ECONOMICS & MATHEMATICS

1019 Milstein Learning Center
212-854-3454
Department Administrator: Robert O’Connor

Mission
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.

Economics Department Representative: Sharon Harrison
Mathematics Department Representative: David Bayer

Requirements for the Major
A major in Economics and Mathematics must complete the following 15 courses or their equivalents:

Economics (8 courses)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Name</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON BC1003</td>
<td>Introduction to Economic Reasoning</td>
<td>3</td>
</tr>
<tr>
<td>ECON BC3018</td>
<td>Econometrics</td>
<td>4</td>
</tr>
<tr>
<td>ECON BC3033</td>
<td>Intermediate Macroeconomic Theory</td>
<td>4</td>
</tr>
<tr>
<td>ECON BC3035</td>
<td>Intermediate Microeconomic Theory</td>
<td>4</td>
</tr>
<tr>
<td>ECON BC3041</td>
<td>Theoretical Foundations of Political Economy</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following: 4

- ECON BC3062 Senior Thesis II (two semesters of the Senior Thesis are optional)
- ECON BC3063 Senior Seminar *

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

Mathematics (7 courses)

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Name</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH UN1102</td>
<td>Calculus II</td>
<td>6</td>
</tr>
<tr>
<td>- MATH UN1201</td>
<td>and Calculus III</td>
<td></td>
</tr>
<tr>
<td>MATH UN2010</td>
<td>Linear Algebra</td>
<td>3</td>
</tr>
<tr>
<td>MATH UN2500</td>
<td>Analysis and Optimization **</td>
<td>3</td>
</tr>
<tr>
<td>SIEO W3600</td>
<td>(or STAT GU4001)</td>
<td>4</td>
</tr>
</tbody>
</table>

Two electives at or above the 2000 level ***

* MATH UN3951 Undergraduate Seminars in Mathematics I, or an equivalent approved by the Chairs of the Mathematics and Economic departments is an acceptable alternative to ECON BC3063 Senior Seminar.

** MATH GU4061 Introduction To Modern Analysis I is an acceptable alternative to MATH UN2500 Analysis and Optimization.

*** MATH UN2030 Ordinary Differential Equations is an approved Mathematics elective. Also approved is MATH UN3951 Undergraduate Seminars in Mathematics I.

Students must obtain approval from each department representative before selecting electives. In exceptional cases, these may be from related fields; other courses can be taken with prior approval.

Cross-Listed Courses

Economics (Barnard)

ECON BC3018 Econometrics. 4 points.
Prerequisites: ECON BC3033 or ECON BC3035, and ECON BC2411 or STAT W1111 or STAT W1211, or permission of the instructor.
Specification, estimation and evaluation of economic relationships using economic theory, data, and statistical inference; testable implications of economic theories; econometric analysis of topics such as consumption, investment, wages and unemployment, and financial markets.

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Name</th>
<th>Times/Location</th>
<th>Instructor</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 3018</td>
<td>001/07812</td>
<td>M W 11:40am - 12:55pm L103 Diana Center</td>
<td>Homa Zarghamee</td>
<td>4</td>
</tr>
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Spring 2020: ECON BC3018

<table>
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<th>Course Number</th>
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<th>Times/Location</th>
<th>Instructor</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 3018</td>
<td>001/00163</td>
<td>T Th 11:40am - 12:55pm 323 Milbank Hall</td>
<td>Noha Emara</td>
<td>4</td>
</tr>
</tbody>
</table>

ECON BC3033 Intermediate Macroeconomic Theory. 4 points.
Prerequisites: An introductory course in economics and a functioning knowledge of high school algebra and analytical geometry or permission of the instructor.
Systematic exposition of current macroeconomic theories of unemployment, inflation, and international financial adjustments.

<table>
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<tr>
<th>Course Number</th>
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<th>Times/Location</th>
<th>Instructor</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 3033</td>
<td>001/07802</td>
<td>M W 10:10am - 11:25am 504 Diana Center</td>
<td>Martina Jaso, Martha Susana Jaimes Builes</td>
<td>4</td>
</tr>
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Spring 2020: ECON BC3033

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Course Name</th>
<th>Times/Location</th>
<th>Instructor</th>
<th>Points</th>
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</thead>
<tbody>
<tr>
<td>ECON 3033</td>
<td>001/00166</td>
<td>M W 6:10pm - 7:25pm 504 Diana Center</td>
<td>Martina Jaso</td>
<td>4</td>
</tr>
<tr>
<td>ECON 3033</td>
<td>002/00167</td>
<td>T Th 6:10pm - 7:25pm 504 Diana Center</td>
<td>Andre Burgstaller</td>
<td>4</td>
</tr>
</tbody>
</table>
### ECON BC3035 Intermediate Microeconomic Theory. 4 points.
Prerequisites: An introductory course in microeconomics or a combined macro/micro principles course (ECON BC1003 or ECON W1105, or the equivalent) and one semester of calculus or ECON BC1007, or permission of the instructor.

