ECE/Comp Sci 352
Digital Systems Fundamentals

Fall 2001

Introduction – Lecture 2

Charles R. Kime

Overview

• Information Sources
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• Course Role
Information Sources

- Course homepage
  - [http://courses.engr.wisc.edu/ecow/get/ece/352/kime/](http://courses.engr.wisc.edu/ecow/get/ece/352/kime/)
  - Important source for new and updated information
- E-mail – important critical information
- Course Description handout
- Course Conduct handout
- Course Outline handout

Course Description (Handout)

- **Times & Places**
  - Aside from sharing discussions and office hours and one TA, Lecture 1 and Lecture 2 operate separately!
- **Instructor & TAs**
  - Chuck Kime
  - Lenny Ankireddi
  - Nandini Karra
  - Rajiv Rammohan (shared with Lecture 1)
- **Prerequisite** – just need to know a bit of programming in procedural language
Course Description (Continued)

- **Textbook** – must be 2nd Edition or 2nd Edition Updated
- **Computer Usage** – Unix workstations at CAE
- **Homework** – Not submitted or graded, but essential for quiz/final exam prep!
- **Grading** – 4 quizzes: 60%; 2 Projects 20%; Final 20%

Course Conduct (Handout)

- Critical info for doing well in course – Be familiar with it!
- **Lectures** – Don’t depend on what is on website – will be very incomplete
- **Computer-Aided Engineering (CAE)**
  - Unix introductory tutorials from CAE
  - Mandatory Tutorials from 352 TAs – sign-up
- **Project**
  - Individual and teams of two
  - Project Help Sessions – sign-up
  - Submitted and graded
Course Conduct (Continued)

- **Quizzes and Final Exam**
  - Note rules – makeup permission will not be given freely!
  - Note final date – attendance on that date required!

- **Discussions** – Note guidance re sections of discussions and restrictions re exam review sessions

- **Consultation**
  - Office Hours
    - Use TAs for Lecture 1 as well.
    - All TA office hours in 3610 Engineering Hall

E-mail

- Technical questions, e-mail only the designated TA for the week on “instructor Kime” website.
- Administrative questions or other questions, e-mail me.

- **Resources for Special Help**
  - McBurney Center – alternative testing or other arrangements
  - Course problem consultation: me
  - Broader problem consultation: advisor or counselor

- **Academic Misconduct**
  - We really don’t expect it to happen. Please don’t disappoint us.
Course Outline (Handout)

- Three or more additional lectures will be cancelled.
- Notes contain important information
  - Reading assignments and homework timing
  - Tutorial weeks
  - Project help sessions weeks
  - Quiz times and final exam time!

Course Outline (Continued)

- Major topics in Course
  - Information representation and manipulation
  - Logic elements and Boolean algebra
  - Combinational Logic
  - Arithmetic Logic
  - Sequential Logic
  - Memory and Programmable Logic
  - Register Transfers
  - Control
  - Simple computers
Course Role

- General – Deals with the design of digital systems and computer hardware
- Links to Other Courses
  - **Comp Sci Students** – Connects to Comp Sci 354 and can be followed by Comp Sci 552
  - **CMPE Students** – Connects to ECE 354 and is followed by many course including required ECE 351, ECE 353, ECE 551 and ECE 552 – The most important fundamental course in hardware for your program!
  - **EE Students** – One of the several fundamental courses for your program – required for some lab and elective courses