SYLLABUS

MATHEMATICAL TOOLS FOR ECONOMISTS - I
(ECO 1078)

Instructor: Haizheng Clifford Li
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Class: 1:00 - 1:50 p.m. MWF
Class Room: Ekla E1B20
Office Hours: MF 4:00 - 5:30 p.m. or by app.
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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:
Raymond A. Barnett and Michael R. Ziegler,

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 for quizzes will come from homework problems.

5. QUIZZES AND EXAMS:
Six quizzes will be given in class. There will be two mid-term exams and one final exam. No make-up quiz and exam will be allowed.

6. GRADING:
Six Quizzes: 30%
Mid-term I: 20%
Mid-term II: 20%
Final Exams: 30%