ECONOMICS - PHILOSOPHY

Economics Department:

Department Website: https://econ.columbia.edu

Office Location: 1022 International Affairs Building

Office Contact: 212-854-3680, econ-info@columbia.edu

Director of Undergraduate Studies: Dr. Susan Elmes, 1006 International Affairs Building; 212-854-3680; se5@columbia.edu

Undergraduate Coordinator: Laura Yan, ly38@columbia.edu

The Study of Economics

Economics is the study of the ways in which society allocates its scarce resources among alternative uses and the consequences of these decisions. The areas of inquiry deal with a varied range of topics such as international trade, domestic and international financial systems, labor market analysis, and the study of less developed economies. Broadly speaking, the goal of an economics major is to train students to think analytically about social issues and, as such, provide a solid foundation for not only further study and careers in economics, but also for careers in law, public service, business, and related fields.

The Economics Department offers a general economics major in addition to five interdisciplinary majors structured to suit the interests and professional goals of a heterogeneous student body. All of these programs have different specific requirements but share the common structure of core theoretical courses that provide the foundation for higher-level elective courses culminating in a senior seminar. Students are urged to carefully look through the details of each of these programs and to contact an appropriate departmental advisor to discuss their particular interests.

Student Advising

The Department of Economics offers a variety of advising resources to provide prospective and current undergraduate majors and concentrators with the information and support needed to successfully navigate through the program. These resources are described below.

Consulting Advisors

For answers to the most common questions that students have about the majors, the department has graduate student advisors, who are available by e-mail at econ-advising@columbia.edu, or during weekly office hours to meet with students.

Students should direct all questions and concerns about any economic program to the graduate student advisors either in person or via e-mail. The graduate student advisors can discuss major requirements, scheduling, and major course selection, as well as review student checklists and discuss progress in the major. Occasionally, graduate student advisors may refer a student to someone else in the department (such as the director of undergraduate studies) or in the student’s school for additional advising.

Contact information and office hours for the graduate student advisors are posted on the Advisors page Advisors page of the departmental website in the week prior to the beginning of the semester. Students considering one of the interdepartmental majors should speak to both a graduate student advisor from the Economics Department and the advisor from the other department early in the sophomore year.

Faculty Advisors

Faculty advisors are available only to declared majors. They are able to discuss students’ academic and career goals, both in terms of the undergraduate career and post-graduate degrees and research. Students wishing to discuss these types of substantive topics may request a faculty advisor by completing the google form available on the Advisors page of the departmental website.

The department does its best to match students with faculty members that share similar academic interests. While faculty advisors do not discuss major requirements—that is the role of the graduate student advisors—they do provide guidance in course selection as it relates to meeting a student’s intellectual goals and interests, as well as advise on career and research options. It is recommended that students who plan on attending a Ph.D. program in economics or are interested in pursuing economics research after graduation request a faculty advisor.

Enrolling in Classes

Prerequisites

The Department strictly enforces all course prerequisites. Prerequisite courses cannot be taken concurrently with or after the course—they must be taken before the course. Students who take a course out of sequence (before or concurrently with its prerequisites) will not be allowed to count those credits towards the completion of their major, and consequently will be required to take an additional course to replace those credits. For placement in the calculus sequence, please consult the Math department’s section of the Bulletin. The list of Prerequisites for Econ courses can be found on the Course Prerequisites page of the Dept. website.

Registration for Restricted Classes

Most lecture courses are open to online Registration. However, Seminars, Research Courses, Independent Study and Corporate Finance are restricted. Information regarding Seminar Registration can be found on the Senior Seminar Registration page. Registration information for Research Course credit, Independent Study and Corporate Finance can be found on the Registration Information page.

Preparing for Graduate Study

On the Preparing for Graduate School page on our website, you will find general advice for students thinking about pursuing a PhD in economics. All students who are considering graduate work should review the material posted there. Since graduate work requires more mathematical and statistical training than the economics major, students interested in graduate work should speak with econ-advising about planning their course schedule.

Coursework Taken Outside of Columbia

Advanced Placement

AP tests must be taken in both microeconomics and macroeconomics, with a score of 5 on one test and at least a 4 on the other. Provided that this is achieved, the department grants 4 credits for a score of 4 and 5 on the AP Economics exam along with exemption from ECON UN1105 PRINCIPLES OF ECONOMICS.

