons and then solve some more example problems. 0
 - Take the quiz associated with each lesson. 0
 - If you do not get the correct answer(s), you can re-take the quiz **up to 4 times**. 0
 - Your final score for the quiz is the average of all your attempts. In this way there is built-in partial credit: 0
 - Get it correct the first time:
 - Get it wrong the first time but correct the second time:
 - Get it wrong the first two times but correct the third time:
 - Get it wrong the first three times but correct the fourth time:
 - Get it wrong all four times:
 - NOTE: Suppose you get the answer wrong the first time (0) but take it 3 more times after you figured out how to do it correctly (with different numerical answers each time, of course). Then you can improve your grade from a 0 to a 75! (0 + 100 + 100 + 100) / 4 =75
 - The deadline for taking a quiz is midnight (actually 11:59 pm to avoid confusion) of the Tuesday of the 0 week after the week in which that lesson is provided. For example, all quizzes for lessons covered in Week 1 must be completed by Midnight Tuesday of Week 2.
- To discourage cheating, some of the numerical values are randomized and are therefore different for each student and for each time a student re-takes the quiz.
- Hint 1: Be careful with units, especially factors of 1000 (J vs. kJ, mg vs. g vs. kg, etc.), typically one of the most common mistakes. It would be a shame to get an incorrect answer because of improper unit conversions.
- *Hint 2*: You are *strongly* encouraged to perform your calculations in Excel, Matlab, EES, or other software. As the semester rolls on, you will find yourself building on to previous calculations; portions of these calculations will then be useful for other quizzes, for homework, and for the final exam.

Midterm Exams

• The quizzes replace midterm exams. Thus, there are no midterm exams.

Final Exam

- The **final exam** will be online. I will give you a range of dates, typically two to three days during finals week. Start and end times for the final exam will be announced here.
- You will have 3 hours to take the final exam; this should give you plenty of time.
- The final exam is *comprehensive*, covering material from the entire semester.
- The final exam is graded out of 100 points and is worth 14% of your final course grade.
- You are strongly encouraged to use software to avoid calculator errors. Always check your units!
- The final exam will consist of 10 questions, 10 points each. *The questions will be similar to the quizzes.* More details are provided on the Final Exam Instruction Sheet to be posted on Canvas.

- 100 (0 + 100) / 2 =50 (0 + 0 + 100) / 3 =33.33 25
- (0 + 0 + 0 + 100) / 4 =
- (0 + + 0 + 0 + 0) / 4 =0