Signals and Control Lab, E E 383  
Electrical, Computer, and Software Engineering  
Spring 2008

Instructor: Dr. Xuping Xu, Associate Professor of Electrical, Computer, and Software Engineering  
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Office and Office Hours: REDC 166, M:10:30-11:30AM, T:1:30-3:30PM, F:12:20-1:20PM, or by appointment

Course Title: E E 383, Signals and Control Lab, Required Course

Course Meeting Day, Time, and Location: R, 11:00AM-12:50PM, REDC 148

Course Description: Design, computer simulation, and practical implementation of systems in the areas of systems and controls.

Prerequisite: Concurrent: E E 352; E E 380

Course Objectives: Introduction to Matlab/Simulink; use Matlab/Simulink to do simulations and solve engineering problems; use Matlab/Simulink to solve control systems problems; analyze and design simple control systems.

Topics Covered: Introduction to Matlab/Simulink; Emulation of simple control systems by circuits; Design and simulation of feedback control systems.

Class/Laboratory Schedule: Lab: 2hrs/week

Contribution of Course to Meeting Professional Component: A companion lab to a major junior level course (E E 380) that devotes adequate attention and time to Matlab/Simulink and the analysis, design, and implementation of control systems. It helps to prepare students for more advanced systems courses.

Relationship of Course to Program Outcomes: This course addresses the following program educational outcomes: a, b, e, g, i, k, m, o

Prepared by and Date of Preparation: Xuping Xu, January 14, 2008
Course Webpage: http://ecse.bd.psu.edu/eebd327

Grading Criteria:
Labs 100% (the weight for each lab is proportional to the number of weeks it spans)
There are no exams for the course.
Grade Assignment: A: 93-100; A-: 90-92; B+: 87-89; B: 83-86; B-: 80-82; C+: 76-79; C: 70-75; D: 65-69; F: <65. These guidelines may be revised downward in favor of the students during the course of the semester.

Attendance Policy: Students must be present (and arrive on-time) during the performance of the labs. Failure to do so will result in a point deduction on the laboratory in question.

Makeup Policy: Makeups for missed labs will be allowed in the event of an illness or emergency, but the instructor must be notified before the lab takes place. There will be no makeups for unexcused absences.

Assignments: Lab assignments will be assigned regularly. Each student should find a lab partner for the semester and work in groups of two in the lab. Each student must submit his/her own lab report, unless otherwise indicated. Lab reports are due at the start of the lab period. Lab reports must be typed (dot matrix printers are ok), unless otherwise indicated. You are responsible for documenting the work you have done in a clear and concise manner. You will be graded on spelling, punctuation, grammar, readability, and quality of your writing.

Late Policy: Lab reports turned in late (after the due time) will be penalized 25 percentage points. Assignments handed in more than 1 day late will NOT be accepted.

Academic Integrity: Penn State Erie puts a very high value on academic integrity, and violations are not tolerated. Academic integrity is one of Penn State’s four principles to which all students must abide. Any violation of academic integrity will receive academic and possibly disciplinary sanctions, including the possible awarding of an XF grade which is recorded on the transcript and states failure of the course was due to academic dishonesty. All acts of academic dishonesty are recorded so repeat offenders can be sanctioned accordingly.

I encourage students to help one another, but plagiarizing will not be tolerated in this course. You should be able to explain to me every single detail of your solution to the problem. Both parties involved in the plagiarizing case will receive zero points. Provable cases of cheating will be prosecuted to the fullest extent allowable by the University and the Commonwealth of Pennsylvania. More information on academic integrity can be found at: http://www.pserie.psu.edu/faculty/academics/integrity.htm