

**CE 2210 - Dynamics
Course Syllabus
Summer 2013**

Instructor: Seyed Mohammad Razavi
Office: 240 Nedderman Hall
Phone: 817-272-0996
Email: seyed.razavi@mavs.uta.edu

Office Hours: MW 10:00 am – 11:00 am
or by appointment
Lecture: MTuW 8:00 am – 9:20 am
NH 202

TA: Mojtaba Salehi Dezfooli
Office: 240 Nedderman Hall
Email: mojtaba.salehidezfooli@mavs.uta.edu

Office Hours: MW 2:00 pm – 3.00 pm
or by appointment

Prerequisites: CE 2311 – Statics and MATH 2425 – Calculus II

Required Textbook: Vector Mechanics for Engineers: Statics and Dynamics, 10th; F. P. Beer, E. R. Johnston, et al.; McGraw Hill; ISBN-13-9780073398136

Course Content: Planar and spatial kinematics and kinetics of individual particles and systems of particles utilizing Newton's Laws of Motion, the Principle of Work and Energy, and the Principle of Impulse and Momentum; steady flow and variable mass systems; frictional forces; single degree of freedom vibration.

Student Learning Outcomes

This course will focus on the following student educational outcomes:

- An ability to apply knowledge of mathematics, science, and engineering T_1
- An ability to design a system, component, or process to meet desired needs T_1
- An ability to identify, formulate and solve engineering problems T_1
- An understanding of professional and ethical responsibility C_1
- The broad education necessary to understand the impact of engineering solutions in a global, economic, environmental and societal context C_1
- A recognition of the need for, and an ability to engage in life-long learning C_1
- A knowledge of contemporary issues C_1
- An ability to use the techniques, skills and modern engineering tools necessary for engineering practice T_1

**Covered Implicitly (C_I): The outcome is implicitly covered*

Covered Explicitly (C_E): The outcome is explicitly covered

Tested Implicitly (T_I): The outcome is covered and implicitly assessed for by one or more means (assignments, test questions, essay questions, presentation evaluations, lab reports, etc.)

Homework: A number of relevant homework problems, grouped into one or more problem sets will be assigned on the class website or given in class at the end of lecture.

Assignments will be collected in class at the beginning of a lecture in hard copy. Late Homework will NOT be accepted unless arrangement has been made in advance with the instructor. Homework are suggested to be in a standard format. This includes: (a) statement of the problem (with a sketch); (b) quantities with given values; (c) quantities to be found; and (d) solution of the problem.

Draw a box around the answer(s). DO NOT WRITE IN THE BACK OF THE PAGE

Make-up Examinations: Makeup examinations are not given. If an examination is missed as a result of an illness or because of a University Authorized Absence, the weight of the missed examination will be added to the weight of the final examination when the class grade is determined. It is the responsibility of the student to provide acceptable, written documentation for absences that occur on the day of an examination. http://wwwb.uta.edu/catalog/content/general/academic_regulations.aspx#5 in the UTA catalog at discusses University Authorized Absence. If arrangements are made well in advance, an examination can usually be taken before the scheduled time and a more lenient excuse policy is applied.

Grading policy:

	<u>Weighting of grades</u>	<u>Final grades</u>
Quiz	10%	
Homework	10%	A 90 - 100 %
Midterm I	25%	B 80 - 89.99 %
Midterm II	25%	C 70 - 79.99 %
Final exam	30%	D 60 - 69.99 %
Total weight	100 %	< 59.99 % F

Attendance: Regular and punctual attendance is required of students enrolled in this class. Absences may indirectly affect one's grade. The student is responsible for determining what was covered during missed classes.

Policies: In general, the class will be conducted in accordance with the policies given below. However, it is impossible to anticipate every possible circumstance. The instructor reserves the right to modify the given policies or to deviate from them in unforeseen or unusual circumstances. If there is a policy that you anticipate will affect you in a way that seems unfair, please bring it to the attention of the instructor before the end of the second week of class. After that, the reason for a student initiated change in policy must be compelling.

Dropping the Course: Students may drop or swap (adding and dropping a class concurrently) classes through self-service in MyMav from the beginning of the registration period through the late registration period. For Engineering students, added classes must be on the list approved by the academic advisor. After the late registration period, students must see their academic advisor to drop a class or withdraw. Undeclared students must see an advisor in the University Advising Center. Drops can continue through a point two-thirds of the way through the term or session. It is the student's responsibility to officially withdraw if they do not plan to attend after registering. **Students will not be automatically dropped for non-attendance.** Repayment of certain types of financial aid administered through the University may be required as the result of dropping classes or withdrawing. Contact the Financial Aid Office for more information.

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. According to the UT System Regents' Rule 50101, §2.2, "Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, 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."

The College of Engineering has a "Statement on Ethics, Professionalism, and Conduct for Engineering Students" which may be downloaded from www.uta.edu/engineering/coees.doc. Each student is responsible for understanding and acting in accordance with this document.

Grade Grievances: The university policy regarding "Student Grievance Procedures Related to Grades" is explained in item 6 at http://web.uta.edu/catalog/content/general/academic_regulations.aspx#10.

Electronic Communication Policy: The University of Texas at Arlington has adopted the University "MavMail" address as the sole official means of communication with students. MavMail is used to remind students of important deadlines, advertise events and activities, and permit the University to conduct official transactions exclusively by electronic means. For example, important information concerning registration, financial aid, payment of bills, and graduation are now sent to students through the MavMail system. All students are assigned a MavMail account. **Students are responsible for checking their MavMail regularly.** Information about activating and using MavMail is available at <http://www.uta.edu/oit/email/>. There is no additional charge to students for using this account, and it remains active even after they graduate from UT Arlington.

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.

Librarian to Contact: Sylvia George-Williams, 817-272-7519, sylvia@uta.edu.

Americans With Disabilities Act: The University of Texas at Arlington is on record as being committed to both the spirit and letter of all federal equal opportunity legislation, including the Americans with Disabilities Act (ADA). All instructors at UT Arlington are required by law to provide "reasonable accommodations" to students with disabilities, so as not to discriminate on the basis of that disability. Any student requiring an accommodation for this course must provide the instructor with official documentation in the form of a letter certified by the staff in the Office for Students with Disabilities, University Hall 102. Only those students who have officially documented a need for an accommodation will have their request honored. Information regarding diagnostic criteria and policies for obtaining disability-based academic accommodations can be found at www.uta.edu/disability or by calling the Office for Students with Disabilities at (817) 272-3364.