

# ECONOMICS

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

## Mission

The primary aim of the Barnard Economics Department is to provide undergraduate liberal arts students with a rigorous, broad, and critical program in theoretical and empirical economics. To achieve this aim our curriculum

- Provides a thorough grounding in neoclassical economic theory, modern statistical method, and their applications in the traditional fields of economic science;
- Embeds that training in a broader conception of economic science and method with special emphasis on philosophical, historical, and institutional approaches that link economics with other social sciences and humanistic disciplines;
- Compares and contrasts alternative methodological approaches and types of evidence as ways of analyzing economic phenomena, evaluating policy debates, and assessing the broader social and political consequences of economic doctrines.

## Student Learning Outcomes for the Economics Major, Economics and Political Economy Tracks

Having successfully completed the major in Economics, the student will be able to attain the following outcomes:

1. Show fluency in the basic concepts, models and tools of microeconomic and macroeconomic theory;
2. Think critically about economic phenomena and economic debates by using multiple kinds of texts, evidence and conceptual approaches;
3. Apply economic reasoning to understand the causal determinants of economic events, empirical regularities, and policy proposals;
4. Apply basic skills of empirical reasoning to economic problems;
5. Demonstrate knowledge of the history of economic thought, including important doctrines, their historical context, transformation over time, and influence on contemporary economic theory and ideas;
6. Demonstrate understanding of institutions, organizations and markets in their roles of coordinating economic activity;
7. Demonstrate knowledge of the historical origins of capitalism, modern economic growth and development, patterns of inequality, and globalization;
8. Articulate a well-defined research question and conduct independent research using economic reasoning and evidence;
9. Communicate economic ideas effectively in written or oral form.

Specific to the Economics Track

1. Understand and apply statistical techniques to make inferences about economic hypotheses.

Specific to the Political Economy Track

1. Use concepts or methods from at least one disciplinary approach other than economics to analyze an economic, political or other social problem.

Barnard will allow a total of 3 points AP credit in Economics only if the following conditions are satisfied: an AP score of 4 or 5 in either Macro or Micro (or both), or an International Baccalaureate (IB) score of 5 or higher. However, students who receive AP credit for economics and who go on to pursue any of the economics department majors (or an economics minor) must still take ECON BC1003 Introduction to Economic Reasoning or its equivalent. For Statistics, Barnard will allow 3 points credit with a score of 5 on the Statistics AP exam. Economics track majors, however, will not be exempt from the statistics requirement ECON BC2411 Statistics for Economics or the equivalent, even if they receive 3 points AP credit for Statistics.

**Chair:** Rajiv Sethi (Ann Whitney Olin Professor)

**Professors:** André Burgstaller, Alan Dye, Daniel Hamermesh (Distinguished Scholar), Sharon Harrison, Lalith Munasinghe, David Weiman (Alena Wels Hirschorn '58 Professor)

**Associate Professors:** Elizabeth Ananat, Jose Cao-Alvira (Adjunct), Randall Reback, Ashley Timmer (Adjunct)

**Assistant Professors:** Belinda Archibong, Martina Jasova, Sonia Pereira (Adjunct), Rena Rosenberg (Adjunct), Anja Tolonen, Homa Zarghamee

Other officers of the University offering courses listed below:

**Professors:** Jushan Bai, Yeon-Koo Che, Pierre-Andre Chiappori, Graciela Chichilnisky, Donald Davis, Prajit Dutta, Harrison Hong, Serena Ng, Brendan O'Flaherty, Xavier Sala-i-Martin, Stephanie Schmitt-Grohe, Martin Uribe, Michael Woodford

**Associate Professor:** Lena Edlund

**Assistant Professors:** Mark Dean, Matthieu Gomez, Reka Juhasz, Jack Willis

**Adjunct Professors:** Claudia Halback, Tim Goodspeed, Edward Lincoln, Caterina Musatti, Waseem Noor, Ingmar Nyman

**Lecturers:** Irasema Alonso, Tri Vi Dang, Susan Elmes, Seyhan Erden, Tamrat Gashaw, Sunil Gulati, Ronald Miller, Wouter Vergote

## Requirements for the Major

There are two tracks for the major in Economics equal in rigor, but different in scope and focus. The track in Economics emphasizes modern economic theory along with associated analytical and mathematical tools. The track in Political Economy emphasizes the roots of modern economics in the history of economic thought and the interconnections between social forces, political institutions, and economic power. Either track offers excellent preparation for graduate study in a variety of professional schools and professional careers in many areas, including business and public administration.

Prospective majors should discuss their programs with any member of the department no later than the second semester of their sophomore year. At the time of declaring the major, the student meets with the department chair and chooses a major adviser, who will advise her on the choice of program and courses. Students planning to major in Economics or Political Economy should complete both intermediate macro- and microeconomic theory by the beginning of their junior year.

Students who wish to complete a double or joint major that includes Economics should consult the chair of the department or the major adviser as early as possible. Students interested in pursuing a Ph.D. in economics should take more mathematics than required for the economics major or choose the Economics and Mathematics

interdisciplinary major. Any interested student should seek guidance from the Economics and/or Mathematics faculty on which mathematics courses to take.

All majors should file the "Major Requirements Declaration" form, available from the department office by the end of their sophomore year, or as soon as possible thereafter.

## Economics

The Economics track major requires twelve courses in economics, including:

ECON BC1003	Introduction to Economic Reasoning	3
ECON BC1007 or MATH UN1201	Mathematical Methods for Economics * Calculus III	4
ECON BC2411 or STAT UN1101 or STAT UN1201 or PSYC BC1101	Statistics for Economics Introduction to Statistics Calculus-Based Introduction to Statistics Statistics	4
ECON BC3018	Econometrics	4
ECON BC3033	Intermediate Macroeconomic Theory	4
ECON BC3035	Intermediate Microeconomic Theory	4
ECON BC3041	Theoretical Foundations of Political Economy	3

Three electives in economics, two of which must be upper-level (that is, they must have intermediate micro- or macroeconomic theory as a prerequisite).

One of the following two options:

ECON BC3061 - ECON BC3062	Senior Thesis I and Senior Thesis II
ECON BC3063	Senior Seminar (and an additional upper-level elective in economics)

\* Students will not receive credit for ECON BC1007 Mathematical Methods for Economics if they have already taken ECON BC3035 Intermediate Microeconomic Theory. Such students must instead complete the mathematics requirement by taking MATH UN1201 Calculus III (Calculus III).

