Prerequisite: ECE 3500

Lecturer: Professor Angela Rasmussen
Office: MEB 3254
Phone: 971-1096
Email: ece3510@comcast.net

Office Hours: Wednesday, Friday 9:30-10:30am, or by appointment

Textbook: Class Notes by Bodson/Rasmussen (available at University Copy Center)

Course Objective:
- Principles of feedback systems
  - Laplace and z transforms
  - Continuous-time systems
  - Discrete-time systems
- Methods for solving engineering problems in such areas as control systems, signal processing, communications, and circuits

Attendance: It is essential that you attend the lecture and take complete and accurate notes. You are responsible for all topics, discussions, handouts and announcements made in class. It is mandatory that you attend the labs.

Homework: In general, assignments will be due on Wednesday by 5pm. Assignments will be announced in class. No late assignments will be accepted. However, your lowest homework grade will be dropped. If you plan on being absent on a day that a homework set is due, you may either turn it in earlier or have a friend turn it in for you. Homework will not be accepted late.

Although collaboration with fellow students on homework assignments and studying is encouraged, you will benefit most from the homework if you attempt to do the problems before consulting with your friends. While it is perfectly reasonable to discuss your approach to solving the problems with a friend, the final write-up of the solution must be your own work. Copying or allowing another student to copy your work is considered cheating.

Homework will be your main study guide. Therefore, think of it as preparation for each exam. Please write clearly, show all of your work in an organized manner, put problems in the proper order and staple each homework set. Make sure you understand all of the homework.

Weekly Quiz: Each Friday at the beginning of class, there will be a quiz. The quiz will cover material from the previous week and the homework turned in the prior Wednesday. No make-up quizzes will be given. However, your lowest quiz score will be dropped.
**Midterms:** Two exams will be given. Exam 1 will be on Feb. 20, 2004 and Exam 2 on Mar. 31, 2004. These dates are subject to change. The exams will be closed book, closed notes. Students may bring one double-sided 8.5x11 sheet of handwritten notes. In NO CASE will make-up exams be given unless the student obtained approval from the instructor PRIOR to the time of the exam. In emergency situations, students will be expected to produce a doctor’s certificate indicating the nature and time of the medical emergency.

**Final Exam:** A comprehensive final exam will be given on the date noted in the schedule. The final will be closed book, closed notes. Students may bring two double-sided 8.5x11 sheets of handwritten notes. The final exam is scheduled for May 3, 2004, 10:30am-12:30pm.

**Labs:** Attendance for lab is mandatory. Labs are not optional. A few of the labs require only a demonstration to the TA. These labs may be worked outside of the scheduled time.

**Grading:** Your final grade will be determined based on 9 homeworks, almost weekly quizzes, 2 midterms, and a final exam. Your lowest weekly quiz grade and your lowest homework grade will be dropped. Your grade will be determined in two different ways:

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<tbody>
<tr>
<td>Homework – 9% (lowest score dropped)</td>
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<td>Quizes – 6% (lowest score dropped)</td>
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<td>Labs – 15%</td>
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<td>2 Midterms – 30%</td>
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<td>Final – 40%</td>
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The best grade from the above two will be used as your final grade.

**Grades:** Your grade will be determined as follows:

| A+ | 97 – 100 | B | 83 – 86 | C | 73 - 76 | D | 63 – 66 |
| A- | 94 – 96 | B- | 80 - 82 | C- | 70 - 72 | D- | 60-62 |
| A | 90 – 93 | B | 77 – 79 | C | 67 – 69 | F | <59 |
| B+ | 87 – 89 | C+ | 60-69 | D+ | 59-62 | |

**Class Policies:**

1). Attendance: It is highly recommended that you attend lecture. Although attendance will not be considered directly in terms of grading, the assignments and exams will stress material covered in lecture.

2). Each student must do his/her own work. Copying from other students or allowing other students to copy on homework, quizzes, lab assignments, or exams is cheating. It is not tolerated and will result in a grade of “0” for the assignment/exam and possibly an automatic “F” for the course and may be referred to the University Judicial Procedures office.

**Americans with Disabilities Act Information:**

The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you will need accommodations in this class, reasonable prior notice needs to be given to the instructor and to the Center for Disability Services, 162 Olpin Union Building, 581-5020 (V/TDD) to make arrangements for accommodations.