	ECEN 5713 System Theory Fall 1997		
<u>Time</u> :	Monday/Wednesday 1:30-3:00 PM	Monday/Wednesday 1:30-3:00 PM	
<u>Place</u> :	Engineering South 111		
<u>Text</u> :	-	Modern Control Theory, 3rd edition, William L. Brogan Prentice-Hall, 1991 (eewlb@ee.unlv.edu)	
<u>References</u> :	<i>Linear Systems</i> , Thomas Kailath Prentice-Hall, 1980 <i>Linear System Theory and Design</i> , Chi-Tsong Chen Sanders, 1984 <i>Linear Systems</i> , Ray DeCarlo Prentice-Hall, 1989 <i>Linear Systems</i> , Panos Antsaklis and Anthony Michel McGraw-Hill, 1997		
<u>Instructor</u> :	Professor Gary G. Yen, http://www.okstate.edu/elec-engr/faculty/yen/yen.html 744-7743, gyen@master.ceat.okstate.edu Engineering South 202 Office Hours: Monday/Wednesday 3:00-5:00 PM or by appointment only		
<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 algorithm conversion of alternative representations linear dynamical solution controllablity, observability, stability and control linearization and minimal realization state feedback and state estimation 		
<u>Grading</u> :	10 Weekly Homework Assignments 9/3, 9/10, 9/17, 9/24, 10/8, 10/15, 10/27, 11/3, 11/19, 11/26 Midterm Exam 1 (October 1) Midterm Exam 2 (November 12) Final Exam (December 19)	20% 20% 20% 40%	
<u>Note</u> :	All exams are open book and class notes. You may use any references that may desire during exams.		