## Political Economy

The Political Economy track major requires thirteen courses, including:

ECON BC1003	Introduction to Economic Reasoning	3
ECON BC1007 or MATH UN1101	Mathematical Methods for Economics Calculus I	4
ECON BC3033	Intermediate Macroeconomic Theory	4
ECON BC3035	Intermediate Microeconomic Theory	4
ECON BC3041	Theoretical Foundations of Political Economy	3
ECON BC2411 or STAT UN1101 or STAT UN1201 or PSYC BC1101	Statistics for Economics Introduction to Statistics Calculus-Based Introduction to Statistics Statistics	4

Three electives in economics, two of which must be upper-level electives (that is, they must have intermediate micro- or macroeconomic theory as a prerequisite)

Two interdisciplinary electives (see further conditions below)

And one of the following two options:

ECON BC3061 - ECON BC3062	Senior Thesis I and Senior Thesis II
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ECON BC3063

Senior Seminar (and an additional upper-level elective in economics)

## Interdisciplinary Electives

**[NOTE: Statistics is required for Political Economy track majors in the class of 2021 and later. It replaces one of the three interdisciplinary electives formerly required for the class of 2020 and earlier.]**

Linking interdisciplinary electives to economics electives: If a course is "linked," this means that it addresses subject matter that is related to the subject matter of the economics elective to which it is paired. There are many possible ways to link a course to an economics elective. A link (<https://economics.barnard.edu/interdisciplinary-thematic-focus-political-economy-track/>) to some suggestions from the department website is given below. Whether a course qualifies as a linked course must be approved by the student's major adviser.

## Related Areas of Study

### Departments

- Anthropology
- Asian and Middle Eastern Cultures
- Environmental Science
- History
- Philosophy
- Political Science
- Psychology
- Sociology
- Spanish and Latin American Cultures
- Women's Studies

### Regional or Interdisciplinary Programs

- Africana Studies
- American Studies
- Human Rights Studies
- Jewish Studies
- Science and Public Policy
- Urban Studies

## Suggestions for Linking Interdisciplinary Electives to Economics Electives (<http://economics.barnard.edu/majors/descriptions/political-economy-track/interdisciplinary-thematic-focus/>)

Follow this link (<https://economics.barnard.edu/interdisciplinary-thematic-focus-political-economy-track/>) for a list of suggestions for Interdisciplinary Electives that link to Economics Elective Courses. It is NOT an exhaustive list. You should feel free to propose alternative courses that form similar links. All linked courses must be approved by the student's major adviser.

### Mathematics Training for the Major

The department expects all majors to have a working knowledge of arithmetic, high school algebra, and the fundamentals of analytic geometry.

Majors in the economics track may complete the mathematics requirement by taking ECON BC1007 Mathematical Methods for Economics, or MATH UN1101 Calculus I and MATH UN1201 Calculus

III. Students who have received advanced placement credit or have placed out of Calculus I may take either Math Methods or Calculus III to complete the requirement. (Students with 5 on the Calculus BC test may begin with Calculus III.)

Majors in the political economy track may complete the mathematics requirement by taking ECON BC1007 Mathematical Methods for Economics or MATH UN1101 Calculus I. Students who have received advanced placement college credit for calculus have satisfied the mathematics requirement for the political economy track, however they must take an additional economics elective as a substitute for the AP credit so that the total number of courses taken for the major remains the same.

Students interested in pursuing a Ph.D. in economics should take more mathematics than required for the economics major or choose the Economics and Mathematics interdisciplinary major. Any interested student should seek guidance from the Economics and/or Mathematics faculty on which mathematics courses to take.

## Requirements for the Minor

The minor in economics consists of five courses, including ECON BC1003 Introduction to Economic Reasoning or equivalent, ECON BC3033 Intermediate Macroeconomic Theory or ECON BC3035 Intermediate Microeconomic Theory, and three electives, one of which must have an intermediate micro- or macroeconomic theory course as a prerequisite.

## Introductory Courses

The principles of economics; may be taken without previous study of economics.

### ECON BC1003 Introduction to Economic Reasoning. 3 points.

BC: Fulfillment of General Education Requirement: Social Analysis (SOC I), BC: Fulfillment of General Education Requirement: Social Analysis (SOC II).

Covers basic elements of microeconomic and macroeconomic reasoning at an introductory level. Topics include Individual Constraints and Preferences, Production by Firms, Market Transactions, Competition, The Distribution of Income, Technological Progress and Growth, Unemployment and Inflation, the Role of Government in the Economy.

*Note: Students cannot get credit for ECON BC1003 if they have taken the Columbia introductory course ECON W1105 Principles of Economics.*

#### Fall 2019: ECON BC1003

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 1003	001/07809	M W 1:10pm - 2:25pm 328 Milbank Hall	Sonia Pereira, Qasim Abbas	3	49/56
ECON 1003	003/07811	T Th 10:10am - 11:25am LI104 Diana Center	Belinda Archibong, Dan Poniachik	3	39/58

#### Spring 2020: ECON BC1003

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 1003	001/00145	M W 2:40pm - 3:55pm 328 Milbank Hall	Alan Dye	3	24/50
ECON 1003	002/00146	M W 1:10pm - 2:25pm 302 Barnard Hall	Homa Zarghamee	3	48/50

### ECON BC1007 Mathematical Methods for Economics. 4 points.

Covers basic mathematical methods required for intermediate theory courses and upper level electives in economics, with a strong emphasis on applications. Topics include simultaneous equations, functions, partial differentiation, optimization of functions of more than one variable, constrained optimization, and financial mathematics. *This course satisfies the Calculus requirement for the Barnard Economics major. NOTE: students who have previously taken Intermediate Micro Theory (ECON BC3035 or the equivalent) are *not* allowed to take Math Methods for Economics.*

#### Fall 2019: ECON BC1007

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 1007	001/07798	M W 10:10am - 11:25am LI103 Diana Center	Sharon Harrison	4	59/65

#### Spring 2020: ECON BC1007

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 1007	001/00160	M W 10:10am - 11:25am LI104 Diana Center	Sharon Harrison	4	52/65

## General Courses

May be taken with minimal previous study of economics.

### ECON BC2010 The Economics of Gender. 3 points.

Examination of gender differences in the U.S. and other advanced industrial economies. Topics include the division of labor between home and market, the relationship between labor force participation and family structure, the gender earnings gap, occupational segregation, discrimination, and historical, racial, and ethnic group comparisons.

#### Spring 2020: ECON BC2010

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 2010	001/00162	M W 11:40am - 12:55pm 202 Altschul Hall	Homa Zarghamee	3	156

### ECON BC2012 Economic History of Western Europe. 3 points.

BC: Fulfillment of General Education Requirement: Historical Studies (HIS).

**Not offered during 2019-20 academic year.**

The course is an introduction to the transformative economic developments that began in Western Europe and spread globally. It applies economic and empirical reasoning to analyze the underlying forces of modern economic development from pre-modern Europe to the Industrial Revolution and the emergence of a global economy.