IB Credit or GCE A Level Exams
If you took the IB Exam and received either a 6 or a 7 or if you took GCE A Level Exams and received an A or a B, then you will receive credit from the college. Those credits will automatically exempt you from the Principles requirement.

**Barnard College Courses**

Barnard Economics Core Courses and seminars do NOT count towards the Columbia Economics Major or concentration. Specifically, the following courses will NOT count toward your major program:

ECON BC1003, ECON BC1007, ECON BC2411, ECON BC3018, ECON BC3033, ECON BC3035.

The Barnard courses listed below will count as Electives toward your Economics Major provided you have completed the course prerequisites, have not taken an equivalent course in the Columbia Department, and have fulfilled the minimum requirement of taking 5 lecture courses in the Columbia Department.

<table>
<thead>
<tr>
<th>Economics (Barnard)</th>
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<tbody>
<tr>
<td>ECON BC2010</td>
<td>The Economics of Gender</td>
</tr>
<tr>
<td>ECON BC2012</td>
<td>Economic History of Western Europe</td>
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<tr>
<td>ECON BC2017</td>
<td>INTRODUCTION TO HEALTH ECONOMICS</td>
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<td>ECON BC2020</td>
<td>Introduction to Development Economics</td>
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<tr>
<td>ECON BC2075</td>
<td>Logic and Limits of Economic Justice</td>
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<tr>
<td>ECON BC2224</td>
<td>CODING MARKETS</td>
</tr>
<tr>
<td>ECON BC3010</td>
<td>American Wellbeing</td>
</tr>
<tr>
<td>ECON BC3011</td>
<td>INEQUALITY AND POVERTY</td>
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<tr>
<td>ECON BC3012</td>
<td>THE ECONOMICS OF EDUCATION</td>
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<tr>
<td>ECON BC3013</td>
<td>Economic History of the United States</td>
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<td>ECON BC3014</td>
<td>Entrepreneurship</td>
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<td>ECON BC3017</td>
<td>Economics of Business Organization</td>
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<tr>
<td>ECON BC3019</td>
<td>LABOR ECONOMICS</td>
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<tr>
<td>ECON BC3027</td>
<td>Economics of Inequality</td>
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<tr>
<td>ECON BC3022</td>
<td>Economic History of Europe</td>
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<td>ECON BC3023</td>
<td>Topics in Economic History</td>
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<td>ECON BC3024</td>
<td>MIGRATION # ECONOMIC CHANGE</td>
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<tr>
<td>ECON BC3026</td>
<td>Economics of the Public Sector</td>
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<td>ECON BC3029</td>
<td>EMPIRICAL APPROACHES DEVLMNT</td>
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<td>ECON BC3031</td>
<td>Economics of Life</td>
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<tr>
<td>ECON BC3038</td>
<td>INTERNATIONAL MONEY # FINANCE</td>
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<tr>
<td>ECON BC3039</td>
<td>Environmental and Natural Resource Economics</td>
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<tr>
<td>ECON BC3041</td>
<td>THEORETICAL FOUNDTNS-POLIT ECON</td>
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<tr>
<td>ECON BC3045</td>
<td>BUSINESS CYCLES</td>
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<td>ECON BC3047</td>
<td>International Trade</td>
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<td>ECON BC3049</td>
<td>Economic Evaluation of Social Programs</td>
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<tr>
<td>ECON BC3270</td>
<td>Topics in Money and Finance</td>
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<tr>
<td>ECON UN3025</td>
<td>FINANCIAL ECONOMICS</td>
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<tr>
<td>ECON UN3265</td>
<td>MONEY AND BANKING</td>
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**NOTES:**

1) ECON UN2261 Accounting and Finance for Economics does NOT count as an economics elective. Financial Economics majors may take this course to fulfill their accounting requirement.

2) The above list is not necessarily complete. Barnard Department on occasion adds new lecture courses. If you have a question about a Barnard elective course not listed above, then you should contact econ-advising@columbia.edu.

**Transfer Courses**

Any courses taken outside of the Economics Departments at Columbia or Barnard that you would like to apply towards the completion of your economics degree must be approved by the Department of Economics in addition to approval by your school. All majors and joint majors are required to take a minimum of 5 lecture courses from the Columbia Department of Economics and must take their senior seminar at Columbia.