Preferences and demand; production, cost, and supply; behavior of markets in partial equilibrium; resource allocation in general equilibrium; pricing of goods and services under alternative market structures; implications of individual decision-making for labor supply; income distribution, welfare, and public policy. Emphasis on problem solving.

#### Fall 2019: ECON BC3035

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Section/Call Number</th>
<th>Times/Location</th>
<th>Instructor</th>
<th>Points</th>
<th>Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 3035</td>
<td>001/07813</td>
<td>Th 12:10pm - 1:00pm Room TBA</td>
<td>Elizabeth Ananat, John Park</td>
<td>4</td>
<td>34/50</td>
</tr>
<tr>
<td>ECON 3035</td>
<td>001/07813</td>
<td>M W 2:40pm - 3:55pm LI03 Milstein Center</td>
<td>Elizabeth Ananat, John Park</td>
<td>4</td>
<td>34/50</td>
</tr>
<tr>
<td>ECON 3035</td>
<td>002/07822</td>
<td>T Th 4:10pm - 5:25pm LI03 Diana Center</td>
<td>Lalith Munasinghe, John Park</td>
<td>4</td>
<td>19/50</td>
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#### Spring 2020: ECON BC3035

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<tr>
<th>Course Number</th>
<th>Section/Call Number</th>
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<th>Instructor</th>
<th>Points</th>
<th>Enrollment</th>
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<tbody>
<tr>
<td>ECON 3035</td>
<td>001/000168</td>
<td>T Th 4:10pm - 5:25pm LI04 Diana Center</td>
<td>Lalith Munasinghe</td>
<td>4</td>
<td>33/60</td>
</tr>
</tbody>
</table>

### ECON BC3041 Theoretical Foundations of Political Economy. 3 points.

Prerequisites: An introductory course in economics or permission of the instructor.

Intellectual origins of the main schools of thought in political economy. Study of the founding texts in classical political economy, Marxian economics, neoclassicism, and Keynesianism.

#### Fall 2019: ECON BC3041

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Section/Call Number</th>
<th>Times/Location</th>
<th>Instructor</th>
<th>Points</th>
<th>Enrollment</th>
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<td>001/07814</td>
<td>T Th 1:10pm - 2:25pm LI03 Diana Center</td>
<td>Andre Burgstaller</td>
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<tr>
<td>ECON 3041</td>
<td>002/07823</td>
<td>M W 2:40pm - 3:55pm LI03 Diana Center</td>
<td>David Weiman</td>
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#### Spring 2020: ECON BC3041

<table>
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<tr>
<th>Course Number</th>
<th>Section/Call Number</th>
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<th>Instructor</th>
<th>Points</th>
<th>Enrollment</th>
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<tbody>
<tr>
<td>ECON 3041</td>
<td>001/000170</td>
<td>T Th 1:10pm - 2:25pm 323 Milbank Hall</td>
<td>Andre Burgstaller</td>
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<td>31</td>
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<tr>
<td>ECON 3041</td>
<td>002/000171</td>
<td>T Th 10:10am - 11:25am LI03 Diana Center</td>
<td>Belinda Archibong</td>
<td>3</td>
<td>37/50</td>
</tr>
</tbody>
</table>

### ECON BC3061 Senior Thesis I. 4 points.
Prerequisites: Permission of the instructor and completion of all courses (except for the senior requirement) required for the economics track, political economy track, or economics and mathematics majors. Exceptions to these prerequisites may be granted by the chair of the department only.

Tutorials and conferences on the research for and writing of the senior thesis. This is the 1st semester of a two-semester course sequence.