**ECON BC2017 Introduction to Health Economics. 3 points.**

Prerequisites: (ECON BC1003 or ECON UN1105)

This course covers the core microeconomic theories and concepts needed to understand health and health care issues in the United States. It describes how the markets for health and health services are different from those for other goods, with an emphasis on providing the tools and skills for understanding health policy and regulations. In addition, it discusses theoretical and empirical aspects of key health economics issues, with a primary focus on applying the tools of economic analysis to understand the basic forces—supply and demand, asymmetric information, incentives, and externalities, for example—that influence health policies.

**Spring 2020: ECON BC2017**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 2017	001/00161	T Th 10:10am - 11:25am LI104 Diana Center	Rena Rosenberg	3	38/50

**ECON BC2020 Introduction to Development Economics. 3 points.**

Students will be introduced to current issues within development economics, and to fundamental economic concepts explaining economic growth. It will discuss the crosscutting themes of gender equality and environmental sustainability, while approaching topics within economic growth, population growth, human capital, health, agriculture, urbanization, natural resources, conflict, and institutions.

**ECON UN2029 FED Challenge Workshop. 1 point.**

Prerequisites: (ECON UN1105)

The workshop prepares students to compete in the annual College Fed Challenge sponsored by the Federal Reserve. Topics covered include macroeconomic and financial conditions, monetary policy, financial stability and the Federal Reserve System.

**Fall 2019: ECON UN2029**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 2029	001/47388	W 6:10pm - 8:00pm 418 International Affairs Bldg	Tamrat Gashaw	1	26/50

**ECON BC2075 Logic and Limits of Economic Justice. 3 points.**

BC: Fulfillment of General Education Requirement: Ethics and Values.

Prerequisites: Introduction to Economic Reasoning (ECON BC 1003) or Principles of Economics (ECON W1105). An introductory course in political theory or political philosophy is strongly recommended, but not required.

Introduce students to problems of economic justice under capitalism.

Course has three goals: (1) expose students to debates between economics and philosophers about the meaning and nature of justice, (2) explore conflict between efficiency and justice, (3) examine implications of justice for gender equality, intergenerational equity and climate change.

**STEM BC2223 Computer Programming for the Behavioral Sciences. 4 points.**

BC: Fulfillment of General Education Requirement: Quantitative and Deductive Reasoning (QUA).

Students will learn how to write computer programs that can test theories and predictions that arise in the behavioral sciences. For students with little or no programming background.

**ECON BC2224 Coding Markets. 4 points.**

Prerequisites: (ECON BC1003 or ECON UN1105)

Students will learn how to write computer programs that can be used to solve assignment problems, including matching buyers with sellers in electronic financial markets, as well as assignment problems that don't involve prices: matching organ donors with recipients, residents with hospitals, and students with high schools for example. The programming language used will be MATLAB. Suitable for students with little or no programming background.

**Fall 2019: ECON BC2224**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 2224	001/07824	T 4:10pm - 6:00pm 222 Milbank Hall	Rajiv Sethi	4	14/18

**ECHS BC2590 Measuring History: Empirical Approaches to Economic and Social History. 4 points.**

BC: Fulfillment of General Education Requirement: Social Analysis (SOC I), BC: Fulfillment of General Education Requirement: Social Analysis (SOC II).

This course examines big themes in economic and social history—population history and human well-being, inequality and poverty, and gender differences. Using these themes, it adopts a hands-on data-driven approach to introduce tools and concepts of empirical reasoning. Datasets related to each theme create opportunities for learning by doing.

**Spring 2020: ECHS BC2590**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECHS 2590	001/00139	M W 6:10pm - 7:25pm 516 Milstein Center	Alan Dye	4	25/24

## Quantitative Methods

These courses are required for the Economics track and are optional for the Political Economy track.

**ECON BC2411 Statistics for Economics. 4 points.**

BC: Fulfillment of General Education Requirement: Quantitative and Deductive Reasoning (QUA).

Elementary computational methods in statistics. Basic techniques in regression analysis of econometric models. One-hour weekly recitation sessions to complement lectures.

**Fall 2019: ECON BC2411**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 2411	001/07800	M W 11:40am - 12:55pm LI104 Diana Center	Randall Reback	4	26/50

**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.

**Fall 2019: ECON BC3018**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3018	001/07812	M W 11:40am - 12:55pm LI103 Diana Center	Homa Zarghamee	4	43/55

**Spring 2020: ECON BC3018**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3018	001/00163	T Th 11:40am - 12:55pm 323 Milbank Hall	Noha Emara	4	32/40

## Core Theory Courses

The courses listed below, required of both Political Economy and Economics track majors, constitute the core of the Barnard Economics major.

**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.

**Fall 2019: ECON BC3033**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3033	001/07802	M W 10:10am - 11:25am 504 Diana Center	Martina Jasova, Martha Susana Jaimes Builes	4	64/70

**Spring 2020: ECON BC3033**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3033	001/00166	M W 6:10pm - 7:25pm 504 Diana Center	Martina Jasova	4	51/60
ECON 3033	002/00167	T Th 6:10pm - 7:25pm 504 Diana Center	Andre Burgstaller	4	4/60

**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**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3035	001/07813	Th 12:10pm - 1:00pm Room TBA	Elizabeth Ananat, John Park	4	34/50
ECON 3035	001/07813	M W 2:40pm - 3:55pm LI001 Milstein Center	Elizabeth Ananat, John Park	4	34/50
ECON 3035	002/07822	T Th 4:10pm - 5:25pm LI103 Diana Center	Lalith Munasinghe, John Park	4	19/50

**Spring 2020: ECON BC3035**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3035	001/00168	T Th 4:10pm - 5:25pm LI104 Diana Center	Lalith Munasinghe	4	33/60

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

BC: Fulfillment of General Education Requirement: Reason and Value (REA)., BC: Fulfillment of General Education Requirement: Ethics and Values.

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**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3041	001/07814	T Th 1:10pm - 2:25pm LI103 Diana Center	Andre Burgstaller	3	40/80
ECON 3041	002/07823	M W 2:40pm - 3:55pm LI103 Diana Center	David Weiman	3	48/45

**Spring 2020: ECON BC3041**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3041	001/00170	T Th 1:10pm - 2:25pm 323 Milbank Hall	Andre Burgstaller	3	31
ECON 3041	002/00171	T Th 10:10am - 11:25am LI103 Diana Center	Belinda Archibong	3	37/50

## Upper-Level Elective Courses

The following economics elective courses have as a minimum either ECON BC3033, ECON BC3035, or both as prerequisites.

**ECON BC3010 American Wellbeing. 3 points.**

Prerequisites: (ECON BC 2411 or STAT W1111 or PSYCH BC1101 or BUSI G6014 or STAT W1211 or SIEO W3600 or SIEO W4150) and (ECON BC1003 or ECON W1105) Students using this course for an economics major must have also previously completed either Intermediate Microeconomic Theory (ECON BC3035) or Intermediate Microeconomics (ECON UN3211).

