

ECE 2030 — Introduction to Computer Engineering
Section A, Fall 2008
COURSE SYLLABUS

Instructor: Prof. Hsien-Hsin "Sean" Lee

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Office Hours: TBD

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Course Prerequisite: CS 1311/1321/1501 Introduction to Computing

Course Description: To learn digital principles to building a computer system from the ground up. The course materials include number systems, Boolean algebra, architectural concepts, programming model, combinational datapath elements, sequential logic, memory and I/O design. The objective of this course is to prepare the essential and rudimentary basis for you to become the next generation digital circuits/microprocessor designer.

Course Webs:

- <http://www.ece.gatech.edu/~leehs/ECE2030> (For lecture notes and assignments)
- <http://tsquare.gatech.edu> (For accessing your grades)
- <http://www.ece.gatech.edu/academic/courses/ece2030> (The general 2030 site)

Class Meetings: MWF 10:05-10:55am

Textbooks:

- M. Morris Mano and Charles R. Kime, "Logic and Computer Design Fundamentals," 3rd edition. 2003. Prentice Hall. (REQUIRED)
- Randal E. Bryant and David O'Hallaron, "Computer Systems: A Programmer's Perspective." Prentice Hall. (RECOMMENDED)
- Class notes and handouts in class.

Course Schedule: Check out the course website.

Grading:

- Four homework assignments (3 written, 1 programming. Individual work. Collected in the **first 5 minutes** of due day in class. No late turn-in accepted.) (5%, 5%, 5%, 10%)
- Three in-class exams (Closed books, closed notes, no calculator unless said otherwise. Each exam focuses on the material covered since the last exam.) (45%)
- Final exam (Closed books, closed notes, no calculator unless said otherwise. Cover the entire semester.) (30%)
- [90-100] = A, [80-90] = B, [70-80] = C, [55-70] = D, [0-55] = F (Will scale)

Honor Code: Students are expected to abide by the Georgia Tech Honor Code and to avoid any instances of academic misconduct in homework assignments and exams. Any violation will be immediately and directly reported to the Dean of Students' Affairs for further action.