#### Fall 2019: ECON BC3061

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Section/Call Number</th>
<th>Times/Location</th>
<th>Instructor</th>
<th>Points</th>
<th>Enrollment</th>
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</thead>
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<tr>
<td>ECON 3061</td>
<td>001/07794</td>
<td>W 2:10pm - 4:00pm LI016 Milstein Center</td>
<td>Randall</td>
<td>4</td>
<td>6/10</td>
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<tr>
<td>ECON 3061</td>
<td>002/07795</td>
<td>T 2:10pm - 4:00pm Room TBA</td>
<td>Sharon Harrison</td>
<td>4</td>
<td>6/10</td>
</tr>
</tbody>
</table>

#### ECON BC3062 Senior Thesis II. 4 points.
Prerequisites: Permission of the instructor and completion of all courses (except for the senior requirement) required for the economics track, political economy track, or economics and mathematics majors. Exceptions to these prerequisites may be granted by the chair of the department only.

Tutorials and conferences on the research for and writing of the senior thesis. This is the 2nd semester of a two-semester course sequence.

#### Fall 2019: ECON BC3062

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Section/Call Number</th>
<th>Times/Location</th>
<th>Instructor</th>
<th>Points</th>
<th>Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 3062</td>
<td>001/00107</td>
<td>W 2:10pm - 4:00pm LI016 Milstein Center</td>
<td>Randall Reback</td>
<td>4</td>
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#### Spring 2020: ECON BC3062

<table>
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<tr>
<th>Course Number</th>
<th>Section/Call Number</th>
<th>Times/Location</th>
<th>Instructor</th>
<th>Points</th>
<th>Enrollment</th>
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<tbody>
<tr>
<td>ECON 3062</td>
<td>002/00173</td>
<td>M 2:10pm - 4:00pm Room TBA</td>
<td>Sharon Harrison</td>
<td>4</td>
<td>5/10</td>
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</table>

### ECON BC3063 Senior Seminar. 4 points.
Prerequisites: Permission of the instructor and the completion of all courses (except for the senior requirement) required for the economics track, political economy track, or economics and mathematics majors. Exceptions to these prerequisites may be granted by the chair of the department only. Seminar sections are limited to 15 students.

A topic in economic theory or policy of the instructor’s choice. See department for current topics and for senior requirement preference forms.

#### Fall 2019: ECON BC3063

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Section/Call Number</th>
<th>Times/Location</th>
<th>Instructor</th>
<th>Points</th>
<th>Enrollment</th>
</tr>
</thead>
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<tr>
<td>ECON 3063</td>
<td>001/07803</td>
<td>M 2:10pm - 4:00pm 502 Diana Center</td>
<td>Anja Tolonen</td>
<td>4</td>
<td>17/16</td>
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<tr>
<td>ECON 3063</td>
<td>002/07804</td>
<td>T 2:10pm - 4:00pm B85 Altshul Hall</td>
<td>Belinda Archibong</td>
<td>4</td>
<td>13/16</td>
</tr>
<tr>
<td>ECON 3063</td>
<td>003/07829</td>
<td>M 12:00pm - 1:50pm LI018 Milstein Center</td>
<td>Martina Jassova</td>
<td>4</td>
<td>12/16</td>
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</table>

#### Spring 2020: ECON BC3063

<table>
<thead>
<tr>
<th>Course Number</th>
<th>Section/Call Number</th>
<th>Times/Location</th>
<th>Instructor</th>
<th>Points</th>
<th>Enrollment</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECON 3063</td>
<td>001/00175</td>
<td>M 12:10pm - 2:00pm 404 Barnard Hall</td>
<td>Elizabeth Ananat</td>
<td>4</td>
<td>13/18</td>
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<tr>
<td>ECON 3063</td>
<td>002/00176</td>
<td>T 2:10pm - 4:00pm 117 Barnard Hall</td>
<td>Lalith Munasinghe</td>
<td>4</td>
<td>8/17</td>
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</tbody>
</table>
### Mathematics

**MATH UN1101 Calculus I. 3 points.**

Prerequisites: (see Courses for First-Year Students). Functions, limits, derivatives, introduction to integrals, or an understanding of pre-calculus will be assumed.