This course takes a novel approach to examining public policy concepts. The class mission is to construct a "U.S. Wellbeing Index," a measure of people's wellbeing in the United States. The process of constructing such an index and debating its shortcomings will provide students with a better understanding of the factors that should guide public policy decisions. Students successfully completing this course will: (1) develop skills for conducting and interpreting cost-benefit analyses, (2) search the web for relevant economic data and write efficient, well-documented code to download and format those data, (3) interpret time trends for data concerning the economy, human health, and environmental conditions, (4) develop an understanding of how various types of risks affect both individual and societal wellbeing, and (5) understand multiple perspectives in debates over the importance of equity considerations when considering the wellbeing of a society.

**ECON BC3011 Inequality and Poverty. 3 points.**

Prerequisites: ECON BC3035 or ECON BC3033, or permission of the instructor.

Conceptualization and measurement of inequality and poverty, poverty traps and distributional dynamics, economics and politics of public policies, in both poor and rich countries.

## Fall 2019: ECON BC3011

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3011	001/07801	T Th 11:40am - 12:55pm L1103 Diana Center	Ashley Timmer	3	59/60

**ECON BC3012 Economics of Education. 3 points.**

Prerequisites: ECON BC3035 and ECON BC2411 or permission of the instructor.

Analyzes education policies and education markets from an economic perspective. Examines challenges that arise when researchers attempt to identify the causal effects of inputs. Other topics: (1) education as an investment, (2) public school finance, (3) teacher labor markets, (4) testing/accountability programs, (5) school choice programs, and (6) urban public school reforms.

## Fall 2019: ECON BC3012

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3012	001/07825	M W 10:10am - 11:25am L1002 Milstein Center	Randall Reback, Asutosh Nanda	3	78

**ECON BC3013 Economic History of the United States. 3 points.**

BC: Fulfillment of General Education Requirement: Historical Studies (HIS).

Prerequisites: ECON BC3035 or ECON BC3033, or permission of the instructor.

Economic transformation of the United States from a small, open agrarian society in the late colonial era to the leading industrial economy of the 20th century. Emphasis is given to the quantitative, institutional, and spatial dimensions of economic growth, and the relationship between the changing structures of the economy and state.

## Spring 2020: ECON BC3013

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3013	001/00165	M W 1:10pm - 2:25pm L1104 Diana Center	David Weiman	3	49/50

**ECON BC3017 Economics of Business Organization. 3 points.**

**Not offered during 2019-20 academic year.**

Prerequisites: ECON BC3035 or permission of the instructor.

Economics of firm organization and the evolution of the modern business enterprise. The function of organizations in coordinating the use of economic resources. The role of technology, labor, management, and markets in the formation of the business enterprise. Includes international comparisons and attention to alternative economic theories on the role of business organizations on national competitive advantage.

**ECON BC3019 Labor Economics. 3 points.**

Prerequisites: ECON BC3035, or permission of the instructor.

Factors affecting the allocation and remuneration of labor; population structure; unionization and monopsony; education and training, mobility and information; sex and race discrimination; unemployment; and public policy.

## Fall 2019: ECON BC3019

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3019	001/07792	T Th 6:10pm - 7:25pm L1104 Diana Center	Lalith Munasinghe	3	17/45

**ECON BC3022 Economic History of Europe. 3 points.**

Prerequisites: Econ BC3035 or Econ BC3033 (or their equivalents), or permission of the instructor.

An introduction to the transformative economic developments that began in Western Europe and spread globally. This course applies economic and empirical reasoning to analyze the industrial revolution, its underlying causes and consequences, from pre-modern times to the 20th-century emergence of a global economy.

## Fall 2019: ECON BC3022

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3022	001/07793	M W 6:10pm - 7:25pm 504 Diana Center	Alan Dye	3	28/60

**ECON BC3023 Topics in Economic History. 3 points.**

**Not offered during 2019-20 academic year.**

Prerequisites: ECON BC3035 or ECON BC3033, or permission of the instructor

Topics vary in content. Fall 2011 topic: *The American Century*.

**ECON BC3024 Migration and Economic Change. 3 points.**

Prerequisites: (Econ BC 3035) or (Econ BC 3033)

This course examines a wide variety of topics about migration and its relationship to economic development, globalization, and social and economic mobility. At its core, this course reflects a key reality: that the movement of people—within regions, within countries, and across borders—is both the result of and impetus for economic change.

**ECON UN3025 Financial Economics. 3 points.**

Prerequisites: ECON UN3211 and ECON UN3213 and STAT UN1201

Institutional nature and economic function of financial markets.

Emphasis on both domestic and international markets (debt, stock, foreign exchange, eurobond, eurocurrency, futures, options, and others).

Principles of security pricing and portfolio management; the Capital Asset Pricing Model and the Efficient Markets Hypothesis.

**Fall 2019: ECON UN3025**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3025	001/47390	T Th 2:40pm - 3:55pm Ren Kraft Center	Tamrat Gashaw	3	71/150

**Spring 2020: ECON UN3025**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3025	001/00164	M W 2:40pm - 3:55pm 202 Altschul Hall	Martina Jasova	3	109/120
ECON 3025	002/13666	M W 6:10pm - 7:25pm 209 Havemeyer Hall	Joseph Onochie	3	86/110

**ECON BC3026 Economics of the Public Sector. 3 points.**

Prerequisites: (ECON BC3035 or ECON UN3211)

The purpose of the course is to think about public policy issues through an economic lens. We will explore the basic economic foundations of individual decision-making and discuss the ways in which economists hypothesize that individuals respond to the incentives embedded within public policies. We will pay particular attention to the nature and detail of existing public policies, and use economic analysis to predict how these policies might influence behavior. We will also explore some of the relevant empirical literature on a set of policy topics, to see how these predictions hold up.

**Fall 2019: ECON BC3026**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3026	001/07826	M W 11:40am - 12:55pm 203 Diana Center	Elizabeth Ananat	3	39/60

**ECON BC3029 Empirical Development Economics. 3 points.**

Prerequisites: (ECON BC3035 or ECON BC3033) and ECON UN3412

ECON BC3035 or ECON BC3033 and Econometrics, or permission of the instructor.

Examination of new challenges in the global economy from unequal income distribution and poor institutions to health epidemics and natural disasters. Accessing and analyzing real-time and historic data to understand the current global economy. Applied econometric techniques.

**ECON BC3031 Economics of Life. 3 points.**

Prerequisites: ECON BC3035 ECON BC3018 Econometrics previously or concurrently taken is highly recommended.

This course covers an immense variety of topics in what might be called demographic economics. Included are dating and marriage, along with the economics of beauty; fertility and its avoidance; how people use their time, and what determines those uses, including some discussion of labor-force behavior; interactions among family members—bargaining in the household and with family members outside the household; divorce; the economics of addiction, to such agents as alcohol, other drugs, tobacco and even work; religion, including its effects on economic outcomes; and death, including how we die, how long we live, and the nature and determinants of bequests. The central unifying feature throughout the course is the concentration on the **economics** of these activities and outcomes—the roles of incentives and institutions in affecting them.

