	ECEN 5713 Linear System Spring 2000	
<u>Time</u> :	Tuesday/Thursday 9:00-10:15 AM	
Place:	Cordell 128	
<u>Text</u> :	<i>Linear Systems</i> , Panos Antsaklis and Anthony Michel McGraw-Hill, 1997 (antsaklis.1@nd.edu)	
<u>References</u> :	Modern Control Theory, 3rd edition, William L. Brogan Prentice-Hall, 1991 (eewlb@ee.unlv.edu) Linear System Theory and Design, Chi-Tsong Chen Oxford, 1984 (ctchen@sbee.sunysb.edu) Linear Systems, Thomas Kailath Prentice-Hall, 1980 Linear Systems, Ray DeCarlo Prentice-Hall, 1989	
<u>Instructor</u> :	Professor Gary G. Yen, http://www.okstate.edu/elec-engr/faculty/yen 405-744-7743, gyen@master.ceat.okstate.edu Engineering South 202D Office Hours: Tuesday/Thursday 10:30 AM-12:00 P or by appointment only	'nΜ
<u>Objectives</u> :	 To study the fundamental theory of finite-dimensional linear system with emphasis on the state-space representation and its solution. The topics include mathematical basis-matrix theory, linear algebra, vector space system representation-input-out operator, geometric approach, <i>state space representation</i>, transfer function algoe conversion of alternative representations linear dynamical solution controllablity, observability, stability and control linearization and minimal realization state feedback and state estimation 	orithm
<u>Grading</u> :	10 Weekly Homework Assignments20%1/20, 1/27, 2/3, 2/10, 2/17,3/9, 3/23, 4/13, 4/20, 4/273/9, 3/23, 4/13, 4/20, 4/2725%Midterm Exam 1 (March 2)25%Midterm Exam 2 (April 6)25%Final Exam (May 2, 8:30-10:20 AM)30%A-85% above; B-76%-85%; C-66%-75%; D-65% be	
<u>Note</u> :	All exams are open notes, but close book.	