

EE 3317 Linear Systems
Summer 2009, TR/ 6:00 - 7:50 PM
Room 108 NH

<https://www-ee.uta.edu/Online/Oraintara/ee3317>

INSTRUCTOR: Soontorn Oraintara, Associate Professor, EE Department.

Office: 539 Nedderman Hall, Phone: 272-3482, Email: oraintar@uta.edu

Office Hours: TR 2:30 - 3:30 PM (Other times by appointment)

TEXTBOOK: B.P. Lathi, Linear Systems and Signals, 2ed, 2005, Oxford University Press.

GRADUATE TEACHING ASSISTANT: Davis Kirachaiwanich

Office: 205 Nedderman Hall,

Email: davis.kirachaiwanich@mavs.uta.edu,

Office Hours: MW 1:00 - 4:00 PM (Other times by appointment)

PREREQUISITE: EE 2446, Math 3319

COURSE DESCRIPTION: Time domain transient analysis, convolution, Fourier series and transform, Laplace transforms and applications, transfer function, signal flow diagram, Bode plot, stability criteria and sampling.

ATTENDANCE POLICY: Students are expected to attend classes regularly.

DROP POLICY: As per University guidelines. See the Registrars Bulletin or the University Calendar in the front part of the UTA catalog for drop dates.

HOMEWORKS, MATLAB ASSIGNMENTS AND QUIZZES: Assignments will be given (almost) every week, and they are due at the beginning of the next class, unless otherwise specified. Pop quizzes will be handed out in class.

You are encouraged to discuss assignments with others. Even though discussion is encouraged, *the work that you turn in must be your own.*

No late assignments will be accepted except under extreme non-academic circumstances.

EXAMS: There are three tests scheduled on 6/30/09, 7/23/09, and 8/6/09.

GRADING POLICY:

30% Test I

30% Test II

30% Test III

10% Assignments and Quizzes

If you require an accommodation based on disability, I would like to meet with you in the privacy of my office, during the first week of the semester, to make sure you are properly accommodated.

STUDENT EVALUATION OF TEACHING: Students will be asked to complete instructor/course evaluation forms at the end of the semester.

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).

ANY CHEATING WILL RESULT IN SEVERE PENALTIES.

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<u>Date</u>	<u>Topic Covered</u>
6/4/09	Introduction
6/9/09	Signals and Systems
6/11/09	Signals and Systems
6/16/09	Signals and Systems
6/18/09	Time-domain Analysis of Continuous-time Systems
6/23/09	Time-domain Analysis of Continuous-time Systems
6/25/09	Time-domain Analysis of Continuous-time Systems
6/30/09	Test I
7/2/09	Time-domain Analysis of Continuous-time Systems
7/7/09	Continuous-time System Analysis Using the Laplace Transform
7/9/09	Continuous-time System Analysis Using the Laplace Transform
7/14/09	Continuous-time System Analysis Using the Laplace Transform
7/16/09	Continuous-time System Analysis Using the Laplace Transform
7/21/09	Continuous-time Signal Analysis: The Fourier Series
7/23/09	Test II
7/28/09	Continuous-time Signal Analysis: The Fourier Series
7/30/09	Continuous-time Signal Analysis: The Fourier Transform
8/4/09	Sampling
8/6/09	Test III