**Fall 2019: ECON BC3031**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3031	001/07827	T Th 10:10am - 11:25am 323 Milbank Hall	Daniel Hamermesh	3	31/40

**ECON BC3038 International Money and Finance. 3 points.**

Prerequisites: ECON BC3033.

Introduction to balance of payments and exchange rate theory; capital mobility and expectations; internal and external adjustment under fixed and flexible exchange rates; international financial markets; capital mobility and expectations; international policy coordination and optimum currency areas; history of the international monetary system.

**Fall 2019: ECON BC3038**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3038	001/07828	T Th 6:10pm - 7:25pm LI103 Diana Center	Andre Burgstaller, Mohamed Obaidy	3	41

**ECON BC3039 Environmental and Natural Resource Economics. 3 points.**

Prerequisites: ECON BC1003 or ECON W1105. Prerequisite for Economics majors: ECON BC3035.

Link between economic behavior and environmental quality: valuation of non-market benefits of pollution abatement; emissions standards; taxes; and transferable discharge permits. Specific problems of hazardous waste; the distribution of hazardous pollutants across different sub-groups of the U.S. population; the exploitation of commonly owned natural resources; and the links between the environment, income distribution, and economic development.

**Spring 2020: ECON BC3039**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3039	001/00169	T Th 2:40pm - 3:55pm LI103 Diana Center	Belinda Archibong	3	30/50

**ECON BC3045 Business Cycles. 3 points.**  
**Not offered during 2019-20 academic year.**

Prerequisites: ECON BC3033.

Theories and policy implications of business cycles. IS/LM, AS/AD and the Phillips Curve; dynamic general equilibrium models based on microfoundations including the Real Business Cycle model; New Keynesian models; models of the political business cycle. Particular episodes in the macroeconomic history of the US will provide case studies in which to study these models and the application of policies within.

**ECON BC3047 International Trade. 3 points.**  
**Not offered during 2019-20 academic year.**

Prerequisites: (ECON BC3035 or ECON UN3211)(ECON BC3033 or ECON UN3213)

This course overviews global trade history and patterns, introduces the underlying international trade theories, and examines trade policies and institutions. The course weights empirical findings and theoretical models equally. Lectures focus on economic intuition behind the models and their applications. Topics cover patterns and trends in world trade history, classical/neo-classical/modern trade theories and models, trade policy and instruments, global production networks and value chains, U.S. trade and immigration policies. Throughout the course, registered students are required to complete assignments and exams, participate in research-based public debates, and submit a group research paper.

**ECON BC3098 Guided Research. 1 point.**  
 1 or 2 points

Prerequisites: Instructor's permission

Provides students with the experience of participating in the research process by matching them to a faculty mentor who will put them to work on one of his or her current research projects.

**Fall 2019: ECON BC3098**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3098	001/07830		Anja Tolonen	1	1/5
ECON 3098	002/07831		Martina Jasova	1	1/5
ECON 3098	003/00240		Rajiv Sethi	1	2/5
ECON 3098	004/00260		Randall Reback	1	0/5

**Spring 2020: ECON BC3098**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3098	001/00177		Rajiv Sethi	1	0/5
ECON 3098	002/00178		Homa Zarghamee	1	2/5
ECON 3098	003/00179		Martina Jasova	1	1/5
ECON 3098	004/00180		Randall Reback	1	1/5
ECON 3098	005/00181		Belinda Archibong	1	0/5
ECON 3098	006/00708		Elizabeth Ananat	1	1/5

**ECON BC3099 Independent Study. 1-3 points.**

Prerequisites: ECON BC3033 or ECON BC3035 or permission of the instructor.

Topic(s), requirements, workload and point value to be determined in consultation with faculty advisor. Forms available at the Office of the Registrar.

**Fall 2019: ECON BC3099**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3099	001/07815		Rajiv Sethi	1-3	0/10
ECON 3099	002/07816		Sharon Harrison	1-3	4/10
ECON 3099	003/07817		Anja Tolonen	1-3	0/10
ECON 3099	004/07818		Belinda Archibong	1-3	0/10
ECON 3099	005/00147		Martina Jasova	1-3	3/5
ECON 3099	006/00148		Homa Zarghamee	1-3	2/5
ECON 3099	007/00251		Randall Reback	1-3	1/5
ECON 3099	008/00265		Lalith Munasinghe	1-3	1/5
ECON 3099	009/00272		Linda Bell	1-3	1/1

**Spring 2020: ECON BC3099**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3099	001/00182		Martina Jasova	1-3	0/5
ECON 3099	002/00183		Rajiv Sethi	1-3	0/5
ECON 3099	003/00184		Sharon Harrison	1-3	0/5
ECON 3099	004/00185		Randall Reback	1-3	0/5
ECON 3099	005/00186		Homa Zarghamee	1-3	2/5

**ECON UN3265 The Economics of Money and Banking. 3 points.**

Prerequisites: ECON BC3033 and ECON BC3035 or the equivalent.

Introduction to the principles of money and banking. The intermediary institutions of the American economy and their historical developments, current issues in monetary and financial reform.

**Spring 2020: ECON UN3265**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3265	001/13675	M W 4:10pm - 5:25pm 417 International Affairs Bldg	Tri Vi Dang	3	149/140
ECON 3265	002/00187	M W 10:10am - 11:25am 402 Chandler	Jose Cao-Alvira	3	42/110

## Senior Requirement

Economics majors must take EITHER Senior Thesis I and Senior Thesis II OR a Senior Seminar plus an additional upper-level economics elective.



**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**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3061	001/07794	W 2:10pm - 4:00pm LI016 Milstein Center	Randall Reback	4	6/10
ECON 3061	002/07795	T 2:10pm - 4:00pm Room TBA	Sharon Harrison	4	6/10
ECON 3061	003/07796		0. FACULTY	4	0/10
ECON 3061	004/07797		0. FACULTY	4	0/10

**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**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3062	001/00107		Randall Reback	4	1/3

**Spring 2020: ECON BC3062**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3062	001/00172		Randall Reback	4	6/9
ECON 3062	002/00173	M 2:10pm - 4:00pm Room TBA	Sharon Harrison	4	5/10

**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**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3063	001/07803	M 2:10pm - 4:00pm 502 Diana Center	Anja Tolonen	4	17/16
ECON 3063	002/07804	T 2:10pm - 4:00pm 805 Altschul Hall	Belinda Archibong	4	13/16
ECON 3063	003/07829	M 12:00pm - 1:50pm LI018 Milstein Center	Martina Jasova	4	12/16

**Spring 2020: ECON BC3063**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3063	001/00175	M 12:10pm - 2:00pm 404 Barnard Hall	Elizabeth Ananat	4	13/18
ECON 3063	002/00176	T 2:10pm - 4:00pm 117 Barnard Hall	Lalith Munasinghe	4	8/17

**Cross-Listed Courses****Economics****ECON UN1105 Principles of Economics. 4 points.**

Corequisites: ECON UN1155

How a market economy determines the relative prices of goods, factors of production, and the allocation of resources and the circumstances under which it does it efficiently. Why such an economy has fluctuations and how they may be controlled.

