Mechanics of Materials
ENGR 2332-66400
Summer 2019, 7/8/2019 – 8/10/2019

Professor: Dr. Uichung Cho (Engineering Division Chair)  Email: ucho@dccc.edu
Office Phone Number: 214.860.8620  Office Number: W107A
Office Hours: MTWR 2-5 pm or by Appointments with Skype (Skype Id: francis.cho)
Class Days & Time: Online Lectures M/T/W/TH, You should be ready to spend 3Hr/Lesson
Class Room: Lecture Slide/Videos on Blackboard for self-paced study & Assignments/Quiz/Exams
on Pearson Mastering Engineering
Credit Hours: 3 Credit Hours

Course Description: Stresses, deformations, stress-strain relationships, torsions, beams, shafts, columns, elastic deflections in beams, combined loading, and combined stresses. (3 Lec.)
Course Pre-requisites: ENGR2301 or the equivalent
Course Materials/Supplies Needed

Core Objectives: This course is designed to help students to understand internal states, viz stress and strain, of structures when external loads (forces and moments) are applied or temperature gradient exists. This subject is important for many branches of engineering, mainly mechanical, civil, aeronautical, and bioengineering, but not limited to. Students will learn the systematic method to apply governing equations to derive normal/shear stresses and structural deformation under specific external loads to evaluate the stability or safety of structures. Students should learn how to design better structures by understanding critical concepts - material properties, failure mechanism, stress/strain transformation and buckling,

Student Learning Outcomes
After successful completion of this course the student will
(1) Be able to estimate and visualize strain and stress of structures under various loads - force, torque, temperature.
(2) Be able to calculate strain and stress of simple structures (e.g., beam, truss, column), which is fundamental to simulate complete structures using computers
(3) Be able to design structures to better support loads
(4) Be able to assess max load structures can support or soundness of structures under specific loads.
Milestones Schedule can be slightly changed. It is your responsibility to check email everyday for the date change notifications. You should let me know at least 1 week ahead if you have issue with the quiz/exam schedules. Your alternative quiz/exam date should be prior to the original date.

Assignments (on Pearson) Midnight, Sunday
Quiz 1 7/14 (Sun), 7-9PM
Mid-Term Exam 7/21 (Sun), 7-10PM
Quiz 2 7/28 (Sun), 7-9PM
Last Day to Withdraw 7/30 (Please discuss your situation before you drop)
Final Exam 8/4 (Sun), 7-10PM

No Class Days (from School Calendar)
NA

Grading (All Assignment/Quiz/Exams are on Pearson)
Homework 20%
Two Quizzes 25%
Mid Term 25%
Final Exam 30%

Late Work Policy: There will be automatic 5% score deduction/day, until it reaches to total 50% deduction. If you miss one quiz or exam with pre-approval, you will get 70% of the compatible score, after normalized by the class average.

Attendance Policy
Students are expected to attend all classes. Students have the responsibility to attend class and to consult with the instructor when an absence occurs. If for some reason you must leave class early, you should inform the instructor prior to the start of class of your reason for leaving early.

Students must begin attendance in all classes of enrollment. No exceptions. Financial Aid will not be granted to students who have been certified as not attending, by the certification date. For this lecture course, your physical participation in class, on or before the certification date will allow you to receive credit for FA purposes. For certification dates, check with the division or FAO for further information. Students, who are not certified as beginning class, are responsible for any payments due as a result of non-certification, to include the dropping of courses.

Students whose classroom attitude negatively impact on other students learning activity will be warned once. If the student’s attitude is not corrected, he/she cannot attend this class any longer.

Academic Dishonesty:
Students that caught plagiarizing an assignment will be subject to an “F” in the course and possible expulsion from the college.

Academic honesty is expected, and integrity is valued in the Dallas County Community Colleges. Scholastic dishonesty is a violation of the Code of Student Conduct. Scholastic dishonesty includes, but is not limited to, cheating on a test, plagiarism, and collusion. As a college student, you are considered a responsible adult. Your enrollment indicates acceptance of the DCCCD Code of Student Conduct published in the DCCCD Catalog.

Institution Policies: Please visit www.mountainviewcollege.edu/syllabipolicies for a complete list of institutional policies (Withdrawal Policy; Repeating a Course; Financial Aid; Academic Dishonesty; Americans with Disabilities Act Statement; Religious Holidays; and Campus Emergency Operation Plan and Contingency Plan.).