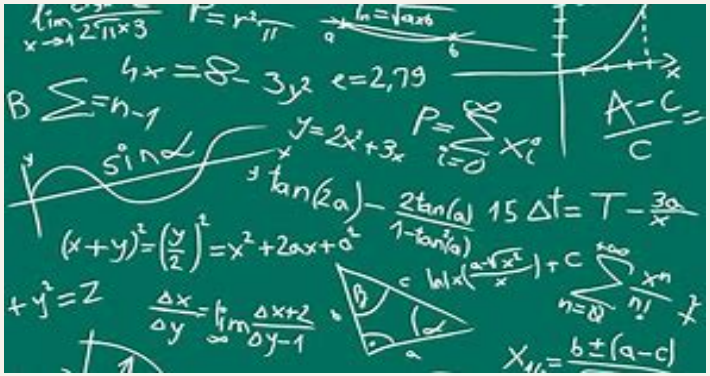
Econ 5040
Mathematics for Economists



This course is a survey of the mathematics necessary to study economics at the graduate level. The material emphasizes the prerequisite mathematics for graduate microeconomics, macroeconomics and econometric theory courses.

- The course covers linear algebra and the solution of linear economic and econometric models.
- The course covers single and multivariable calculus for the comparative static analysis of linear and general function economic models.
- The course emphasizes multivariable optimization theory with and without constraints.
- The course briefly introduces economic dynamics through the study of elementary differential and difference equations.
- All examples and problems presented in class come from material found in graduate level economics and econometrics courses.

Who should take this course:

- **Undergraduate students interested in perusing graduate study in economics are strongly recommended to take this course.**
- **Student in other social sciences such as history, political science or sociology that use quantitative models would find the course very useful.**
- **Business students in accounting, finance and marketing that are interested in quantitative models would greatly benefit from this course.**

****Prerequisites for the course are Junior standing and 12 or more credit hours of economics, including ECON 2010, ECON 2020, and either (MATH 1220 or MATH 1700); or instructor approval.**

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