ECEN 4413 Controls II  
Fall 1997

Time: Monday/Wednesday/Friday 11:30AM-12:20 PM

Place: Engineering South 201B

Prerequisite: ECEN3413-Controls I or ECEN3713-Network Analysis

Charles E. Rohrs, James L. Melsa and Donald G. Schultz

References:  
*Automatic Control Systems*, Prentice-Hall, 1995  
7th Edition, Benjamin C. Kuo

*Modern Control Systems*, Addison Wesley, 1995  

*Modern Control Engineering*, Prentice-Hall, 1997  
3rd Edition, Katsuhiko Ogata

Instructor: Professor Gary G. Yen,  
http://www.okstate.edu/elec-engr/faculty/yen/yen.html  
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Engineering South 202  
Office Hours: Monday/Wednesday 3:00-5:00 PM  
or by appointment only

Objectives: 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

Grading:  
8 Weekly Homework Assignments 20%  
9/3, 9/10, 9/17, 10/8  
10/15, 10/27, 11/19, 11/26  
Design Project (November 5) 30%  
Midterm Exam 1 (October 1) 20%  
Midterm Exam 2 (November 12) 20%  
Final Exam (December 16) 30%

Note: All exams are open book and class notes.  
You may use any references that may desire during exams.