**The University of Texas at Arlington**

[**Department of Electrical Engineering**](http://www-ee.uta.edu/)

**EE 3318 Discrete Signals and Systems**

**Course Information and Outline, Fall 2007**

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**Instructor:**        K.R. Rao

**Class Room:**      GACB 103  MW 4:00-5:20PM

**Office:** Room 530 NH

**Office Hours:** Monday, 11 a.m. – 12 noon

    Wednesday 2 p.m. – 3 p.m.

**Phone:** 817-272-3478

**Mailbox:** Electrical Engineering, Box 19016, UTA, Arlington TX 76019

**Email:**              rao@uta.edu

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**Course WWW site: http://www-ee.uta.edu/Dip/Courses/EE3318/index.htm**

**Required Textbook(s):** J. H. McClellan, R. W. Schafer and M. A. Yoder, DSP FIRST: A Multimedia Approach, Upper Saddle River, NJ: Prentice Hall, 1998

**Prerequisite:** EE 3317 Linear Systems

**Course Description:** The covered topics are Fourier series and transform, sampling theorem, FIR digital filters, discrete-time convolution,

z-transform, and IIR digital filters and their stabilities.

**Course Learning Goals/Objectives:** To obtain familiarity and gain knowledge about various transforms and filters and to understand their significance in the field of digital signal and multimedia processing.

**Attendance Policy:** Students are required 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.

**Homework:** Individual assignments will be given every week. Please do not turn in.

**Computer Assignments:** MATLAB assignments will be handed out. 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.*

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**Exams:** There are two midterm exams and a final exam.

**Specific Course Requirements w/ Descriptions:**

Test#1:             Wednesday, 26 September 2007,          4:00–5:20 PM

Test#2:             Wednesday, 31 October 2007,              4:00–5:20 PM

Final:                 Wednesday, 12 December 2007,           2:00-4:30 PM

**Grading:                     PLAN A**

Test 1                                       30%                                         A=90-100%

Test 2                                       30%                                         B=80-89%

Final                                          30%                                         C=70-79%

MATLAB projects                          10%                                         D=60-69%

**PLAN B:**

**(for those who miss a test – not recommended)**

Max of Test 1 and Test 2                         45%,

Final                                                     45%

MATLAB projects                                     10%

Course grades are based on max. of Plan A and Plan B, i.e., whichever is higher.

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**Everyone must take the final, at the same time and same place. No exceptions.**

1. No makeup. 2. No incomplete. Final exam papers will not be returned. The student, however, has the right to look at his/her exam paper and discuss it with the instructor. Final exam papers will be kept until the midsemester of the following semester. Summer counts as on semester. (No telephone calls or inquiries regarding course grades, please.) Everyone must take the tests and final exam at the same time and at the same place. If you have any questions on your returned tests, please do so within a week. Please bring your work, key and the test. **Videotape students** contact: Engineering center for distance education (Room 242, Nedderman Hall): Donya Ph: 1-817-272-2352 Fax: 1-817-272-5630, email: drandolph@uta.edu

**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.**