
UTA Course Syllabus

MAE 2315 Section 001

Spring 2013

(Required course by AE program)

1. Instructor: Prof. Brian Dennis
2. Email Address: dennisb@uta.edu
3. Office Phone No.: 817-272-7379
4. Office Location: 316C Woolf Hall
5. Office Hours: T/Th 11:00am - 11:45am
6. Course Website: BlackBoard (<https://elearn.uta.edu/>)
 - homework/exam grades will be posted on the course website
 - Check your grades every week and report errors within a week
7. Course Prerequisites: MAE 2323 (Dynamics), MAE3309/MAE3310 (Thermal Engineering/Thermodynamics) or co-requisite and MAE3360 (Engineering Analysis) or co-requisite
8. Required Readings/Materials: Text book: Fluid Mechanics, 7th Edition, Frank White, ISBN: 978-0-07-352934-9
9. Course Contents: Introduction to fluid dynamics and low speed aerodynamics; fluid properties; dimensional analysis; conservation equations in integral and differential form; viscous flow; potential flow theory, airfoil and finite wing theory.
10. Course Learning Goals/Objectives:
 - To study fundamental concepts of fluid statics, kinematics, and dynamics.
 - To develop skills and techniques essential in analyzing and solving engineering problems involving fluid flow.
11. Attendance: Attendance required
12. Drop Policy: Refer to UTA course drop policy.
13. Special Course Requirements
 - (a) Homework:
 - Assigned during lectures
 - Due at the beginning of Tuesday's class
 - Must be handed in before the class starts
 - No late homework is accepted
 - (b) Key Assignments: To assess students' ability to identify, formulate and solve engineering problems and ability to apply knowledge of mathematics, science and engineering, two supplemental homework assignments will be designated as the key assignments this semester. In order to pass this class, students must submit and pass the 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.
 - (c) Exams:
 - 2 midterms and 1 final (3 exams total)

- Closed books/Closed notes
- Equation Sheet will be provided
- No graphing/programmable calculators
- Comprehensive final exam

(d) Missed Exams, Quizzes and Makeup Work:

No makeup exams unless arrangements are made in advance and only for approved absences. No extra credit assignments will be given.

(e) Grading Policy:

- Homework: 10%
- Exams: 30% each; 90% in total

14. Other Information:

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.

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