



Mathematical Economics - B.S.

College of Arts and Sciences

The mathematical economics major offers students a degree program that combines mathematics, statistics, and economics.

120 hours (minimum)

Any student earning a Bachelor of Science (BS) degree must complete a minimum of 60 hours in natural, physical, mathematical, and computer science.

University Studies Program Requirements

- I. Math (completed by Premajor Requirement)
II. Foreign Language (placement exam recommended)
III. Inference-Logic (completed by Premajor Requirement)
IV. Written Communication
V. Oral Communication* (can be partially completed by Major Requirement)
VI. Natural Sciences
VII. Social Sciences (partially completed by Major Requirement)
VIII. Humanities
IX. Cross-Cultural (choose a Humanities course)
X. Electives (choose two Natural Science courses)

USP hours: 25-37

Graduation Writing Requirement

After attaining sophomore status, students must complete a Graduation Writing Requirement course. See "University Writing Requirement" on page 75 of the 2008-2009 UK Bulletin.

Graduation Writing Requirement Hours: 3

College Requirements

- I. Foreign Language (placement exam recommended)
II. Disciplinary Requirements
a. Natural Science (completed by USP Elective Requirement)
b. Social Science (completed by Major Requirements)
c. Humanities (completed by USP Cross-Cultural Requirement)
III. Laboratory or Field Work
IV. Electives

College Requirement hours: 7-15

Premajor Requirements

- ^MA 113 Calculus I
MA 114 Calculus II

Premajor hours: 8

Major Requirements

Mathematics Core Requirements

- MA 213 Calculus III
MA 214 Calculus IV
MA 320 Introductory Probability
MA 322 Matrix Algebra and its Applications

Mathematics Core hours: 13

Economics Core Requirements

- ^ECO 201 Principles of Economics I
ECO 202 Principles of Economics II
ECO 391 Economic and Business Statistics
ECO 401 Intermediate Microeconomic Theory
ECO 402 Intermediate Macroeconomic Theory

Economics Core hours: 15

Other Course Work Required for the Major

For the Mathematics Component:

Choose one of the following sequences: MA 416G and MA 417G, MA 471G and MA 472G, or STA 524 and STA 525

For the Economics Component

*Choose 9 hours of 300+ level economics courses

For the Statistics Component

Choose STA 291 or a higher level statistics course

Other Major hours: 18

Electives

Electives should be selected by the student to lead to the minimum total of 120 hours required for graduation

Total Minimum Hours Required for Degree 120

^Course used towards completion of a USP Requirement.

*COM 199 + ECO 499 satisfy the Oral Communication Requirement.