Given the mathematical and graphical models used extensively in economics, economics and mathematics are natural partners. Our combined major with mathematics is designed for students who want to further develop their mathematics skills to enhance their understanding and interest in economics. This combined major is strongly recommended for students with an interest in pursuing graduate studies in economics.

**Program Requirements**
Complete all courses listed below unless otherwise indicated. Also complete any corequisite labs, recitations, clinicals, or tools courses where specified and complete any additional courses needed beyond specific college and major requirements to satisfy graduation credit requirements.

**University-Wide Requirements**
All undergraduate students are required to complete the University-Wide Requirements (http://catalog.northeastern.edu/undergraduate/university-academics/university-wide-requirements).

**NUpath Requirements**
All undergraduate students are required to complete the NUpath Requirements (http://catalog.northeastern.edu/undergraduate/university-academics/nupath).

**Experiential Liberal Arts**
All undergraduate students in the College of Social Sciences and Humanities are required to complete the Experiential Liberal Arts Requirement (http://catalog.northeastern.edu/undergraduate/social-sciences-humanities/#ela).

### Economics Requirements

**Introduction to College**
- ECON 1000 Economics at Northeastern
- or MATH 1000 Mathematics at Northeastern

**Required Economics**
- ECON 1115 Principles of Macroeconomics
- ECON 1116 Principles of Microeconomics
- ECON 2315 Macroeconomic Theory
- ECON 2316 Microeconomic Theory
- ECON 2560 Applied Econometrics

**Economics Electives**
Complete four economics electives with not more than two at the introductory level:

- ECON 1200 to ECON 1990

**Mathematics Requirements**

**Required Mathematics**
- MATH 1365 Introduction to Mathematical Reasoning
- MATH 1341 Calculus 1 for Science and Engineering
- MATH 1342 Calculus 2 for Science and Engineering
- MATH 2321 Calculus 3 for Science and Engineering
- MATH 2341 Differential Equations and Linear Algebra for Engineering
- MATH 2331 Linear Algebra
- MATH 3081 Probability and Statistics

**Mathematics Electives**
Complete two courses in the following range:
- MATH 3001 to MATH 4999

The following courses are recommended:
- MATH 3150 Real Analysis
- MATH 4581 Statistics and Stochastic Processes

**Breadth Course**

**Computer Science**
- CS 1100 Computer Science and Its Applications

**Integrative Requirements**

**Advanced Writing in the Disciplines**
- ENGW 3308 Advanced Writing in the Social Sciences

**Integrative Course**
Complete one of the following:
- ECON 4692 Senior Economics Seminar
- MATH 4025 Applied Mathematics Capstone
- MATH 5131 Introduction to Mathematical Methods and Modeling

**Combined-Major GPA/Credit Requirement**

A GPA of 2.000 is required in the following six courses with no grade lower than C-:
- ECON 1115 Principles of Macroeconomics
- ECON 1116 Principles of Microeconomics
- ECON 2315 Macroeconomic Theory
- ECON 2316 Microeconomic Theory
Economics and Mathematics, BS

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 2560</td>
<td>Applied Econometrics</td>
</tr>
<tr>
<td>MATH 3081</td>
<td>Probability and Statistics</td>
</tr>
</tbody>
</table>

A cumulative GPA of 2.000 is required in all math courses. A grade of C or higher is required in all math courses numbered MATH 2999 or below; grades below C will not count toward the degree. Complete 76 semester hours in the major.

Program Requirement

128 total semester hours required