

# Engineering Statics

MAE 1312 Section 002

TTH 9:30AM ~ 10:50AM

221WH

(Required course by ME&AE programs)

1. Instructor: Zhen Xue Han
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3. Office Hours: WF: 10:00AM-12:00noon
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8. Instructor WWW Site:
9. Link to Additional Course Info:
10. Course Prerequisites:  
Phys I, Calc I
11. Required Readings/Materials:  
Text: Engineering Mechanics - Statics, Tenth Edition, R.C. Hibbeler. Pearson Prentice Hall. ISBN 0-13-141167-5
12. Course Description:  
A study of forces and force systems, resultants and components of force systems, forces due to friction, conditions of equilibrium, forces acting on members of structures, centroids and moments of inertia.
13. Course Learning Goals/Objectives:  
To study both the fundamental principles of mechanics and their applications to the equilibrium of rigid bodies under action of forces.
14. Attendance and Drop Policy:  
Attendance required  
The last drop date: **Friday, March 30<sup>th</sup>, 2007.**
15. Tentative Lecture/Topic Schedule (course content):  
Units, Significant Digits, Forces, Force Components, Statics of Particles, Moments, Couples, Equilibrium of Rigid Bodies, Distributed Forces, Equilibrium of Rigid Bodies, Internal Forces of Structural Members, Friction, Centroid, Center of Gravity, Moments of Inertia.

Specific Course Requirements with descriptions

**1. Quizzes (number and type):**

At least 5 in-class pop-quizzes.

**2. Examinations (number and type):**

3 tests (2 midterms and 1 final) /Closed Book

**3. Final Examination: Non-comprehensive****4. Other Graded Assignments (Homework / Projects / Labs / Research Papers):**

HomeWork - Usually about 10 problems per week. Assigned in each class and due at the beginning of Tuesday's class. Must be neat; staple pages. No late homework. Each homework problem will be graded out of 10 points.

**5. Missed Exams, Quizzes and Makeup Work:**

No makeupwork

**6. Grading Format Weighting / Point Value of Assignments and Examinations:**

Grading:

Homework: 10%

2 Midterm tests: 30% each (60% total)

Final Exam: 30%

**7. Other Information:**

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**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.

**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.

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For assistance with your library needs in this course, please consult the appropriate [subject librarian](#).