Physics 619
Electronics II

Instructor:         David Strom
                    Room 440 Willamette, ph 346-6108

Office hours:      Tuesday 1:30-2:30 PM, or by appointment

Lectures:          Monday, Wednesday, Friday, 11:00-11:50
                    112 Willamette Hall

TA:                None provided

Text:              *The Art of Electronics, 2nd ed*, Horowitz and Hill
                    *Students Manual for the Art of Electronics*, Horowitz and Hayes

Other useful books: *Microelectronics*, Millman and Grabel
                    *Foundation of Analog and Digital Electronic Circuits*, Agarwal and Lang

Course Objectives: The emphasis of the digital portion of this course will be on design of synchronous and asynchronous digital circuits. Analog to digital and digital to analog conversion and other techniques of signal processing will also be covered. At the start of the course we will consider low noise electronics.

Labs:              11 Willamette (Times TBA)
                    Each of the scheduled labs will be 3 hours long. Please read the lab carefully before your section so that you can work efficiently when you are at the lab. You should keep your data in a bound notebook – for example the one you had for Physics 618. If you have reasonably neat hand writing, you may write you lab report in the notebook, otherwise typeset you final report. Your lab reports will be graded by your instructor.

Projects:          An electronics project with some digital component is required. Project proposals are due May 14, but you are encouraged to begin working on your project much earlier. The project itself is due Friday, June, 8. More details are given in the attachment.

Grading Criteria:  The grading weights (assuming one quiz and one midterm ) will be 40% lab, 20% homework, 5% quiz, 10% midterm, and 25% final. In order to pass the course you must complete the labs, including the project.