

Physice 430

Course Schedule

Winter 2009

(modified: 8 January 2009)

Date	Lab
Jan 8	1. Grids and Loops
Jan 15	2. Derivatives on Grids
Jan 22	3. Differential Equations on Grids <i>Checkpoint #1*</i>
Jan 29	4. Wave Equation (steady state) <i>Take-home problem #1</i>
Feb 5	5. Hanging Chain and Quantum Bound States
Feb 12	6. Animating the Wave Equation
Feb 19	7. Staggered Leapfrog in 2-d <i>Checkpoint #2*</i>
Feb 26	8. Diffusion (or Heat) Equation
Mar 5	9. Implicit Methods <i>Checkpoint #3*</i>
Mar 12	10. Schrödinger's Equation <i>Take-home problem #2</i>
Mar 19	11. Poisson's Equation I
Mar 26	12. Poisson's Equation II <i>Checkpoint #4*</i>
Apr 2	13. Gas Dynamics
Apr 9	14. Solitons
Mon Apr 20	2:30-5:30 pm, Final Exam, Sect. 2
Tue Apr 21	7:00-10:00 pm, Final Exam, Sect. 1

*At each indicated checkpoint you should have all the previous work completed. Late work will not be accepted after a checkpoint.