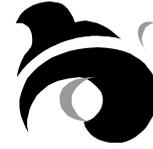




## ECEN 4413 Controls II Fall 1997



- Time:** Monday/Wednesday/Friday 11:30AM-12:20 PM
- Place:** Engineering South 201B
- Prerequisite** ECEN3413-Controls I or ECEN3713-Network Analysis
- Text:** *Linear Control Systems*, McGraw-Hill, 1993  
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  
7th Edition, Richard C. Dorf and Robert H. Bishop  
*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>  
744-7743, [gyen@master.ceat.okstate.edu](mailto:gyen@master.ceat.okstate.edu)  
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.