ECONOMICS & MATHEMATICS

1019 Milstein Learning Center
212-854-3454
Department Administrator: Regina Roberts

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
The Economics & Mathematics track requires a minimum of 15 courses (48 minimum credits).

Economics (8 courses)
- ECON BC1003 INTRO TO ECONOMIC REASONING 3
- ECON BC3018 ECONOMETRICS 4
- ECON BC3033 INTERMEDIATE MACROECONOMIC THEORY 4
- ECON BC3035 INTERMEDIATE MICROECONOMIC THEORY 4
- ECON BC3041 THEORETICAL FOUNDATIONS-POLIT ECON 3.00

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)
- MATH UN1102 CALCULUS II and CALCULUS III 6
- MATH UN2010 LINEAR ALGEBRA 3
- MATH UN2500 ANALYSIS AND OPTIMIZATION 3
- SIEO W3600 INTRO PROBABILITY/STATISTICS (or STAT GU4001) 4

Two electives at or above the 2000 level

Cross-Listed Courses
Economics (Barnard)

ECON BC3018 ECONOMETRICS. 4.00 points.
Prerequisites: ECON BC3033 or ECON BC3035, and ECON BC2411 or STAT W1111 or STAT W1211, or permission of the instructor.
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

Spring 2024: ECON BC3018

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<td>T Th 11:40am - 12:55pm</td>
<td>Anja Tolonen</td>
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Fall 2024: ECON BC3018

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ECON BC3033 INTERMEDIATE MACROECONOMIC THEORY. 4.00 points.
(Description for summer and semester course) This course introduces macroeconomic theory for the analysis of aggregate variables such as income, employment, prices, and the interest rate. The first part of the course is devoted to studying the determination of the aggregate demand in the goods markets and the equilibrium of monetary markets, using an IS-LM model extended with elements of the banking sector and the open-economy framework. Next, the supply-side of the economy is examined with special attention to the labor market, wage setting and price setting behavior. The Phillips Curve (PC) introduces the tradeoffs between inflation and unemployment, and the role of expectations for inflation dynamics. The integrated IS-LM-PC model is then used to evaluate macroeconomic policies that aim at stabilizing the economy with output produced at its potential level and the inflation rate at the central bank target. The recent episode of high inflation is simulated with a proper numerical calibration of the IS-LM-PC model.

Spring 2024: ECON BC3033

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Fall 2024: ECON BC3033

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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.
ECON BC3035 INTERMEDIATE MICROECONOMIC THEORY. 4.00 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.

Spring 2024: ECON BC3035
Course Number  Section/Call Number  Times/Location  Instructor  Points  Enrollment
ECON 3035  001/00740  T Th 1:10pm - 2:25pm  Lalith Munasinghe  4.00  37/50
Fall 2024: ECON BC3035
Course Number  Section/Call Number  Times/Location  Instructor  Points  Enrollment
ECON 3035  001/00481  M W 11:40am - 12:55pm  Elizabeth Ananat  4.00  45/45
ECON 3035  002/00482  T Th 1:10pm - 2:25pm  Lalith Munasinghe  4.00  41/60

ECON BC3041 THEORETICAL FOUNDATIONS-POLIT ECON. 3.00 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, Marxist economics, neoclassicism, and Keynesianism.

Spring 2024: ECON BC3041
Course Number  Section/Call Number  Times/Location  Instructor  Points  Enrollment
ECON 3041  001/00742  M W 2:40pm - 3:55pm  David Weiman  3.00  50/45
Fall 2024: ECON BC3041
Course Number  Section/Call Number  Times/Location  Instructor  Points  Enrollment
ECON 3041  001/00048  T Th 8:40am - 9:55am  504 Diana Center  3.00  50/50
ECON 3041  002/00049  T Th 10:10am - 11:25am  328 Milbank Hall  3.00  50/50

ECON BC3062 SENIOR THESIS II. 4.00 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.

Spring 2024: ECON BC3062
Course Number  Section/Call Number  Times/Location  Instructor  Points  Enrollment
ECON 3062  001/00745  T Th 1:10pm - 2:25pm  Belinda Archibong  4.00  7/8
ECON 3062  002/00746  M 11:00am - 12:50pm  Martina Jaso  4.00  8/8
ECON 3062  003/00747  T 10:10am - 12:00pm  Belinda Archibong  4.00  7/8

ECON BC3063 SENIOR SEMINAR. 4.00 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 instructors choice. See department for current topics and for senior requirement preference forms.

