CE 2311 - Statics
Course Syllabus
Summer 2009

Instructor: Dr. Ardavan Motahari
Office: 240 Nedderman Hall
Phone: 817-272-0204
Email: motahari@uta.edu
Lecture: M-W-T 1:00 PM – 2:50 PM
202 Nedderman Hall

Office Hours:
Tue 10:00 AM – 12:00 AM
Wed 10:00 AM – 12:00 AM
(or by appointment)

GTA:
Roozbeh (Roy) Kiamanesh
(roozbeh.kiamanesh@mavs.uta.edu)

Course Content
Composition and resolution of forces; equivalent force systems including couples and distributed forces; equilibrium of force systems acting on particles, rigid bodies, and systems of rigid bodies; internal forces in rigid bodies; centroids and moments of inertia.

Prerequisites
PHYS 1443 – General Technical Physics I
MATH 2425 – Calculus (or concurrent enrollment)

Student Learning Outcomes
An ability to identify, formulate, and solve engineering problems.

Required Textbooks:

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.

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.

Homework
The required format for homework assignments will be provided in a separate document.

Major Assignments and Examinations
This class has no major assignments. There will be three midterm examinations and a comprehensive final examination. The dates of all the examinations are given below. The time of the final exam is set in the UTA final examination schedule. There is always a small chance that a midterm examination will be rescheduled. Notice of such a change will be provided as soon as possible.

Use of Calculators During Examinations
The National Council Of Examiners for Engineering and Surveying provides a list of calculators...
that may be used on the FE examination. Only calculators from the 2009 NCEES Approved Calculator List will be permitted in CE 2210 examinations. The permitted calculators are:

**Casio:** All *fx-115* models. Any Casio calculator must contain *fx-115* in its model name.

**Hewlett Packard:** The HP 33s and HP 35s models, but no others.

**Texas Instruments:** All *TI-30X* and *TI-36X* models. Any Texas Instruments calculator must contain either *TI-30X* or *TI-36X* in its model name.

**Examination Schedule**

<table>
<thead>
<tr>
<th>Date</th>
<th>Exam</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wed, June 24th</td>
<td>Exam 1</td>
</tr>
<tr>
<td>Mon, July 13th</td>
<td>Exam 2</td>
</tr>
<tr>
<td>Wed, July 29th</td>
<td>Exam 3</td>
</tr>
<tr>
<td>Wed, August 12th</td>
<td>Final Exam</td>
</tr>
</tbody>
</table>

**Make-up Examinations**

Makeup examinations are not given. If an examination is missed as a result of a documented, university approved reason (http://www.uta.edu/catalog/general/academicreg), the weight of the missed examination will be added to the weight of the final examination when the class grade is determined. The action taken if more than one exam is missed will be decided on an individual basis. 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.

**Class Grade**

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
<th>Total (T)</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>5%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quizzes</td>
<td>5%</td>
<td>90 ≤ T ≤ 100</td>
<td>A</td>
</tr>
<tr>
<td>Class Performance</td>
<td>5%</td>
<td>80 ≤ T &lt; 90</td>
<td>B</td>
</tr>
<tr>
<td>Examination 1</td>
<td>20%</td>
<td>70 ≤ T &lt; 80</td>
<td>C</td>
</tr>
<tr>
<td>Examination 2</td>
<td>20%</td>
<td>60 ≤ T &lt; 70</td>
<td>D</td>
</tr>
<tr>
<td>Examination 3</td>
<td>20%</td>
<td>0 ≤ T &lt; 60</td>
<td>F</td>
</tr>
<tr>
<td>Final Examination</td>
<td>25%</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- The minimum grade of Exams 1, 2 and 3 will be replaced by final grade, in case the final grade is more than the minimum grade.
- Two lowest grades of Quizzes will be removed from averaging to allow for possible missed quizzes due to justified absences.
- Class performance includes showing active contribution to the progress of the class by showing interest in the topic, giving thoughtful comments in the class and in the office hours, answering to the questions brought up in the class by the instructor, not being intimidated by asking basic questions and providing the instructor by useful feedback on different topics.

**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, 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)
Grade Grievances
The university policy regarding “Student Grievance Procedures Related to Grades” is explained at http://www.uta.edu/catalog/2007/general/academicreg.html

Dropping the Course
The university policy regarding “Schedule Changes (Adds and Drops)” is explained at http://www.uta.edu/catalog/2007/general/academicreg.html

E-Culture Policy
The University of Texas at Arlington has adopted MavMail email as the 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. 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.

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
Barbara Howser, Science and Technology Library.
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. It is the student’s responsibility to inform the faculty of their need for accommodation and to provide authorized documentation through a designated administrative channel. 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.