GEORGIA INSTITUTE OF TECHNOLOGY
SCHOOL of ELECTRICAL & COMPUTER ENGINEERING

ECE 2030: Introduction to Computer Engineering
Sections A & B
Fall 2005

Syllabus

**Instructor:** Prof. David V. Anderson
**Office:** CoC 355
**Phone:** 404-385-1270
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**Office Hours:** Mon 10:00–11:30 AM, Wed 10:00–11:30 AM, or by appointment (e-mail to schedule).

**TA:** Christopher Luu & Melissa Amoros
**Office:** TBA

**Office Hours:** TBA. Note, the TAs from all sections of 2030 will share responsibilities and be available to help you.

All questions should be directed to the TAs first. Unresolved questions may be directed to the instructor.

**WWW:** http://users.ece.gatech.edu/~dva/ece2030

**Texts:** *Logic and Computer Design Fundamentals, 3e*, M. Mano and C. Kime, text will be supplemented with class notes

**Prerequisites:** CS1311 or CS1321 or CS1371

**Grading:**
- Homework: 20%
- Attendance/Participation: 10%
- Quiz I, II: 20% each
- Final: 30%

**Course Objectives:**
This course illuminates the design and operation of digital computing systems using VLSI technology. Topics include: function definition, switch and wire design, boolean functions, combinational logic, memory, state machines, sequential logic, digital arithmetic, microarchitecture, instruction sets, controller, assemble language.
Attendance:
Students are responsible for all material covered in class, including changes in schedules announced in class. Occasional quizzes will be given in class to reward those in attendance and to help motivate students to attend. Students who come to lectures will be given priority in the labs—the lab TA nor the professor are not responsible for repeating information already given in lecture.

Homework Assignments:
Homework assignments will be turned in at the beginning of class on the due date. A 25 percentage point penalty per day is applied to late homeworks. No submission is allowed after the solutions are posted. Assignments will not be considered for regrading later than the next class period after they are returned.

Academic Honesty:
Although students are encouraged strongly to work together to learn the course material, all students are expected to complete quizzes and exams individually, following all instructions stated in conjunction with the exam. You are allowed (and encouraged) to work together with other students on homework, as long as you write up and turn in your own solutions. You are also allowed (and encouraged) to ask me questions, although you should try to think about the problems before asking. I strongly encourage you to work on extra problems from the book on your own. All conduct in this course will be governed by the Georgia Tech honor code. Additionally, it is expected that students will respect their peers and the instructor such that no one takes unfair advantage of anyone else associated with the course. Any suspected cases of academic dishonesty will be reported to the Dean of Students for further action.