Spring 2024: ECON BC3063
Course Number  Section/Call Number  Times/Location  Instructor  Points  Enrollment
ECON 3063  001/00748  Th 4:10pm - 6:00pm  Lalith Munasinghe  4.00  20/20
ECON 3063  003/00749  M 2:10pm - 4:00pm  Martina Jaso  4.00  18/16
Fall 2024: ECON BC3063
Course Number  Section/Call Number  Times/Location  Instructor  Points  Enrollment
ECON 3063  001/00492  Th 11:00am - 12:50pm  306 Milbank Hall  4.00  15/16
ECON 3063  002/00493  T 2:10pm - 4:00pm  912 Milstein Center  4.00  13/16
ECON 3063  003/00649  M 2:10pm - 4:00pm  405 Barnard Hall  4.00  12/16

ECON BC3061 SENIOR THESIS I. 4.00 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 2024: ECON BC3061
Course Number  Section/Call Number  Times/Location  Instructor  Points  Enrollment
ECON 3061  001/00484  T 10:10am - 12:00pm  Elizabeth Ananat  4.00  6/7
ECON 3061  002/00485  W 10:10am - 12:00pm  Belinda Archibong  4.00  5/7
ECON 3061  003/00486  Th 2:10pm - 4:00pm  Sharon Harrison  4.00  5/7
Mathematics

MATH UN1101 CALCULUS I. 3.00 points.
Prerequisites: (see Courses for First-Year Students). Functions, limits, derivatives, introduction to integrals, or an understanding of pre-calculus will be assumed. (SC)

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<td>MATH 1101</td>
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<td>Amal Mattoo</td>
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<td>Mrudul Thatte</td>
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<td>Jorge Pinedo</td>
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Spring 2024: MATH UN1102

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<td>Fan Zhou</td>
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<td>Davis Lazowski</td>
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Fall 2024: MATH UN1102

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Lagrange multipliers. Partial derivatives, gradients, surfaces, optimization, the method of Lagrange multipliers. (SC)

Prerequisites: MATH UN1101 or the equivalent. Vectors in dimensions 2 and 3, complex numbers and the complex exponential function with applications to differential equations, vectors, vector-valued functions of one variable, scalar-valued functions of several variables, partial derivatives, gradients, surfaces, optimization, the method of Lagrange multipliers. (SC)

MATH 1201 CALCULUS III. 3.00 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, vectors, vector-valued functions of one variable, scalar-valued functions of several variables, partial derivatives, gradients, surfaces, optimization, the method of Lagrange multipliers. (SC)

MATH 2010 LINEAR ALGEBRA. 3.00 points.
Matrices, vector spaces, linear transformations, eigenvalues and eigenvectors, canonical forms, applications. (SC)

MATH 2030 ORDINARY DIFFERENTIAL EQUATIONS. 3.00 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.

Spring 2024: MATH UN2010
Course Number  | Section/Call Number | Times/Location | Instructor | Points | Enrollment
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MATH 2010 | 001/12334 | M W 10:10am - 11:25am | Amadou Bah | 3.00 | 84/110
| 002/12335 | M W 11:40am - 12:55pm | Amadou Bah | 3.00 | 95/110
| 003/12336 | T Th 11:40am - 12:55pm | Rostislav Akhmechet | 3.00 | 105/110
| 004/12337 | T Th 1:10pm - 2:25pm | Rostislav Akhmechet | 3.00 | 94/110
| 005/12339 | T Th 6:10pm - 7:25pm | Elliott Stein | 3.00 | 41/64

Fall 2024: MATH UN2030
Course Number  | Section/Call Number | Times/Location | Instructor | Points | Enrollment
--- | --- | --- | --- | --- | ---
MATH 2030 | 001/11853 | M W 8:40am - 9:55am | Deeparaj Bhat | 3.00 | 8/100
| 002/11854 | M W 11:40am - 12:55pm | Brian Harvie | 3.00 | 44/100
| 003/11855 | M W 2:40pm - 3:55pm | Brian Harvie | 3.00 | 31/100
| 004/11856 | T Th 11:40am - 12:55pm | Gyujin Oh | 3.00 | 100/100
| 005/11857 | T Th 1:10pm - 2:25pm | Gyujin Oh | 3.00 | 100/100
| 006/11858 | T Th 2:40pm - 3:55pm | Yoonjoo Kim | 3.00 | 21/100
| 007/11859 | T Th 4:10pm - 5:25pm | Yoonjoo Kim | 3.00 | 17/100
| 008/11862 | T Th 6:10pm - 7:25pm | 417 Mathematics Building | 3.00 | 47/100

Spring 2024: MATH UN3020
Course Number  | Section/Call Number | Times/Location | Instructor | Points | Enrollment
--- | --- | --- | --- | --- | ---
MATH 3020 | 001/12341 | M W 10:10am - 11:25am | Ovidiu Savin | 3.00 | 93/100
| 002/12346 | T Th 11:40am - 12:55pm | Yin Li | 3.00 | 53/100

