

ECEN 4413 Automatic Control Systems Spring 2004 Syllabus



Syllabus		
<u>Time</u> :	Tuesday/Thursday 3:30-4:45 PM	
Place:	Engineering South 214A	
<u>Prerequisite</u> :	ECEN3413-Controls I or ECEN3713-Network Analysis	
<u>Text</u> :	Automatic Control Systems, John Wiley, 2003 8th Edition, Benjamin C. Kuo and Farid Golnaraghi	
<u>References</u> :	Linear Control Systems, McGraw-Hill, 1993 Charles E. Rohrs, James L. Melsa and Donald G. Schultz Modern Control Systems, Addison Wesley, 1995 7th Edition, Rchard C. Dorf and Robert H. Bishop Modern Control Engineering, Prentice-Hall, 1997 3rd Edition, Katsuhiko Ogata	
Instructor:	Professor Gary G. Yen, Engineering South 404 http://www.okstate.edu/elec-engr/faculty/yen 405-744-7743, 405-744-9198 (fax), gyen@okstate.edu Office Hours: Tuesday/Thursday 9:00AM-12:00PM; or by appointment only	
<u>TA</u> :	TBD (weekly homework help session)	
<u>Objectives</u> :	 To study the fundamental theory of linear control systems through mathematical analysis and numerical simulation. The topics include review of mathematical tools model representations feedback control system time response frequency response stability root locus method control system design digital control system 	
<u>Grading</u> :	10 Weekly Homework Assignments20%Tentative schedule-1/22, 1/29, 2/5, 2/12, (before the first midtem)3/2, 3/9, 3/23, 3/30, (before the second midterm)4/15, 4/22Computer Simulation Project10%Midterm Exam 1 (February 24, 3:30-5:00 PM)20%Midterm Exam 2 (April 8, 3:30-5:00 PM)20%	

	Final Exam (May 4, 2:00-3:50 PM)	30%
	A- 88% above; B- 76%-88%; C- 66%-75%; D- 56%	-65%; F -55% below
<u>Note</u> :	All exams are open notes, but close book.	
Drop and Add:	The instructor will follow University, College and Departmental guidelines for drops and adds. Consult the class schedule book or Ms. Helen Daggs in Engineering South 202 for more information.	
<u>Attendance</u> :	Attendance record will be sampled randomly counted toward your grade. Students will be e attend class. Habitual failure to do so will res grade. Class attendance is taken occasionally	expected to ult in a reduced
	An incomplete grade will only be given when misses a portion of the semester because of il accident. All (I) grades must be completed wi	ness or
<u>Academic Dishonesty</u> :	Cheating on homework, quizzes or examinati and other forms of academic dishonesty are so and will subject the student to serious penaltic	erious offenses
	On the first instance of academic dishonesty, receive a grade of zero for the assignment, qu examination, and a letter will be placed in the academic file. The second instance will result "F" for the course.	iz or student's
<u>Disability Impairment</u> :	If any member of the class feels that he/she has and needs special accommodations of any nat the instructor will work with you and the Unit Disabled Student Services to provide reasonal accommodations to ensure that you have a fai perform in this class. Please advise the instruc- disability and the desired accommodations at before, during, or immediately after the first speriod.	ure whatsoever, versity Office of ble r opportunity to ctor of such some point
<u>Class Website</u> :	You are advised to check class website at <u>http://www.okstate.edu/elec-engr/faculty/yen</u> regularly for important information, such as h homework assignments, schedule changes, ol etc.	andouts,