The Help Room in 333 Milbank Hall (Barnard College) is open during the day, Monday through Friday, to students seeking individual help from the teaching assistants. (SC)

- **Fall 2019:**
  - **Course Number:** MATH 1101
  - **Section/Call Number:** 001/29218
  - **Times/Location:** M W 10:10am - 11:25am, 203 Mathematics Building
  - **Instructor:** Daniele Alessandrini
  - **Points:** 3
  - **Enrollment:** 41/64

- **Course Number:** MATH 1101
  - **Section/Call Number:** 002/50794
  - **Times/Location:** M W 2:40pm - 3:55pm, 203 Mathematics Building
  - **Instructor:** Daniele Alessandrini
  - **Points:** 3
  - **Enrollment:** 46/100

- **Course Number:** MATH 1101
  - **Section/Call Number:** 003/50795
  - **Times/Location:** M W 4:10pm - 5:25pm, 207 Mathematics Building
  - **Instructor:** Akash Sengupta
  - **Points:** 3
  - **Enrollment:** 63/100

- **Course Number:** MATH 1101
  - **Section/Call Number:** 004/50796
  - **Times/Location:** M W 6:10pm - 7:25pm, 312 Mathematics Building
  - **Instructor:** Chao Li
  - **Points:** 3
  - **Enrollment:** 110/116

- **Course Number:** MATH 1101
  - **Section/Call Number:** 005/50797
  - **Times/Location:** T Th 8:40am - 9:55am, 312 Mathematics Building
  - **Instructor:** Zachary Sylvan
  - **Points:** 3
  - **Enrollment:** 54/100

- **Course Number:** MATH 1101
  - **Section/Call Number:** 006/50798
  - **Times/Location:** T Th 10:10am - 11:25am, 312 Mathematics Building
  - **Instructor:** Michael Woodbury
  - **Points:** 3
  - **Enrollment:** 69/100

- **Course Number:** MATH 1101
  - **Section/Call Number:** 007/50799
  - **Times/Location:** T Th 11:40am - 12:55pm, 203 Mathematics Building
  - **Instructor:** Michael Woodbury
  - **Points:** 3
  - **Enrollment:** 63/100

- **Course Number:** MATH 1101
  - **Section/Call Number:** 008/50800
  - **Times/Location:** T Th 2:40pm - 3:55pm, 207 Mathematics Building
  - **Instructor:** Alisa Knizel
  - **Points:** 3
  - **Enrollment:** 79/100

- **Course Number:** MATH 1101
  - **Section/Call Number:** 009/50801
  - **Times/Location:** M W 11:10pm - 12:25pm, 407 Mathematics Building
  - **Instructor:** Olegs Kravets
  - **Points:** 3
  - **Enrollment:** 23/30

- **Course Number:** MATH 1101
  - **Section/Call Number:** 010/50802
  - **Times/Location:** T Th 11:10pm - 12:25pm, 407 Mathematics Building
  - **Instructor:** Zhi Li
  - **Points:** 3
  - **Enrollment:** 31/31

- **Spring 2020:**
  - **Course Number:** MATH 1101
  - **Section/Call Number:** 001/13846
  - **Times/Location:** M W 11:40am - 12:55pm, 407 Mathematics Building
  - **Instructor:** Cailan Li
  - **Points:** 3
  - **Enrollment:** 21/30

- **Course Number:** MATH 1101
  - **Section/Call Number:** 002/12024
  - **Times/Location:** M W 2:40pm - 3:55pm, 203 Mathematics Building
  - **Instructor:** Akash Sengupta
  - **Points:** 3
  - **Enrollment:** 72/110

- **Course Number:** MATH 1101
  - **Section/Call Number:** 003/12025
  - **Times/Location:** M W 6:10pm - 7:25pm, 407 Mathematics Building
  - **Instructor:** Gerhardt Hinkle
  - **Points:** 3
  - **Enrollment:** 23/30

- **Course Number:** MATH 1101
  - **Section/Call Number:** 004/12026
  - **Times/Location:** T Th 10:10am - 11:25am, 203 Mathematics Building
  - **Instructor:** Alexandra Florea
  - **Points:** 3
  - **Enrollment:** 86/110

- **Course Number:** MATH 1101
  - **Section/Call Number:** 005/12027
  - **Times/Location:** T Th 11:40am - 12:55pm, 203 Mathematics Building
  - **Instructor:** William Chen
  - **Points:** 3
  - **Enrollment:** 45/110

**MATH UN1102 Calculus II. 3 points.**

Prerequisites: MATH UN1101 or the equivalent. Methods of integration, applications of the integral, Taylor's theorem, infinite series. (SC)

- **Fall 2019:**
  - **Course Number:** MATH 1102
  - **Section/Call Number:** 001/29219
  - **Times/Location:** M W 1:10pm - 2:25pm, 417 Mathematics Building
  - **Instructor:** Yi Sun
  - **Points:** 3
  - **Enrollment:** 55/64

