Engineering Mechanics I - Statics
ENGR 2301-65400

Professor: Dr. Uichung Cho (Engineering Division Chair)  Email: ucho@dcccd.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: Blackboard & Pearson Mastering Engineering
Credit Hours: 3 Credit Hours

Course Description: Basic theory of engineering mechanics, using calculus, involving the description of forces, moments, and couples acting on stationary engineering structures; equilibrium in two and three dimensions; free-body diagrams; friction; centroids; centers of gravity; and moments of inertia. (3 Lec.)

Course Pre-requisites: PHYS 2425 or the equivalent

Course Materials/Supplies Needed

Core Objectives: This course is designed to help students to understand fundamental principles of structural analysis for many branches of engineering, such as mechanical, civil, aeronautical, and bioengineering, which address the various effects of applied forces. Students will learn the systematic method to apply the principles of Statics, such as force and moment equilibrium of particles and rigid body. They should be able to understand vector analysis and apply it to solve/simulate realistic static engineering problems.

Student Learning Outcomes
After successful completion of this course the student will
(1) Be able to draw complete free-body diagrams and derive appropriate governing equations from the free-body diagram.
(2) Be able to calculate resultant/reaction forces and moments of various realistic structures
(3) Be able to simulate physical vector systems
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 3 days ahead if you have issue with the quiz/exam schedules. Your alternative quiz/exam date should be prior to the original date.

Quiz 1    6/15 (Sat), 7-9PM
Mid-Term Exam  6/22 (Sat), 7-10PM
Quiz 2    6/29 (Sat), 7-9PM
Last Day to Withdraw  6/25 (Please discuss your situation before you drop)
Final Exam   7/6 (Sat), 7-10PM

No Class Days (from School Calendar)
7/4

Grading
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. The final exam is irreplaceable.

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](http://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.).