**Fall 2019: ECON UN1105**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 1105	001/47385	M W 8:40am - 9:55am 501 Schermerhorn Hall	Sunil Gulati	4	211/220
ECON 1105	002/47386	M W 10:10am - 11:25am 417 International Affairs Bldg	Prajit Dutta	4	163/189
ECON 1105	003/47441	T Th 10:10am - 11:25am 309 Havemeyer Hall	Waseem Noor	4	167/189

**Spring 2020: ECON UN1105**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 1105	001/13663	M W 8:40am - 9:55am 501 Schermerhorn Hall	Sunil Gulati	4	183/220
ECON 1105	002/13662	T Th 4:10pm - 5:25pm 501 Schermerhorn Hall	Brendan O'Flaherty	4	168/189
ECON 1105	003/13661	T Th 10:10am - 11:25am 309 Havemeyer Hall	Waseem Noor	4	142/189

**ECON UN2029 FED Challenge Workshop. 1 point.**

Prerequisites: (ECON UN1105)

The workshop prepares students to compete in the annual College Fed Challenge sponsored by the Federal Reserve. Topics covered include macroeconomic and financial conditions, monetary policy, financial stability and the Federal Reserve System.

**Fall 2019: ECON UN2029**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 2029	001/47388	W 6:10pm - 8:00pm 418 International Affairs Bldg	Tamrat Gashaw	1	26/50

**ECON UN2105 The American Economy. 3 points.**

Prerequisites: ECON UN1105

The course surveys issues of interest in the American economy, including economic measurement, well-being and income distribution, business cycles and recession, the labor and housing markets, saving and wealth, fiscal policy, banking and finance, and topics in central banking. We study historical issues, institutions, measurement, current performance and recent research.

**Fall 2019: ECON UN2105**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 2105	001/47409	T Th 11:40am - 12:55pm Aud Earl Hall	Claudia Halbac	3	64/86

**STEM BC2223 Computer Programming for the Behavioral Sciences. 4 points.**

BC: Fulfillment of General Education Requirement: Quantitative and Deductive Reasoning (QUA).

Students will learn how to write computer programs that can test theories and predictions that arise in the behavioral sciences. For students with little or no programming background.

**ECON UN2257 Global Economy. 3 points.**

Prerequisites: ECON UN1105

Covers five areas within the general field of international economics: (i) microeconomic issues of why countries trade, how the gains from trade are distributed, and protectionism; (ii) macroeconomic issues such as exchange rates, balance of payments and open economy macroeconomic adjustment, (iii) the role of international institutions (World Bank, IMF, etc); (iv) economic development and (v) economies in transition.

**Spring 2020: ECON UN2257**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 2257	001/13665	T Th 11:40am - 12:55pm 301 Pupin Laboratories	Ronald Miller	3	66/189

**ECON UN3025 Financial Economics. 3 points.**Prerequisites: ECON UN3211 and ECON UN3213 and STAT UN1201  
Institutional nature and economic function of financial markets.

Emphasis on both domestic and international markets (debt, stock, foreign exchange, eurobond, eurocurrency, futures, options, and others). Principles of security pricing and portfolio management; the Capital Asset Pricing Model and the Efficient Markets Hypothesis.

**Fall 2019: ECON UN3025**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3025	001/47390	T Th 2:40pm - 3:55pm Ren Kraft Center	Tamrat Gashaw	3	71/150

**Spring 2020: ECON UN3025**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3025	001/00164	M W 2:40pm - 3:55pm 202 Altschul Hall	Martina Jasova	3	109/120
ECON 3025	002/13666	M W 6:10pm - 7:25pm 209 Havemeyer Hall	Joseph Onochie	3	86/110

**ECON UN3211 Intermediate Microeconomics. 4 points.**

Prerequisites: ECON UN1105 and MATH UN1101 and (MATH UN1201 or MATH UN1207)

The determination of the relative prices of goods and factors of production and the allocation of resources.

**Fall 2019: ECON UN3211**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3211	001/47391	T Th 11:40am - 12:55pm 717 Hamilton Hall	Caterina Musatti	4	60/86
ECON 3211	002/47392	M W 10:10am - 11:25am 310 Fayerweather	Wouter Vergote	4	95/96
ECON 3211	003/47393	M W 1:10pm - 2:25pm 428 Pupin Laboratories	Susan Elmes	4	73/96

**Spring 2020: ECON UN3211**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3211	001/13667	M W 2:40pm - 3:55pm 402 Chandler	Wouter Vergote	4	84/110
ECON 3211	002/13668	T Th 11:40am - 12:55pm 602 Hamilton Hall	Caterina Musatti	4	73/86
ECON 3211	003/13669	M W 11:40am - 12:55pm 207 Mathematics Building	Ingmar Nyman	4	115/110

**ECON UN3213 Intermediate Macroeconomics. 4 points.**

Prerequisites: (MATH UN1101 or MATH UN1207) and ECON UN1105 or the equivalent.

Corequisites: MATH UN1201

This course covers the determination of output, employment, inflation and interest rates. Topics include economic growth, business cycles, monetary and fiscal policy, consumption and savings and national income accounting.

**Fall 2019: ECON UN3213**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3213	001/47397	M W 1:10pm - 2:25pm 417 International Affairs Bldg	Xavier Sala-i-Martin	4	315/325
ECON 3213	002/47396	T Th 1:10pm - 2:25pm 417 International Affairs Bldg	Ronald Miller	4	26/86

**Spring 2020: ECON UN3213**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3213	001/13671	M W 8:40am - 9:55am 517 Hamilton Hall	Stephanie Schmitt-Grohé	4	45/86
ECON 3213	002/13672	M W 10:10am - 11:25am 517 Hamilton Hall	Stephanie Schmitt-Grohé	4	60/86
ECON 3213	003/13673	T Th 1:10pm - 2:25pm 209 Havemeyer Hall	Irasema Alonso	4	100/110

**ECON UN3265 The Economics of Money and Banking. 3 points.**

Prerequisites: ECON BC3033 and ECON BC3035 or the equivalent.

Introduction to the principles of money and banking. The intermediary institutions of the American economy and their historical developments, current issues in monetary and financial reform.

