ECE451/551
Control Systems Design I
(Fall 2014)

Office Hours: see web site www.pdx.edu/ece/faculty-office-hours
Web site: www.ece.pdx.edu/~tymerski

TA: none

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

Text book:
Design of Feedback Control Systems, R. Stefani, B. Shahian, C. Savant, and G. Hostetter,

Useful reference:
Applied Classical and Modern Control System Design, by R. Tymerski et al.
Provided on course web site.

Grading system:
- Mid-term exam: Week 6, 2nd class 30%
- Final exam: Week 10, 2nd class 40%
- Matlab/Simulink Project and presentation: Finals week 30%

No make-up exams will be given. All quizzes are comprehensive.

Content: This course introduces modern control theory for the feedback design of continuous time systems.

Notes:
1) A set of notes is available at the course website: www.ece.pdx.edu/~tymerski

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 course website.