

ECEN 3723 Systems I Spring 2001 Syllabus



	Synabus	
<u>Time</u> :	Tuesday/Thursday 2:00-3:15 PM	
Place:	Classroom Building 207	
Prerequisite:	ENGSC 2613- Introduction to Electrical Science MATH 2613- Differential Equations	
<u>Text</u> :	System Dynamics Katsuhiko Ogata, Prentice-Hall, 1998	
<u>References</u> :	Discrete-time and Continuous-time Linear Systems Robert J. Mayhan, Addison-Wesley, 1984 Signals and Systems- an Introduction Leslie Balmer, Prentice-Hall, 1991 Signals, Systems and Transforms Charles L. Phillips and John M. Parr, Prentice-Hall, 1992	5
Instructor:	Professor Gary G. Yen, Engineering South 202D http://www.okstate.edu/elec-engr/faculty/yen 405-744-7743, 405-744-9198 (fax), gyen@ceat.okstate.edu Office Hours: Tuesday/Thursday 10:30AM-2:00PM; 3:30PM-5:00 PM; or by appointment only	
<u>Objectives</u> :	 To introduce some basic tools needed for signal and systemalysis and design applicable to dynamic controls throug mathematical derivations and computer simulations. The topics include signals and systems representation <i>Laplace</i> transform solving differential equations <i>z</i> transform solving difference equations modeling of electrical systems modeling of mechanical systems time-domain analysis frequency-domain analysis state space model and its solution 	
<u>Grading</u> :	10 Weekly Homework Assignments 1/25, 2/1, 2/8, 2/15, 3/8, 3/15, 3/29, 4/5, 4/24, 5/1 Computer Simulation Project Midterm Exam 1 (March 1, 2:00-3:15 PM) Midterm Exam 2 (April 17, 2:00-3:15 PM) Final Exam (May 8, 8:30-10:20 AM) A-85% above; B-76%-85%; C-66%-75%; D-56%-65%;	20% 10% 20% 20% 30% F-55% below
Note:	All exams are open notes, but close book.	