**Spring 2020: ECON UN3265**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3265	001/13675	M W 4:10pm - 5:25pm 417 International Affairs Bldg	Tri Vi Dang	3	149/140
ECON 3265	002/00187	M W 10:10am - 11:25am 402 Chandler	Jose Cao-Alvira	3	42/110

**ECON UN3412 Introduction To Econometrics. 4 points.**

Prerequisites: (ECON UN3211 or ECON UN3213) and (MATH UN1201 or MATH UN1207) and STAT UN1201

Modern econometric methods; the general linear statistical model and its extensions; simultaneous equations and the identification problem; time series problems; forecasting methods; extensive practice with the analysis of different types of data.

**Fall 2019: ECON UN3412**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3412	001/47399	T Th 2:40pm - 3:55pm 702 Hamilton Hall	Seyhan Erden	4	83/86
ECON 3412	002/47400	M W 4:10pm - 5:25pm 602 Hamilton Hall	Jushan Bai	4	75/86
ECON 3412	003/47401	T Th 11:40am - 12:55pm 413 Kent Hall	Tamrat Gashaw	4	44/86

**Spring 2020: ECON UN3412**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 3412	001/13676	T Th 2:40pm - 3:55pm 702 Hamilton Hall	Seyhan Erden	4	93/86
ECON 3412	002/13677	M W 1:10pm - 2:25pm 602 Hamilton Hall	Tamrat Gashaw	4	54/86
ECON 3412	003/13678	M W 2:40pm - 3:55pm 702 Hamilton Hall	Thomas Piskula	4	41/86

**ECON GU4020 Economics of Uncertainty and Information. 3 points.**

Prerequisites: ECON UN3211 and ECON UN3213 and STAT UN1201

Topics include behavior uncertainty, expected utility hypothesis, insurance, portfolio choice, principle agent problems, screening and signaling, and information theories of financial intermediation.

**Fall 2019: ECON GU4020**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 4020	001/47403	T Th 4:10pm - 5:25pm 717 Hamilton Hall	Pierre-Andre Chiappori	3	26/60

**ECON GU4211 Advanced Microeconomics. 4 points.**

Prerequisites: ECON UN3211 and ECON UN3213 and MATH UN2010

Students must register for required discussion section.

Corequisites: MATH UN2500, MATH GU4061

The course provides a rigorous introduction to microeconomics. Topics will vary with the instructor but will include consumer theory, producer theory, general equilibrium and welfare, social choice theory, game theory and information economics. This course is strongly recommended for students considering graduate work in economics. Discussion section required.

**Spring 2020: ECON GU4211**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 4211	001/13683	M W 1:10pm - 2:25pm 702 Hamilton Hall	Susan Elmes	4	8/64

**ECON GU4213 Advanced Macroeconomics. 4 points.**

Prerequisites: ECON UN3211 and ECON UN3213 and ECON UN3412 and MATH UN2010 Required discussion section ECON GU4214

An introduction to the dynamic models used in the study of modern macroeconomics. Applications of the models will include theoretical issues such as optimal lifetime consumption decisions and policy issues such as inflation targeting. This course is strongly recommended for students considering graduate work in economics.

**Fall 2019: ECON GU4213**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 4213	001/47404	T Th 1:10pm - 2:25pm 516 Hamilton Hall	Irasema Alonso	4	16/54

**ECON GU4228 Urban Economics. 3 points.**

Prerequisites: ECON UN3211 and ECON UN3213

Congestion and other games, and the pricing of transit services. Location theory and land rents. Segregation and discrimination. The fiscal structure of American cities. Zoning and the taking issue. Abandonment and city-owned property. Economic development, abatements, subsidies, and eminent domain. Crime, deadweight losses, and the allocation of police services.

**ECON GU4230 Economics of New York City. 3 points.**

Prerequisites: ECON UN3211 and ECON UN3213 and STAT UN1201

This course takes New York as our laboratory. Economics is about individual choice subject to constraints and the ways that choices sum up to something often much more than the parts. The fundamental feature of any city is the combination of those forces that bring people together and those that push them apart. Thus both physical and social space will be central to our discussions. The underlying theoretical and empirical analysis will touch on spatial aspects of urban economics, regional, and even international economics. We will aim to see these features in New York City taken as a whole, as well as in specific neighborhoods of the city. We will match these theoretical and empirical analyses with readings that reflect close observation of specific subjects. The close observation is meant to inspire you to probe deeply into a topic in order that the tools and approaches of economics may illuminate these issues in a fresh way.

**Spring 2020: ECON GU4230**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 4230	001/13685	T Th 10:10am - 11:25am 517 Hamilton Hall	Donald Davis	3	53/86

**ECON GU4251 Industrial Organization. 3 points.**

Prerequisites: ECON UN3211 and ECON UN3213

The study of industrial behavior based on game-theoretic oligopoly models. Topics include pricing models, strategic aspects of business practice, vertical integration, and technological innovation.

**Fall 2019: ECON GU4251**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 4251	001/47405	M W 11:40am - 12:55pm 717 Hamilton Hall	Ingmar Nyman	3	49/86

**Spring 2020: ECON GU4251**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 4251	001/13686	M W 11:40am - 12:55pm 310 Fayerweather	Wouter Vergote	3	54/86

**ECON GU4280 Corporate Finance. 3 points.**

Prerequisites: ECON UN3211 and ECON UN3213 and STAT UN1201  
An introduction to the economics principles underlying the financial decisions of firms. The topics covered include bond and stock valuations, capital budgeting, dividend policy, market efficiency, risk valuation, and risk management. For information regarding REGISTRATION for this course, go to: <http://econ.columbia.edu/registration-information> (<http://econ.columbia.edu/registration-information/>).

## Fall 2019: ECON GU4280

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 4280	001/47406	M W 11:40am - 12:55pm 5ab Kraft Center	Olivier Darmouni	3	64/75
ECON 4280	002/47407	T Th 4:10pm - 5:25pm 602 Hamilton Hall	Tri Vi Dang	3	81/86

## Spring 2020: ECON GU4280

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 4280	001/13688	M W 10:10am - 11:25am 413 Kent Hall	Wei Jiang	3	66/70
ECON 4280	002/13689	T Th 4:10pm - 5:25pm 602 Hamilton Hall	Tri Vi Dang	3	74/80

**ECON GU4301 Economic Growth and Development. 3 points.**

Prerequisites: ECON UN3211 and ECON UN3213  
Empirical findings on economic development, theoretical development models; problems of efficient resource allocation in a growing economy; balanced and unbalanced growth in closed and open economic systems; the role of capital accumulation and innovation in economic growth.

## Fall 2019: ECON GU4301

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 4301	001/47410	M W 8:40am - 9:55am 209 Havemeyer Hall	Xavier Sala-i-Martin	3	92/100

**ECON GU4321 Economic Development. 3 points.**

Prerequisites: ECON UN3211 and ECON UN3213  
Historical comparative examination of the economic development problems of the less developed countries; the roles of social institutions and human resource development; the functions of urbanization, rural development, and international trade.