- **Course Number:** MATH 1102
  - **Section/Call Number:** 002/50788
  - **Times/Location:** T Th 10:10am - 11:25am, 417 Mathematics Building
  - **Instructor:** Peter Woit
  - **Points:** 3
  - **Enrollment:** 18/64

- **Course Number:** MATH 1102
  - **Section/Call Number:** 003/50789
  - **Times/Location:** T Th 11:40am - 12:55pm, 407 Mathematics Building
  - **Instructor:** Nathan Dowlin
  - **Points:** 3
  - **Enrollment:** 51/100

- **Course Number:** MATH 1102
  - **Section/Call Number:** 004/50790
  - **Times/Location:** T Th 11:40am - 12:55pm, 407 Mathematics Building
  - **Instructor:** Xuan Wu
  - **Points:** 3
  - **Enrollment:** 18/30

- **Course Number:** MATH 1102
  - **Section/Call Number:** 005/50791
  - **Times/Location:** T Th 11:40am - 12:55pm, 407 Mathematics Building
  - **Instructor:** Donghan Kim
  - **Points:** 3
  - **Enrollment:** 33/36

- **Spring 2020:**
  - **Course Number:** MATH 1102
  - **Section/Call Number:** 001/12029
  - **Times/Location:** M W 1:10pm - 2:25pm, 207 Mathematics Building
  - **Instructor:** Yi Sun
  - **Points:** 3
  - **Enrollment:** 43/125

- **Course Number:** MATH 1102
  - **Section/Call Number:** 002/12030
  - **Times/Location:** M W 2:40pm - 3:55pm, 407 Mathematics Building
  - **Instructor:** Semen Rezchikov
  - **Points:** 3
  - **Enrollment:** 33/35

- **Course Number:** MATH 1102
  - **Section/Call Number:** 003/12031
  - **Times/Location:** T Th 11:40am - 12:55pm, 407 Mathematics Building
  - **Instructor:** Michael Woodbury
  - **Points:** 3
  - **Enrollment:** 51/125

- **Course Number:** MATH 1102
  - **Section/Call Number:** 004/12032
  - **Times/Location:** T Th 6:10pm - 7:25pm, 407 Mathematics Building
  - **Instructor:** Iakov Kononov
  - **Points:** 3
  - **Enrollment:** 20/30
MATH UN1201 Calculus III. 3 points.
Prerequisites: MATH UN1101 or the equivalent
Vectors in dimensions 2 and 3, complex numbers and the complex
exponential function with applications to differential equations, Cramer’s
rule, vector-valued functions of one variable, scalar-valued functions of
several variables, partial derivatives, gradients, surfaces, optimization, the
method of Lagrange multipliers. (SC)

MATH UN2030 Ordinary Differential Equations. 3 points.
Prerequisites: MATH UN1102 and MATH UN1201 or the equivalent.
Special differential equations of order one. Linear differential equations
with constant and variable coefficients. Systems of such equations.
Transform and series solution techniques. Emphasis on applications. (SC)

Fall 2019: MATH UN1201
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
--- | --- | --- | --- | --- | ---
MATH 1201 | 001/50765 | M W 8:40am - 9:55am 312 Mathematics Building | Mohammed Abouzaid | 3 | 60/100
MATH 1201 | 002/50766 | M W 10:10am - 11:25am 312 Mathematics Building | Konstantin Alekshkin | 3 | 37/100
MATH 1201 | 003/50767 | M W 11:40am - 12:55pm 312 Mathematics Building | Konstantin Alekshkin | 3 | 57/100
MATH 1201 | 004/50768 | T Th 11:40am - 12:55pm 520 Mathematics Building | Inbar Klang | 3 | 22/49
MATH 1201 | 005/50769 | T Th 1:10pm - 2:25pm 203 Mathematics Building | Stephen Miller | 3 | 84/100
MATH 1201 | 006/50770 | T Th 2:40pm - 3:55pm 312 Mathematics Building | Stephen Miller | 3 | 85/100
MATH 1201 | 007/50771 | T Th 4:10pm - 5:25pm 207 Mathematics Building | Inbar Klang | 3 | 109/110
MATH 1201 | 008/50772 | T Th 6:10pm - 7:25pm 323 Milbank Hall | Inbar Klang | 3 | 29/100

