

## MAE 4344 – Fall 2009

mae.uta.edu/~lawrence

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**Office Hours:** 2:00 – 3:30 TTh or by appointment or any other time I'm and available.

**Course Number, Section Number, and Course Title:** MAE 4344 Computer Aided Engineering

**Time and Place of Class Meetings:** 9:30 – 10:50, TTh, 406 WH

**Description of Course Content:** This course consists of a study of the principles of computer-aided engineering in mechanical and aerospace engineering. Parametric, feature-based solid modeling, kinematics/dynamics of assemblies and finite element modeling for design are considered.

**Student Learning Outcomes:** Course goals include development of an understanding of the basics of computer aided engineering and its use in mechanical & aerospace engineering practice.

**Requirements:** Prerequisites: MAE 3319 and 3242

**Required Textbooks and Other Course Materials:** Kent L. Lawrence, *ANSYS Workbench Tutorial, Release 11.0*, SDC Publications, 2007, ISBN: 978-1-58503-397-3

Kuang-Hua Chang, *Mechanism Design with Pro/Engineer, Wildfire 3.0*, Schroff Development Corporation, 2008, ISBN: 978-1-58503-431-4

**Optional Book:** Any good book on Pro/ENGINEER Wildfire 4.0 (See book available in the bookstore under MAE 1350)

**Descriptions of major assignments and examinations with due dates:** HomeWork throughout the semester; Quiz 1, Week 4; Exam 1, Week 7; Exam 2, Week 12; Final Exam. The **Life Long Learning** assignment, submission of your **Class Notes**, and the **Term Project** are all **Key Assignments**. In order to pass this class, students must submit and pass all key assignments. If any key assignment is not submitted and passed, the student will not pass the class even if he/she scores perfectly on all exams and other assignments.

**Grading Policy:** Homework - 25%, Exams - 25%, Project - 25%, Final Exam - 25%. Tutorials and Worksheets each count as one HW grade; Quizzes as five HWs, Life Long Learning as five HWs.

**Attendance Policy:** Students are expected to attend class.

**Drop Policy:** See university drop policy.

**Americans With Disabilities Act:** 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. Posting Course Syllabuses Online – page 5

**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)

**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.

**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.

**Make-up Exam Policy:** See instructor to schedule at conclusion of course.