## Spring 2020: ECON GU4321

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 4321	001/13690	T Th 8:40am - 9:55am 633 Seeley W. Mudd Building	Jack Willis	3	30/67

**ECON GU4325 Economic Organization and Development of Japan. 3 points.**

CC/GS/SEAS: Partial Fulfillment of Global Core Requirement

Prerequisites: ECON UN3211 and ECON UN3213  
The growth and structural changes of the post-World War II economy; its historical roots; interactions with cultural, social, and political institutions; economic relations with the rest of the world.

## Fall 2019: ECON GU4325

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 4325	001/47411	T Th 8:40am - 9:55am 402 Chandler	Edward Lincoln	3	58/125

**ECON GU4370 Political Economy. 3 points.**

Prerequisites: ECON UN3211 and ECON UN3213 and STAT UN1201 or POLS 4710 for those who declared prior to Spring 2014.  
The course studies the interaction between government and markets. The first part discusses market failures and the scope and limits of government intervention, including the use of modified market-type tools (for example, cap-and-trade regulations for pollution). The second part discusses collective decision-making, in particular voting and its properties and pathologies. The final part discusses economic inequality and government's role in addressing it.

## Fall 2019: ECON GU4370

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 4370	001/47412	T Th 5:40pm - 6:55pm 702 Hamilton Hall	John Marshall	3	51/86

**ECON GU4400 Labor Economics. 3 points.**

Prerequisites: ECON UN3211 and ECON UN3213  
The labor force and labor markets, educational and man power training, unions and collective bargaining, mobility and immobility, sex and race discrimination, unemployment.

**ECON GU4412 Advanced Econometrics. 4 points.**

Prerequisites: ECON UN3211 and ECON UN3213 and ECON UN3412 and MATH UN2010 Students must register for required discussion section.  
The linear regression model will be presented in matrix form and basic asymptotic theory will be introduced. The course will also introduce students to basic time series methods for forecasting and analyzing economic data. Students will be expected to apply the tools to real data.

## Fall 2019: ECON GU4412

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 4412	001/47413	T Th 10:10am - 11:25am 503 Hamilton Hall	Serena Ng	4	18/54

**ECON GU4415 Game Theory. 3 points.**

Prerequisites: ECON UN3211 and ECON UN3213  
Introduction to the systematic treatment of game theory and its applications in economic analysis.

## Fall 2019: ECON GU4415

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 4415	001/47414	M W 8:40am - 9:55am 402 Chandler	Prajit Dutta	3	67/110

## Spring 2020: ECON GU4415

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 4415	001/13691	T Th 2:40pm - 3:55pm 209 Havemeyer Hall	Nima Haghpahanah Jahromi	3	85/110

**ECON GU4465 Public Economics. 3 points.**

Prerequisites: ECON UN3211 and ECON UN3213

Types of market failures and rationales for government intervention in the economy. Benefit-cost analysis and the theory of public goods. Positive and normative aspects of taxation. The U.S. tax structure.

**Fall 2019: ECON GU4465**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 4465	001/47416	M W 5:40pm - 6:55pm 420 Pupin Laboratories	Timothy Goodspeed	3	29/50

**Spring 2020: ECON GU4465**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 4465	001/13692	T Th 11:40am - 12:55pm 702 Hamilton Hall	Ceyhun Elgin	3	45/86

**ECON GU4480 Gender and Applied Economics. 3 points.**

Prerequisites: ECON UN3211 and ECON UN3213

This course studies gender gaps, their extent, determinants and consequences. The focus will be on the allocation of rights in different cultures and over time, why women's rights have typically been more limited and why most societies have traditionally favored males in the allocation of resources.

**Fall 2019: ECON GU4480**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 4480	001/47417	M W 5:40pm - 6:55pm 503 Hamilton Hall	Lena Edlund	3	7/54

**ECON GU4500 International Trade. 3 points.**

Prerequisites: ECON UN3211 and ECON UN3213

The theory of international trade, comparative advantage and the factor endowments explanation of trade, analysis of the theory and practice of commercial policy, economic integration. International mobility of capital and labor; the North-South debate.

**Fall 2019: ECON GU4500**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 4500	001/47418	T Th 8:40am - 9:55am 702 Hamilton Hall	Reka Juhasz	3	64/86

**Spring 2020: ECON GU4500**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
ECON 4500	001/13693	T Th 8:40am - 9:55am 602 Hamilton Hall	Reka Juhasz	3	53/86

**ECON G4526 Transition Reforms, Globalization and Financial Crisis. 3 points.**

Not offered during 2019-20 academic year.

Prerequisites: *ECON W3211* and *W3213*.

Covers reform issues in transition economies such as price liberalization, currency reform, asset privatization, macroeconomic stabilization, trade liberalization and exchange rate policies, and foreign resource flows with suitable examples from the experience of the transition economies of Russia, the post-Soviet states, East-central Europe, China and Vietnam.

**ECON GU4750 Globalization and Its Risks. 3 points.**

Prerequisites: ECON UN3211 and ECON UN3213

The world is being transformed by dramatic increases in flows of people, goods and services across nations. Globalization has the potential for enormous gains but is also associated to serious risks. The gains are related to international commerce where the industrial countries dominate, while the risks involve the global environment, poverty and the satisfaction of basic needs that affect in great measure the developing nations. Both are linked to a historical division of the world into the North and the South-the industrial and the developing nations. Key to future evolution are (1) the creation of new markets that trade privately produced public goods, such as knowledge and greenhouse gas emissions, as in the Kyoto Protocol; (2) the updating of the Bretton Woods Institutions, including the creation of a Knowledge Bank and an International Bank for Environmental Settlements.

**ECON G4527 Economic Organization and Development of China. 3 points.**

Prerequisites: *ECON W3211* and *W3213*.

An analytical survey of the economic organization of China, with reference to population and land resources, agriculture, industries, transportation, trade, and finance. The social and cultural forces affecting economic development.

**Industrial Engineering and Operations Research****IEOR E2261 Accounting and Finance. 3 points.**

Lect: 3.

Prerequisites: (ECON UN1105)

*For undergraduates only.* This course examines the fundamental concepts of financial accounting and finance, from the perspective of both managers and investors. Key topics covered in this course include principles of accrual accounting; recognizing and recording accounting transactions; preparation and analysis of financial statements, including balance sheets, income statements, cash flow statements, and statements of owners' equity; ratio analysis; pro-forma projections; time value of money (present values, future values and interest/discount rates); inflation; discounted-cash-flow (DCF) project evaluation methods; deterministic and probabilistic measures of risk; capital budgeting.

**Fall 2019: IEOR E2261**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
IEOR 2261	001/10246	F 10:10am - 12:40pm LI002 Milstein Center	Nadejda Zaets	3	63/100

**Spring 2020: IEOR E2261**

Course Number	Section/Call Number	Times/Location	Instructor	Points	Enrollment
IEOR 2261	001/12837	F 10:10am - 12:40pm LI002 Milstein Center	Nadejda Zaets	3	70/100