	ECEN 5713 Linear System Fall 1998	NO NO
<u>Time</u> :	Monday/Wednesday 1:30-2:45 PM	
<u>Place</u> :	Cordell 128	
<u>Text</u> :	Linear System Theory and Design, Chi-Tsong Chen Oxford, 1984 (ctchen@sbee.sunysb.edu)	
<u>References</u> :	Modern Control Theory, 3rd edition, William L. Brogan Prentice-Hall, 1991 (eewlb@ee.unlv.edu) Linear Systems, Thomas Kailath Prentice-Hall, 1980 Linear Systems, Ray DeCarlo Prentice-Hall, 1989 Linear Systems, Panos Antsaklis and Anthony Michel McGraw-Hill, 1997 (antsaklis.1@nd.edu)	
<u>Instructor</u> :	Professor Gary G. Yen, http://www.okstate.edu/elec-engr/faculty/yen 744-7743, gyen@master.ceat.okstate.edu Engineering South 202D Office Hours: Tuesday/Thursday 2:00-5:00 PM or by appointment only	
<u>Objectives</u> :	<ul> <li>To study the fundamental theory of finite-dimensional linear system with emphasis on the state-space representation and its solution. The topics include</li> <li>mathematical basis-matrix theory, linear algebra, vector space</li> <li>system representation-input-out operator, geometric approach, <i>state space representation</i>, transfer function algorithm</li> <li>conversion of alternative representations</li> <li>linear dynamical solution</li> <li>controllablity, observability, stability and control</li> <li>linearization and minimal realization</li> <li>state feedback and state estimation</li> </ul>	
<u>Grading</u> :	10 Weekly Homework Assignments 8/26, 9/2, 9/9, 9/16, 10/5, 10/14, 10/21, 10/28, 11/16, 11/23, 11/30 Midterm Exam 1 (September 23) Midterm Exam 2 (November 4) Final Exam (December 11, 5:00-6:50 PM)	20% 25% 25% 30%
<u>Note</u> :	All exams are open notes, but close book.	