

**Math 490B/710C, Fall 2005, Tentative Schedule:**

Date	Section/Topic
W 8/31/05	First Day Handout; Introduction to PDE's, Importance of Numerical Solutions
M 9/5/05	LABOR DAY
W 9/7/05	Definitions, Characteristics, and Boundary Conditions
M 9/12/05	Characteristics and BC's
W 9/14/05	Characteristics and BC's
M 9/19/05	Finite Difference Methods for Hyperbolic Equations
W 9/21/05	Finite Difference Methods for Hyperbolic Equations
M 9/26/05	Finite Difference Methods for Hyperbolic Equations
W 9/28/05	Order of Accuracy of FD Schemes
M 10/3/05	Stability of FD Schemes
W 10/5/05	Dissipation and Dispersion of FD Schemes
M 10/10/05	Finite Difference Methods for Parabolic Equations
W 10/12/05	Finite Difference Methods for Parabolic Equations
M 10/17/05	Finite Difference Methods for Parabolic Equations
W 10/19/05	Midterm Exam
M 10/24/05	Finite Element Methods for Elliptic Equations
W 10/26/05	Finite Element Methods for Elliptic Equations
M 10/31/05	Finite Element Methods for Elliptic Equations

Date	Section/Topic
W 11/2/05	Finite Element Methods for Elliptic Equations
M 11/7/05	Finite Element Methods for Elliptic Equations
W 11/9/05	Finite Element Methods for Elliptic Equations
M 11/14/05	Finite Element Methods for Elliptic Equations
W 11/16/05	Order of Convergence of FE Methods
M 11/21/05	Weighted Residual Method
W 11/23/05	THANKSGIVING
M 11/28/05	Multigrid Methods
W 11/30/05	Multigrid Methods
M 12/5/05	Project Presentations
W 12/7/05	Project Presentations
M 12/12/05	Review
F 12/19/05	FINAL EXAM