Course Learning Objectives:
1) To apply modern control theory principles to the design of control systems.
2) Demonstrate proficiency with software that aids in the design process.


Grading: Quizzes (3): 75%
Design Project(s): 25%

Quizzes: Quiz #1 (20%): Week 3 (Thursday)
Quiz #2 (25%): Week 6 (Thursday)
Quiz #3 (30%): Week 10 (Thursday)

No make-up exams will be given.

Content: This course introduces modern and post-modern (robust) control theory. It will deal with the state space approach to continuous time system design. The material covered is in Chapters 8, 9, 10 and Appendix A of the text. A working knowledge of the (classical control) material in the previous chapters of the book will be assumed, (thus ECE311 or its equivalent is a required prerequisite).

Notes:
1) In order to have enough time to undertake the project(s), the pace at the start of the term will need to be fast. Students are expected to come to class having read the material before hand.
2) Recommended exercise problems will be given which students are expected to do, as a minimum. The solutions to all problems, in the form of the solutions’ manual for the text, is available at the ECE451/551 section of the instructors web site.