

Department of Electrical and Computer Engineering
Louisiana State University
EE 3120 *Linear Systems Analysis*
Spring 2004

Schedule: 12:40-1:30, MWF

Location: 1109 CEBA

Catalog Description: EE 3120 Linear Systems Analysis (3) Prereq: EE 2120, MATH 2090.
Methods of analysis for time-invariant linear systems.

Course Objective: This course will provide the students with mathematical tools for the analysis of models described by linear ordinary differential equations and linear difference equations.

Text: C-T. Chen, System and Signal Analysis, 2nd Ed., Saunders College Publishing, Holt, Rinehart and Winston, Inc., 1994.

Instructor: John Scalzo, MSEE Georgia Tech, BSEE Virginia Tech
Electrical Engineering Building 102 F

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Experience: Microelectronics Components Design Engineer, RF Engineer

Specialization: DSP, Analog and Digital Communications, and Automata Theory.

Courses include Coding Theory, Satellite communications, Cellular communications, Digital Speech processing, Digital Image Processing, Frequency Synthesizers, RF Engineering

Office Hours: M 9:00-10:00 am/T 9:00-10:00,12:30-1:30 pm/Th 1:30-2:30 pm/F 8:30-9:30 am

Topics:

1. Chapter 1: Basic Signal Concepts
2. Chapter 2: Basic System Concepts
3. Chapter 3: Linear System Representations; Convolution, Differential/difference equations.
4. Chapter 4: Continuous-Time Linear System Analysis using the Laplace Transform
5. Chapter 5: Discrete-Time System Analysis using the Z-Transform
6. Chapter 6: Continuous-Time Signal Analysis and the Fourier Transform

Grading:	Homework	10%	
	Quizzes	5%	
	MATLAB Projects	10%	
	Test 1	20%	
	Test 2	20%	
	Final Exam	35%	Friday May 14, 7:30 – 9:30 am

The final exam is cumulative and will replace the lowest test grade, if it helps.

Grading Assistants: name:
email:
office hours:

Missed exams and assignments: Make-up tests will be given only for excused absences (illness, family emergency). Students must notify me immediately upon knowing that a test will be missed. Test 1 must be made up before test 2. Test 2 must be made up before the final exam. Exams that are not taken will not be replaced by the final exam grade. Late homework will be accepted, but will be penalized 1 letter grade per day late. Assignments are due at the beginning of class.

Academic Dishonesty: Academic dishonesty of any kind will not be tolerated. Anyone suspected of cheating will be reported to the Dean of Students.

Attendance and Tardiness: There will be no attendance or tardiness policies for this class.