

**MAE 5331-052 ANALYTICAL METHODS IN ENGINEERING**

**Fall 2003**

**Mondays and Wednesdays 10:30 – 11:50 a.m.**

**Woolf Hall ; Room 308**

**Instructor:**

Albert Y. Tong; Ph.D., P.E.

**Office:**

Room 306C Woolf Hall

**Office Hours:**

9:30 – 10:30 a.m. and 3 – 4 pm MW or by appointment.

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**Course WWW site:**

mae.uta.edu/~tong/5331

**Course Prerequisites:**

Undergraduate degree in engineering, physics or mathematics.

**Textbook: (optional)**

“Advanced Engineering Mathematics” by Michael D. Greenberg, Prentice Hall 2<sup>nd</sup> ed., 1998.

**Course Description:**

Introduction to advanced analytical methods in engineering. Methods include multivariable calculus and field theory, Fourier series, Fourier and Laplace Transforms.

**Course Learning Goals/Objectives:**

To learn the basic analytical methods for engineering.

**Attendance and Drop Policy:**

Attendance will be taken at the beginning of each class. Students who come in late and miss signing the attendance sheet will be considered as absence. It will be used for grade consideration in the borderline situation. The university policy on drop will be followed.

**Grading Policy:**

Mid-Term Exams (2)    60 %  
Final Exam                40%

The total will be curved based on the following formula:

*"Curved Total = (Total / Highest Total in class) X 100".*

*(Example: your total is 60 and the highest total in class is 88, your curved total will be 68.2)*

The overall curved total of 85% and above is A; 70-85% is B; 55-70% is C; 40-55 is D and below 40 is F. Examination format will be announced in advance. No make-up exams will be given except for documented excuses of inability acceptable to the instructor.

## **From the College of Engineering**

**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, here 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 suspensions 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)

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