Mathematical economics can be effectively learned only through substantial practice. The successful completion of this course, however, will allow students to become literate in the language of modern economics. It will also provide a solid background in the mathematical tools that are a prerequisite for graduate study in the social sciences, business administration and management science.

The final grade in this course will be based on the grades received on each of three tests (30% per test) and on homework assignments (10%). All students are expected to attend all classes, participate in class discussions and complete all assignments. Homework assignments will not be accepted after the due date.

The dates of the exams will be:

Test 1 - September 29
Test 2 - November 3
Final - Tuesday, December 13 at 10:30 a.m.

Topics:

I. Introduction - Chapters 1, 2 and 3.
II. Matrix Algebra and Linear Economic Models - Chapters 4 and 5.
III. Comparative Statics I: derivatives and partial derivatives - Chapters 6 and 7.
IV. Comparative Statics II: differentials - Chapter 8.
V. Unconstrained Optimization I: 1st and 2nd order conditions - Chapter 9.
VI. Exponential and Logarithmic Functions and Applications - Chapter 10.
VII. Unconstrained Optimization II: multivariate analysis - Chapter 11.
VIII. Constrained Optimization I: the Lagrange method - Chapter 12.
IX. Constrained Optimization II: duality and the envelope theorem - Chapter 13.
X. Economic Dynamics and Integral Calculus (if time permits) - Chapters 14, 15, and 17.

Note: If you have a disabling condition which may interfere with your ability to successfully complete this course, please contact the Office of Disabled Student Services, 226 Hewitt Union, Phone: 312-3358. E-mail: dss@oswego.edu