

ME5331 Syllabus

Fall, 2009

Instructor's Name: **Seiichi Nomura**

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Office Hours: **2PM-4PM TTh or by appointment**

Course Number, Section Number and Course Title: **ME5331-001, Analytical Methods in Engineering.**

Time and Place of Class Meetings: **02:30PM-03:50PM MW, Room 104 Geoscience Building (lecture)**

Textbook: ***Advanced Engineering Mathematics*, M. D. Greenberg, Prentice-Hall**

Description of Course Content:

- **Scalar and Vector Field Theory**
 - Chapter 13 Differential Calculus of Functions of Several Variables
 - Chapter 14 Vectors in 3-Space
 - Chapter 15 Curves, Surfaces and Volumes
 - Chapter 16 Scalar and Vector Field Theory
- **Fourier Series; Fourier Transforms and Laplace Transforms**
 - Chapter 17 Fourier Series
 - Chapter 5 Laplace Transform

Homework problems and their (brief) solutions will be posted on the Web.

Grading policy

- Mid-term 45%
- Final 45%
- HW 10% (contingent upon GTA assignment)
- Attendance 5% (spot check)

GTA:

- TBA

Americans with Disabilities Act: The University of Texas at Arlington is on record as being committed to both the spirit and letter of federal 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. Also, you may visit the Office for Students with Disabilities in room 102 of University Hall or call them at (817) 272-3364.

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 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)

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