

Course Syllabus

Course Information

MECH 2320.001

Mechanics of Materials

Fall, 2016

Professor Contact Information

Instructor: Terry V. Baughn

Office: ECSN 3.908

Classroom: JSOM 2.722

Office Hours:

Phone: 972 883-3584

Email: tvbaughn@utdallas.edu

Class Time: Mon, Wed & Fri 9:00 am – 9:50 am

ECSN 3.908 Monday 1:00 to 2:00 PM

Student Services ECSS EC2 2.502 Thursday 12:00 to 1:00 PM

Other hours by appointment

Teaching Assistants:

Soheil Daryadel

Email: sxd156230@utdallas.edu

Phone: 662 607-4303

Office: ECSN 2.124

Office Hours: Tuesday 3 to 5 PM

Other hours by appointment

Jiacheng “Kevin” Haung

Email: jxh124230@utdallas.edu

Phone: tbd

Office: ECSN 2.124

Office Hours: Wednesday 10 to 12 Noon

Other hours by appointment

Course Pre-requisites, Co-requisites, and/or Other Restrictions

Prerequisites: ([MATH 2415](#) or [MATH 2419](#)) and [MECH 2310](#). Corequisite: [MECH 2120](#).

Course Description

Introduction to stress, strain and deformation analysis of basic structural elements subjected to single or multiple loads

An Excel file will be email to you via eLearning which details the assigned chapters and sections covered in the text book.

Student Learning Objectives/Outcomes

1. Calculate stresses and deformations in axially loaded members and torsional bars/shafts.
 2. Determine normal and shear stresses and deflections in beams under bending.
 3. Perform plane stress/strain transformations and calculate principal stresses using Mohr's circle.
-

Required Textbooks and Materials

Text Book: Hibbeler R. C., Mechanics of Materials, 9th Ed.

Anticipated Chapters Covered

Chapter

- 1: Stress
 - 2 Strain
 - 3 Mechanical Properties of Materials
 - 4 Axial Load
 - 5 Torsion
 - 6 Bending
 - 8 Combined Loadings
 - 9 Stress Transformation
-

Suggested Course Materials

tbd

Homework

All homework will be submitted thru the "MasteringEngineering" website. You must register and will need the following information.

1. Go to www.masteringengineering.com.
2. Under the large **Register** section on the right side of the page, and click the **Student** button.
3. Read the onscreen instructions and click **US/Canada**
4. Select **Yes, I have a course ID** and enter your **Course ID** **MEBAUGHN61421** provided by your professor.
5. Next, check off whether or not you have an **Access Code**. If you don't, select your textbook. (see above)
6. After this, either **Create** a new Pearson username/password, or, if you've already registered for another Pearson product (i.e. MyMathLab), enter that username/password. If you have an **Access Code**, enter it on the bottom of the page.

7. On the next page, fill out the appropriate information fields then click **Next**. If you entered an **Access Code**, you will be brought to a page from which you can access your product. If not, enter your payment information so that you can **Purchase Access**, after which you'll be granted access.
8. You are now registered! Now, it's time to sign. Go to www.masteringengineering.com and click the **Sign In** button in the top right. Enter your username and password.

Assignments & Academic Calendar (refer to UTD Academic Calendar)

Classes Begin	August 22, 2016
Late Registration and Last Day to Add/Swap	August 29, 2016
Drop/Withdrawal Deadlines	September 7, 2016
Last Day of Class	December 7, 2016

“Home work will be assigned thru eLearning”

Grading Policy

Home Work	10%
Quizzes	15%
Exam 1	25%
Exam 2	25%
<u>Exam 3</u>	<u>25%</u>
Total	100%

Grading Policy

Grade appeals shall be submitted within *one week* of the return date for the assignment and for quizzes and exams the appeal *must be submitted in writing*. The reason for requesting a re-grade must be clearly stated. Requests submitted later than one week after the return date or not in writing will not be processed. Your personal grades will be posted in eLearning.

Make-up exams

No makeup exams will be given with the exception of a serious emergency.

Late Work

Late work will be graded but not be counted toward your course grade.

Course & Instructor Policies

Class Attendance

Students are expected to attend each class. Quizzes will be given throughout the semester. There will be no makeup work.

Cell phone/electronic device usage

Cell phone and any other type of electronic devices for communication must be turned off during the class. A computer or tablet can **ONLY** be used for the purpose of taking notes or viewing the digital copy of the class text book.

Email usage

Please note that all email communication with regard to the course must be handled through your UT Dallas email address according to University policy.

Comet Creed

This creed was voted on by the UT Dallas student body in 2014. It is a standard that Comets choose to live by and encourage others to do the same:

"As a Comet, I pledge honesty, integrity, and service in all that I do."

Academic Integrity

Academic integrity is a serious matter. Students can discuss assignments but are expected to complete their individual work. Direct copying from someone else or from a solution manual is not permitted. Any violation of the academic conduct policy will be dealt with according to the University Policy.

UT Dallas Syllabus Policies and Procedures

The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus.

Please go to <http://go.utdallas.edu/syllabus-policies> for these policies.

The descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.