

Syllabus
MAE 1312 - Engineering Statics
(Required course by ME & AE programs)

1. **Instructor:** Zhen X. Han
2. **Email Address:** han@uta.edu
3. **Office Phone No.:** 817-272-7376
4. **Office Location:** 204B, Woolf Hall
5. **Office Hours:** W/F 10:00am - 11:30am
6. **Meeting Days&Times:** T/Th 9:30am - 10:50am, Aug 24, 2009- Dec 4, 2009
7. **Meeting Location:** 221 Woolf Hall
8. **Course Website:** webct.uta.edu
9. **Course Prerequisites:** PHYS 1443 (Technical Physics I - mechanics) and MATH 1426 (Calculus I)
10. **Required Readings/Materials:** Text book: Engineering Mechanics - Statics, 12th Edition, R.C. Hibbeler. Pearson Prentice Hall,
11. **Course Contents:** Fundamental Principles of Mechanics; Forces and Force Components; Statics of Particles; Moments, Couples and Equivalent Force-Couple Systems; Distributed Forces; Equilibrium of Rigid Bodies; Internal Forces of Trusses and Frames; Friction; Centroid and Center of Gravity; Moments of Inertia.
12. **Course Learning Goals/Objectives:**
 - To develop skills and techniques essential in analyzing and solving quantitative engineering problems.
 - To study both the fundamental principles of mechanics and their applications to the equilibrium of rigid bodies/structures under action of forces.
 - To acquire a prerequisite fund of knowledge to studying the mechanics of materials and of structural analysis and design.

13. **Attendance:** Attendance required

14. **Drop Policy:** Refer to UTA course drop policy.

15. **Specific Course Requirements**

(a) **Quizzes:**

- At least 6 in-class pop-quizzes
- A maximum of 3 % bonus grade points will be rewarded

(b) **Homework:**

- Assigned during lectures and due at the beginning of the following Tuesday's class
- Each homework problem will be graded out of 10 points
- No late homework is accepted

(c) **Exams:**

- 2 midterms and 1 final (3 exams total)
- Closed books/Closed notes
- No make-up work

(d) **Grading Format:**

- Homework: 10%
- Exams: 30% each (90% total)

16. **Other Information:**

• **Final Review Week**

A period of five class days prior to the first day of final examinations will be designated as FINAL REVIEW WEEK. The purpose of this week is to allow UT Arlington students sufficient time to prepare for final exams. During this week, there will be no schedule or required activities such as field trips, seminars, 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 syllabus. During Final Review Week, an instructor will not give any exams constituting 10 % or more of the final grade, except make-up tests and laboratory examinations. In addition, no instructor will give any portion of the final exam during Final Review Week.

- **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 93112 – The Rehabilitation Act of 1973 as amended. With the passage of new 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 accommodation" to students with disabilities, so as not to discriminate on the basis of that disability. Student responsibility primarily rests with informing faculty at the beginning of the semester and in providing authorized documentation through designated administrative channels.

- **Academic Dishonesty**

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, Part One, Chapter VI, Section 3, Subsection 3.2, Subdivision 3.22)

- **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.

For assistance with your library needs in this course, please consult the appropriate subject librarian.