Syllabus for Econ 276: MATHEMATICAL ECONOMICS
Duke University Fall 2010

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Office hours: TBA

Textbooks:

Course Description: A thorough knowledge of mathematics is essential for understanding almost all fields of economics. Mathematics is essential in the expression and communication of ideas in economics. The goal of this course is to help students understand and use the mathematics required for studying economics at the master’s level. As a way of demonstrating the importance of mathematics in economics, the mathematical concepts studied will be illustrated with applications in economics.

Grades:
25% Five Homework Assignments
25% In class 75 minutes Midterm
45% 24-Hour Take Home Final Exam
5% Participation

Tentative Schedule:
1. One-Variable Calculus : S&B Ch. 2-5
2. Linear Algebra : S&B Ch 7-9
4. Static Optimization
5. Dynamic Optimization