MATHEMATICS/ECONOMICS MAJOR

This major, offered jointly by the departments of economics and mathematics, is designed to give the student an excellent background in modern economic analysis and a solid grounding in those mathematical disciplines necessary for a full understanding of economic analysis. Because it both demands and fosters careful reasoning as well as a facility with abstract formulations of problem situations, it is an apt prelaw program. Its high degree of difficulty makes it attractive to business recruiters and it is particularly appropriate for graduate studies in economics, business, and other applied quantitative fields.

Program Activities

Majors in this program are eligible for honors at graduation in mathematics/economics. Some majors in this program have done internships at banks or investment firms. Such internships are not required and do not count among the four electives in the major.

For more information

Visit the Math and Economics Program page.

Requirements

Students enrolled in this program are required to take the following courses:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required Courses</td>
<td></td>
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</tr>
<tr>
<td>ECON 1100</td>
<td>Basic Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 1200</td>
<td>Basic Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>ECON 3116</td>
<td>Macroeconomic Analysis</td>
<td>4</td>
</tr>
<tr>
<td>ECON 3118</td>
<td>Microeconomic Theory</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1207</td>
<td>Calculus II</td>
<td>4</td>
</tr>
<tr>
<td>MATH 1700</td>
<td>Mathematical Modelling</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2004</td>
<td>Multivariable Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2001</td>
<td>Discrete Mathematics</td>
<td>4</td>
</tr>
<tr>
<td>MATH 2006</td>
<td>Linear Algebra I</td>
<td>4</td>
</tr>
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</table>

Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 3006</td>
<td>Probability and Statistics</td>
<td></td>
</tr>
<tr>
<td>MATH 3007</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ECON 2140</td>
<td>Statistics I and Statistical Decision Making</td>
<td></td>
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</tbody>
</table>

Electives

Select four electives in mathematics or economics

Any course with the MATH subject code (numbered 2000 or higher) or the ECON subject code may fulfill this requirement. Of these four courses, at least one course must be in mathematics and one must be in economics.

Required courses and sufficient electives to fulfill the major are available on both campuses.

Availability

The major in mathematics/economics is available at Fordham College at Rose Hill and Fordham College at Lincoln Center. Students in Fordham School of Professional and Continuing Studies may major in mathematics/economics only if their schedules are sufficiently flexible to permit them to take day courses at the Rose Hill or Lincoln Center campuses.

Fordham College at Rose Hill students: The requirements above are in addition to those of the Core Curriculum.

Fordham College at Lincoln Center students: The requirements above are in addition to those of the Core Curriculum.

Professional and Continuing Studies students: The requirements above are in addition to those of the PCS Core Curriculum.

Updated: 10-14-2019