Spring 2020: MATH UN1201
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
--- | --- | --- | --- | --- | ---
MATH 1201 | 001/12037 | M W 10:10am - 11:25am 207 Mathematics Building | Carolyn Abbott | 3 | 45/125
MATH 1201 | 002/12039 | M W 11:40am - 12:55pm 602 Hamilton Hall | Konstantin Alekshkin | 3 | 21/125
MATH 1201 | 003/12040 | M W 2:40pm - 3:55pm 312 Mathematics Building | Igor Krichever | 3 | 108/120
MATH 1201 | 004/12041 | T Th 1:10pm - 2:25pm 312 Mathematics Building | Stephen Miller | 3 | 88/116
MATH 1201 | 005/12042 | T Th 6:10pm - 7:25pm 207 Mathematics Building | Inbar Klang | 3 | 130/130

Fall 2019: MATH UN2030
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
--- | --- | --- | --- | --- | ---
MATH 2030 | 001/50778 | M W 11:40am - 12:25pm 312 Mathematics Building | Florian Johne | 3 | 57/100
MATH 2030 | 002/50779 | M W 2:40pm - 3:25pm 312 Mathematics Building | Florian Johne | 3 | 36/100

Spring 2020: MATH UN2030
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
--- | --- | --- | --- | --- | ---
MATH 2030 | 001/12103 | T Th 4:10pm - 5:25pm 312 Mathematics Building | Kyler Siegel | 3 | 98/116
MATH 2030 | 002/12104 | T Th 6:10pm - 7:25pm 312 Mathematics Building | Kyler Siegel | 3 | 38/116

MATH UN2010 Linear Algebra. 3 points.
Prerequisites: MATH UN1201 or the equivalent.
Matrices, vector spaces, linear transformations, eigenvalues and
eigenvectors, canonical forms, applications. (SC)
MATH UN2500 Analysis and Optimization. 3 points.
Prerequisites: MATH UN1102 and MATH UN1201 or the equivalent and MATH UN2010.

Fall 2019: MATH UN2500
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
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MATH 2500 | 001/50776 | M W 10:10am - 11:25am 417 Mathematics Building | Shotaro Makisumi | 3 | 58/85
MATH 2500 | 002/50777 | M W 11:40am - 12:55pm 417 Mathematics Building | Shotaro Makisumi | 3 | 44/64

Spring 2020: MATH UN2500
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
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MATH 2500 | 001/12105 | M W 11:10am - 12:25pm 312 Mathematics Building | Kanstantsin Matetski | 3 | 29/110
MATH 2500 | 002/12107 | M W 4:10pm - 5:25pm 207 Mathematics Building | Kanstantsin Matetski | 3 | 43/125

MATH UN3951 Undergraduate Seminars in Mathematics I. 3 points.
Prerequisites: Two years of calculus, at least one year of additional mathematics courses, and the director of undergraduate studies’ permission.
The subject matter is announced at the start of registration and is different in each section. Each student prepares talks to be given to the seminar, under the supervision of a faculty member or senior teaching fellow.

Fall 2019: MATH UN3951
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
--- | --- | --- | --- | --- | ---
MATH 3951 | 001/08781 | T Th 2:40pm - 3:55pm 501 Schermerhorn Hall | Ronald Neath | 3 | 125/150
STAT 4001 | 001/13294 | T Th 11:40am - 12:55pm 428 Pupin Laboratories | David Rios | 3 | 38/100

Spring 2020: MATH UN3951
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
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STAT 4001 | 001/13714 | T Th 1:10pm - 2:25pm 203 Mathematics Building | Larry Wright | 3 | 55/125

MATH GU4061 Introduction To Modern Analysis I. 3 points.
Prerequisites: MATH UN1202 or the equivalent, and MATH UN2010. The second term of this course may not be taken without the first.

Fall 2019: MATH GU4061
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
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MATH 4061 | 001/50775 | T Th 2:40pm - 3:55pm 203 Mathematics Building | Evgeni Dimitrov | 3 | 44/100
MATH 4061 | 002/50774 | T Th 4:10pm - 5:25pm 520 Mathematics Building | Evgeni Dimitrov | 3 | 21/49

Spring 2020: MATH GU4061
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
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STAT 4001 | 001/13715 | M W 6:10pm - 7:25pm 614 Schermerhorn Hall | Daniel Rabinowitz | 3 | 88/120

Statistics
STAT GU4001 Introduction to Probability and Statistics. 3 points.
Prerequisites: Calculus through multiple integration and infinite sums. A calculus-based tour of the fundamentals of probability theory and statistical inference. Probability models, random variables, useful distributions, conditioning, expectations, law of large numbers, central limit theorem, point and confidence interval estimation, hypothesis tests, linear regression. This course replaces SIEO 4150.