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Motivation: Computation has become one of the three legs of science and engineering: Theory, Experiment, and Computation. No discipline has escaped the influence of computation and many disciplines have been reinvented because of new computational capabilities. Today’s fastest computers perform over 4 trillion multiplications per second. Good mathematical algorithms are essential to effectively harness this power. This class is the first step in understanding the mathematics of computation.

Course Description: This course presents the mathematical underpinnings of modern numerical methods and practical implementations of those methods.


Topics Covered: From Chapter 3 to Chapter 6.

Exams: There will be three in-class tests (Tentative Schedule: September 23rd, October 21st, and November 18th) and a comprehensive exam (Tuesday, December 9th, 2003, 20:00–22:00).

All exams are closed book. The lowest midterm score will be dropped. There will be no make up exams.

Homework: Homeworks are due on Thursdays. You can work in groups, but you must turn in your own write-up. Your lowest two homework scores will be dropped. No late homework is accepted.

Quizzes: Quizzes may be introduced to help the class to keep-up.
Programming: There will be three programming assignments. You can use your preferred programming language. You can work in groups, but you must turn in your own write-up. Your lowest programming assignment score will be dropped.

Grading Scheme: 100 points – homeworks + quizzes
50 points – each programming assignment
100 points – each midterm
200 points – Final exam
600 points – Total Score

Religious Conflicts: Students who have conflict between religious observance dates and course examinations or assignments, please contact me before September 8th, 2003.

Important Date: October 17th, 2003 is the last day for dropping your class.