

Collaboration: I encourage you to discuss the non-computer homework with other students in the class and/or with me. What you turn in should reflect your personal understanding of the problems, so you must write the solutions yourself without referring to notes from your collaborative work. If you find you are not able to do this, then probably you have not yet fully understood that particular problem, so you should scrap your solution and come ask me questions.

For computer problems, you may work in pairs and together submit one solution. **Absolutely no cutting and pasting of code (or anything of that nature) from anyone other than your partner for that problem.** On these collaborative computer problems, you should be sure you understand in detail the solution your pair submits; the exams will involve some programming problems that you will need to do on your own.

There will be no collaboration allowed on the exams.

Anticipated Schedule

Week 1 (1/18, 1/20)	Solving linear systems (Ch. 2), intro to Matlab (in-class tutorial)
Week 2 (1/25, 1/27)	Accuracy of linear system-solves (Sec. 1.7, Ch. 2)
Week 3 (2/1, 2/3)	Interpolation (Ch. 3)
Week 4 (2/8, 2/10)	Solving nonlinear equations (Ch. 4)
Week 5 (2/15, 2/17)	Solving multiple nonlinear equations (outside material)
Week 6 (2/22, 2/24)	Optimization (Sec. 4.10 and outside material)
Week 7 (3/1, 3/3)	Least Squares (Ch. 5), Midterm due 3/3 (on material thru Wk 6)
SPRING BREAK	
Week 8 (3/15, 3/17)	Initial Value Problems for ODEs (Ch. 7)
Week 9 (3/22, 3/24)	Fourier Analysis (Ch. 8)
Week 10 (3/29, 3/31)	Random Numbers and Simulation (Ch. 9)
Week 11 (4/5, 4/7)	Eigenvalue and Singular Value Problems (Ch. 10)
Week 12 (4/12, 4/14)	Boundary Value Problems for ODEs (outside material)
Week 13 (4/19, 4/21)	Boundary Value Problems con't, PDF (Ch. 11)
Week 14 (4/26, 4/28)	PDEs con't
Exam period	Final Exam due by end of final exam period