Fall 2024: MATH UN3020
Course Number  | Section/Call Number | Times/Location | Instructor | Points | Enrollment
--- | --- | --- | --- | --- | ---
MATH 3020 | 001/11872 | M W 1:10pm - 2:25pm | Panagiota Daskalopoulos | 3.00 | 100/100
| 002/11873 | T Th 10:10am - 11:25am | Jeanne Boursier | 3.00 | 34/100
| 003/11874 | T Th 1:10pm - 2:25pm | Jeanne Boursier | 3.00 | 48/49

Points 3.00
MATH UN2500 ANALYSIS AND OPTIMIZATION. 3.00 points.
Prerequisites: MATH UN1102 and MATH UN1201 or the equivalent and MATH UN2010.
Prerequisites: MATH UN1102 and MATH UN1201 or the equivalent and MATH UN2010. Mathematical methods for economics. Quadratic forms, Hessian, implicit functions. Convex sets, convex functions. Optimization, constrained optimization, Kuhn-Tucker conditions. Elements of the calculus of variations and optimal control. (SC)

Spring 2024: MATH UN2500
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
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MATH 2500 | 001/12347 | T Th 11:40am - 12:55pm 207 Mathematics Building | Wenjian Liu | 3.00 | 86/100

Fall 2024: MATH UN2500
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
--- | --- | --- | --- | --- | ---
MATH 2500 | 001/11875 | M W 4:10pm - 5:25pm Room TBA | Qiao He | 3.00 | 64/64
MATH 2500 | 002/11876 | T Th 10:10am - 11:25am Room TBA | Roger Van Peski | 3.00 | 68/75

MATH UN3951 UNDERGRADUATE SEMINARS I. 3.00 points.
Prerequisites: Two years of calculus, at least one year of additional mathematics courses, and the director of undergraduate studies’ permission.
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 2024: MATH UN3951
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
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MATH 3951 | 001/000078 | | Cristian Iovanov | 3.00 | 48/64

MATH GU4061 INTRO MODERN ANALYSIS I. 3.00 points.
Prerequisites: MATH UN1202 or the equivalent, and MATH UN2010. The second term of this course may not be taken without the first.
Prerequisites: MATH UN1202 or the equivalent, and MATH UN2010. The second term of this course may not be taken without the first. Real numbers, metric spaces, elements of general topology, sequences and series, continuity, differentiation, integration, uniform convergence, Ascoli–Arzelà theorem, Stone-Weierstrass theorem
Spring 2024: MATH GU4061
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
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MATH 4061 | 001/12541 | M W 1:10pm - 2:25pm 203 Mathematics Building | Ivan Corwin | 3.00 | 55/110

Fall 2024: MATH GU4061
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
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MATH 4061 | 001/11858 | T Th 11:40am - 12:55pm Room TBA | Sven Hirsch | 3.00 | 50/64
MATH 4061 | 002/11859 | T Th 2:40pm - 3:55pm Room TBA | Sven Hirsch | 3.00 | 52/64

Statistics
SIEO W3600 INTRO PROBABILITY/STATISTICS. 4.00 points.
STAT GU4001 INTRODUCTION TO PROBABILITY AND STATISTICS. 3.00 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
Spring 2024: STAT GU4001
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
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STAT 4001 | 001/13625 | M 6:10pm - 8:40pm 142 Uris Hall | Pratyay Datta | 3.00 | 76/100
STAT 4001 | 002/13626 | M W 1:10pm - 2:25pm 602 Hamilton Hall | Hammou El Barmi | 3.00 | 68/86

Fall 2024: STAT GU4001
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
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STAT 4001 | 001/15171 | M W 6:10pm - 7:25pm Room TBA | Arian Maleki | 3.00 | 98/200

Statistics
SIEO W3600 INTRO PROBABILITY/STATISTICS. 4.00 points.
STAT GU4001 INTRODUCTION TO PROBABILITY AND STATISTICS. 3.00 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
Spring 2024: STAT GU4001
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
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STAT 4001 | 001/13625 | M 6:10pm - 8:40pm 142 Uris Hall | Pratyay Datta | 3.00 | 76/100
STAT 4001 | 002/13626 | M W 1:10pm - 2:25pm 602 Hamilton Hall | Hammou El Barmi | 3.00 | 68/86

Fall 2024: STAT GU4001
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
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STAT 4001 | 001/15171 | M W 6:10pm - 7:25pm Room TBA | Arian Maleki | 3.00 | 98/200