

ME1302 Introduction to Mechanical Engineering

TEXTBOOK: **An Introduction to Mechanical Engineering**, 4th Edition, Jonathan Wickert and Kemper Lewis, Brooks/Cole, 2017 (available from SMU bookstore). **SI Only book not allowed – the SI Only text is missing unit conversions that are required for this course. Additionally, some of the homework problems are different.**

Supplemental materials and reading handouts provided in class, as needed.

It will be useful to bring your textbook to class for in class activities (i.e. problem-solving), quizzes, and exams.

INSTRUCTOR: **Sheila H. Williams**, PhD
Clinical Assistant Professor
Department of Mechanical Engineering
Office Embrey 301A
Shooman@smu.edu

Office Hours: Open door policy

Course description: Introduction to mechanical engineering and the engineering profession, forces in structures and fluids, conservation laws and thermal systems, motion of machinery, engineering design, and basic concepts in intellectual property for mechanical engineers. Current topics in mechanical engineering as appropriate for current events.

GRADES:	ME 1302 Lecture (3 credit hour grade)
	Exam 1 20 % (all exams will be open book, closed notes)
	Exam 2 20 %
	Exam 3 20 %
	Exam 4 20 %
	<u>Homework & quizzes</u> 20 %
	Total 100 %

STUDENT LEARNING OUTCOMES (for ABET undergraduate engineering programs):

A: An ability to apply knowledge of mathematics, science, and engineering.

E: An ability to identify, formulate, and solve engineering problems.

CLASS POLICIES:

1) Cell phone, computer, and other technology policies:

- a. **Cell phones should be silenced and out of sight during lecture.** Texting, emailing, and other phone use during lecture is not allowed. Students failing to adhere to this policy will be asked to leave class.
- b. Laptop and tablet computers are allowed only for the purpose of taking notes or using the electronic version of the textbook. Students failing to adhere to this policy will be asked to leave class and not return.
- c. Students with electronic texts will be required to turn off their wireless adapter and close all other programs other than the textbook during class and exams.
- d. Recording devices are not allowed unless approved by the instructor.

2) Regular homework will be assigned, usually weekly. The following policies must be followed:

- a. Homework is due no later than the date and time specified on each assignment; **late homework will not be accepted for a grade** without prior approval by Professor Willis.
- b. Homework must be **stapled** and include your name at the top of the page. Any specific format or instructions given by the instructor must be followed to receive credit.

c. A maximum of one homework/quiz grade will be dropped at the end of the semester. The homework/quiz average will be calculated as the sum of points earned on all homework and quizzes divided by sum of total possible points.

3) Regular class attendance and participation is required. You are responsible for turning in homework and assignments at the appropriate time. If you must miss class, have a friend bring it to class for you. Pop quizzes may be given throughout the semester.

4) Makeup exams and quizzes will only be given for those students who have made **prior** arrangements or have an approved university excuse. Makeup exams and quizzes may differ from original exam content and may be written or oral.

HONOR CODE:

All students are expected to obey the SMU Honor Code. **The solution manual for our textbook is published for use *only* by instructors.** Students who obtain a copy of the solution manual or copy homework from the solution manual are doing so in violation of the authors' wishes. Using the solution manual for solving your homework problems will be considered an honor code violation and will be sent directly to the Honor Council for review. Additionally, copying homework from someone else (including someone who took the course in a previous semester) will also be considered an honor code violation. Honor code violations will also result in no credit on the relevant assignment(s).

Accommodations

Disability Accommodations: Students needing academic accommodations for a disability must first register with Disability Accommodations & Success Strategies (DASS). Students can call 214-768-1470 or visit <http://www.smu.edu/Provost/ALEC/DASS> to begin the process. Once registered, students should then schedule an appointment with the professor as early in the semester as possible, present a DASS Accommodation Letter, and make appropriate arrangements. Please note that accommodations are not retroactive and require advance notice to implement.

Religious Observance: Religiously observant students wishing to be absent on holidays that require missing class should notify their professors in writing at the beginning of the semester, and should discuss with them, in advance, acceptable ways of making up any work missed because of the absence. (See University Policy No. 1.9.)

Excused Absences for University Extracurricular Activities: Students participating in an officially sanctioned, scheduled University extracurricular activity should be given the opportunity to make up class assignments or other graded assignments missed as a result of their participation. It is the responsibility of the student to make arrangements with the instructor prior to any missed scheduled examination or other missed assignment for making up the work. (University Undergraduate Catalogue)