

**Course Syllabus – mer 2013**  
**CE 2312 : Statics and Dynamics**

**Instructor:** Mostafa Ghandehari

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**Office Hours:** M, W 3:00-5:30 p.m., Tues. 3:00-5:00 p.m. and by appointment.

**Course Content:** The lecture covers principles of forces and force systems, resultants and components of force systems, forces due to friction, condition of equilibrium, forces acting on members of trusses and frame structures, centroids and moments of inertia, review of kinematics and kinetics of particle motion, two-dimensional motion of rigid bodies. The lab period is used for reinforcement of the course principles through problem solving .

**Student Learning Outcomes:**

The objective of this course is to prepare students for courses dealing with engineering design of components and systems based on the fundamentals of statics and dynamics.

**Requirements:** PHYS 1443; MATH 2425 or concurrent registration therein. Student must enroll in the appropriate corresponding lab section (see Class Schedule).

**Required Textbooks:** Engineering Mechanics, Statics & Dynamics, by R. C. Hibbeler, 13th Edition, Prentice Hall

**Major assignments and examinations:**

Homework is due at the beginning of class. Late homework is not accepted. Write on one side only. You may do more than one problem per sheet. Staple the papers together at upper left corner. You can use instructor's office hours to get hint for difficult problems after you have thought about problems. Writing your homework in an organized and clear matter will enhance your learning of the subject.

Two quizzes based on homework. Quizzes are given at the beginning of class the day they are scheduled and have a maximum of 20 minutes allowed. Dates of quizzes will be given at least one week in advance.

Two midterm exam and a final examination. Dates of exams will be given at least a week in advance. Final Exam is Comprehensive.

**Grading Policy:** Course grades are based on the following percentages. Homework 10% Two Quizzes 10% Two Midterms 50% final Examination 30% Course grades are assigned based on the following percentages: F 0-59, D 60-69, C 70-79, B 80-89, A 90-100. Other grades such as W or X will be assigned in accordance with the guidelines in the catalog.

**Attendance Policy:** Regular attendance is required.

**Drop Policy:** Please see university drop policy and deadlines.

**Americans with Disabilities Act:** The University of Texas at Arlington is on record as being committed to both the spirit and letter of federal equal opportunity legislation; reference Public Law 92-112 - The Rehabilitation Act of 1973 as amended. With the passage of federal legislation entitled *Americans with Disabilities Act (ADA)*, pursuant to section 504 of the Rehabilitation Act, there is renewed focus on providing this population with the same opportunities enjoyed by all citizens.

As a faculty member, I am required by law to provide "reasonable accommodations" to students with disabilities, so as not to discriminate on the basis of that disability. Student responsibility primarily rests with informing faculty of their need for accommodation and in providing authorized documentation through designated administrative channels. Information regarding specific diagnostic criteria and policies for obtaining academic accommodations can be found at [www.uta.edu/disability](http://www.uta.edu/disability). Also, you may visit the Office for Students with Disabilities in room 102 of University Hall or call them at (817) 272-3364.

**Academic Integrity:** It is the philosophy of The University of Texas at Arlington that academic dishonesty is a completely unacceptable mode of conduct and will not be tolerated in any form. All persons involved in academic dishonesty will be disciplined in accordance with University regulations and procedures. Discipline may include suspension or expulsion from the University.

"Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, and the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts." (Regents' Rules and Regulations, Series 50101, Section 2.2)

**Student Support Services Available:** The University of Texas at Arlington supports a variety of student success programs to help you connect with the University and achieve academic success. These programs include learning assistance, developmental education, advising and mentoring, admission and transition, and federally funded programs. Students requiring assistance academically, personally, or socially should contact the Office of Student Success Programs at 817-272-6107 for more information and appropriate referrals.

**Final Review Week:** A period of five class days prior to the first day of final examinations in the long sessions shall be designated as Final Review Week. The purpose of this week is to allow students sufficient time to prepare for final examinations. During this week, there shall be no scheduled activities such as required field trips or performances; and no instructor shall assign any themes, research problems or exercises of similar scope that have a completion date during or following this week unless specified in the class syllabi. During Final Review Week, an instructor shall not give any examinations constituting 10% or more of the final grade, except makeup tests and laboratory examinations. In addition, no instructor shall give any portion of the final examination during Final Review Week.

**Librarian to Contact:** Science and Technology Librarian.

**E-Culture Policy:** The University of Texas at Arlington has adopted the University email address as an official means of communication with students. Through the use of email, UT-Arlington is able to provide students with relevant and timely information, designed to facilitate student success. In particular, important information concerning registration, financial aid, payment of bills, and graduation may be sent to students through email.

All students are assigned an email account and information about activating and using it is available at [www.uta.edu/email](http://www.uta.edu/email). New students (first semester at UTA) are able to activate their email account 24 hours after registering for courses. There is no additional charge to students for using this account, and it remains active as long as a student is enrolled at UT-Arlington. Students are responsible for checking their email regularly.

**Make-up Exam Policy:** Make up exams, quizzes and homework are not allowed.

**Grade Grievance Policy:** Grade grievances will be handled according to the policy described in the College of Engineering portion of the Catalog.