SYLLABUS-ECON 1078
MATHEMATICAL TOOLS FOR ECONOMISTS - I

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Class: 11:00am - 12:35 p.m. daily
Class Room: ECON 117
Office Hours: MF 9:30 - 11:00 a.m. or by app.
Summer 1997

1. INTRODUCTION
Mathematics is a language developed for expressing and analyzing quantitative issues. This class, and its sequel ECON 1088, will teach you mathematical tools that you will use in your economics and some other classes, and in your everyday life. The class will give you practice in logical thinking. The material of this class will cover Algebraic operations, Systems of linear equations, Matrices, Linear programming and basic Statistics.

2. TEXTBOOK

3. COURSE OUTLINE
Chapter 1: Basic Algebraic Operations
Chapter 2: Equations, Graphs, and Functions
Chapter 3: Exponential and Logarithmic Functions
Chapter 4: Mathematics of Finance
Chapter 5: Systems of Linear Equations; Matrices
Chapter 6: Linear Inequalities and Linear Programming
Chapter 7: Probability

4. HOMEWORK
Doing homework is the best and the necessary way to learn the material. Homework will be assigned in every class. You are encouraged to work with each other. Even though homework will not be collected, all questions on quizzes and some questions for exams will come from homework problems.

5. EXAMS and GRADING
There will be three quizzes, two mid-term exams, and one final exam. No make-up quiz and exam will be allowed. Every exam is cumulative and will be counted for the final grade:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quizzes</td>
<td>15%</td>
</tr>
<tr>
<td>Mid-term I</td>
<td>25%</td>
</tr>
<tr>
<td>Mid-term II</td>
<td>25%</td>
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<tr>
<td>Final Exams</td>
<td>35%</td>
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6. CALCULATOR
You do not need an advanced calculator. You are not allowed to use some advanced functions, such as matrix inverse and quadratic function graphing, in your calculator in all exams. Any regular scientific calculator with logarithmic functions and exponential functions will work.

7. ATTENDANCE
I will take attendance irregularly. Every attendance that I take is worth 5 points of extra credits adding to your quizzes.