CMSC 411: Computer Systems Architecture

Spring 2003

Instructor: Clyde Kruskal. Office: AVW 3215. Office phone: 301-405–2683.
E-mail: `kruskal@cs.umd.edu`.
Office hours: Tuesday: 9:30am–12:30pm
Also by appointment.

Class Time: Tuesday and Thursday: 12:30-1:45

Text: John L. Hennessy and David A. Patterson, *Computer Architecture: A Quantitave Approach*, Morgan Kaufmann Publishers, Third Edition, 2003.

Course Work: Course work will consist of written homework assignments, and two exams (a midterm and a final).

As a courtesy to the grader, homeworks are to be written clearly and neatly. Poorly written work will not be graded. Part of your grade will be based not only on correctness, but also on the simplicity, clarity, and elegance of your solutions.

Grading: Final grades will be based on the written assignments, a midterm exam (April 10), and a final exam (Thursday, May 22, 10:30am-12:30pm). The relative weights of these will be approximately 10% for the homework total, 40% for of the midterm, and 50% for the final exam.

Syllabus: The following is a *tentative* list of topics and readings in approximate order.

1. Fundamentals of Computer Design, Ch. 1
2. Instruction Set Principles and Examples, Ch. 2
3. Pipelining, Appendix A
4. Instruction Level Parallelism, Ch. 3 & 4
5. Memory Hierarchy Design, Ch. 5
6. Storage Systems, Ch. 7
7. Networks and Parallel Computing, Ch. 6 & 8