

ECONOMICS AND MATHEMATICS

4A Lehman Hall

854-3454

Economics Department Representative: Rajiv Sethi

Mathematics Department Representative: Walter Neumann

The Economics and Mathematics major provides the student with a grounding in economic theory comparable to that provided by the general economics major and exposes the student to rigorous and extensive training in mathematics. The program will be particularly useful for students planning to do graduate work in economics, which frequently demands greater mathematical training than that acquired through the minimum requirements of the basic economics degree.

REQUIREMENTS FOR THE MAJOR

A major in Economics and Mathematics must complete the following 14 courses or their equivalents:

Economics: (7 courses)

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| ECON BC 3018 | <i>Econometrics</i> |
| ECON BC 3033 | <i>Intermediate Macroeconomic Theory</i> |
| ECON BC 3035 | <i>Intermediate Microeconomic Theory</i> |
| ECON BC 3041 | <i>Theoretical Foundations of Political Economy</i> |
| ECON BC 3062 | <i>Senior Thesis</i> (two semesters of the <i>Senior Thesis</i> are optional) or a Senior Seminar in Economics or Mathematics (<i>ECON BC 3063</i> , <i>MATH V 3951</i> , <i>MATH V 3952</i> or an equivalent approved by the Chairs of the Mathematics and Economic majors) |

Two economics electives with an intermediate micro- or macroeconomic theory course as prerequisite.

Mathematics: (7 courses)

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| MATH V 1101–1201 | <i>Calculus IA, IIIA</i> or <i>MATH V 1107–1108 Honors Mathematics</i> and <i>MATH V 1201 Calculus IIIA</i> |
| MATH V 2010 | <i>Linear Algebra</i> |
| MATH V 2500 | <i>Analysis and Optimization</i> or <i>MATH W 4061 Introduction to Modern Analysis</i> |
| SIEO W 3600 | <i>Introduction to Probability and Statistics</i> |

Two electives above the 2000 level, one of which can be *MATH V 3951* or *MATH V 3952*, the undergraduate seminar in mathematics.

Students must obtain approval from each department representative before selecting electives. In exceptional cases, these may be from related fields.