Objective: The purpose of this course is to review mathematical tools and intuition that will be valuable in analyzing a wide range of economic and finance problems.

Course Outline:

- Economic Models – Lecture 1
- Linear Models and Matrix Algebra – Lecture 1
- Comparative Statics and the Concept of Derivative – Lecture 2
- Rules of Differentiation and Their Use in Comparative Statics – Lecture 2
- Comparative Static Analysis of General-Function Models – Lecture 3
- Unconstrained Optimization – Lecture 4
- Exponential and Logarithmic Functions – Lecture 5
- Constrained Optimization – Lecture 6
- Integration – Lecture 6
- Mathematics of Finance (if time allows)

Waiver Exam: July 14, 2015, Tuesday
Final Exam: August 4, 2015, Tuesday
Quiz: There will be three “pre-announced” quizzes during the course and 2 problem sessions