See the **Transfer Credit Information** page for details on which courses may be eligible for transfer credit, as well as information on how to apply for transfer credit. Please read the information carefully before submitting your materials for review.

**Study Abroad Courses**

All students who plan to study abroad must contact Sunil Gulati during the prior semester to get preliminary approval for any economics courses that they intend to take abroad. Students should also review the information posted on the **Transfer Credit Information** page for details regarding which courses may be eligible.

**Summer Courses**

All students who hope to take classes in the Summer outside of Columbia University must also contact Sunil Gulati in advance to get preliminary approval for any economics courses. Note that students must also have approval from their school to take Summer courses outside of Columbia.

**Undergraduate Research and Senior Thesis**

**Undergraduate Research in Courses**

All majors write a research paper in either a senior seminar or in the honors seminar. Each semester the department offers a wide range of senior seminars (see **Senior Seminar Descriptions** for the seminars currently on offer). Seminars are small, discussion-based courses focused on a research topic in economics. Students are expected to attend and participate in these courses, as well as to write an original research paper. Registration information for senior seminars is available on the **Senior Seminar Registration** page. Some students will write a senior thesis in the Honors Seminar. Details about writing a senior thesis are below.

**Senior Thesis Coursework and Requirements**

**SENIOR HONORS THESIS**

**Honors Seminar**

The honors seminar is a full-year course, and you will not receive a grade until you have completed both semesters. Completing both semesters satisfies your seminar requirement in the economics department. If you do not complete both semesters, however, you must take a senior seminar to graduate as a major. For details see the **Honors and Prizes** page.

Students who successfully complete the Honors Seminar are eligible to graduate with departmental honors in economics.
Undergraduate Research Outside of Courses

During the academic year, students may work as an RA with a faculty member or PhD student and receive 1 – 2 credits of either ECON GU4996 Research Credit or ECON GU4995 Research Credit (GU 4995 is for GS students only). Research positions typically entail an average of 3 hours of work per week per credit. Research credit may not be used as a substitute for elective or seminar requirements in the major and students will receive a letter grade for their work. Students considering graduate work or writing a senior thesis in economics should take one or more RA positions during their time at Columbia. Information on Research Credit (GU4995 and GU4996) is posted on the Opportunities page. Available RA positions are posted every semester on our WIKI page. Econ Info For Students (log-in required).

Department Honors and Prizes

Departmental Honors

Economics majors and economics joint majors who wish to be considered for departmental honors in economics must:

1. Have at least a 3.7 GPA in their major courses;
2. Take ECON GU4999 Senior Honors Thesis Workshop (a one-year course);

Students must apply for admission to GU4999 and details regarding that application are included in the annual Summer Mailing sent to all students with a declared program in economics. Please note that ECON GU4999 Senior Honors Thesis Workshop may be taken to fulfill the seminar requirement for the economics major and all economics joint majors. Normally no more than 10% of graduating majors receive departmental honors in a given academic year. Please see the Honors and Prizes page on the department’s website for more information.

Undergraduate Prizes

All prize recipients are announced at the end of the spring semester each academic year.

Sanford S. Parker Prize

Established in 1980, this prize is awarded annually to a Columbia College graduating student who majored or concentrated in economics and plans on continuing his or her studies in an economics Ph.D. program within the two years following his or her graduation.

Romine Prize

Established in 1997, this prize is awarded annually to two students (Columbia College or General Studies) majoring in economics: one for the best honors thesis paper, and the other for the best economics seminar paper.

Summer Research Prizes

Parker Summer Research Fellowship

The Parker Summer Fellowship provides financial support for five Columbia College underclassmen who take unpaid summer internships that focus on research. Preference is given to students working with Columbia researchers but all CC students undertaking a summer research position are eligible to apply.

GS Prize for Summer Research

The GS Summer Fellowship provides financial support for 2 GS underclassmen who take unpaid summer internships that focus on research. Preference is given to students working with Columbia researchers but all GS students undertaking a summer research position are eligible to apply.

Other Important Information

Online Information

Students can access useful information online, including but not limited to: a comprehensive FAQ page; transfer credit information; sample programs and checklists; faculty office hours, contact information and fields of specialization; advisor contact information; teaching and research assistant opportunities; a list of tutors; and current course offerings.

Posted on our Announcements page are links to the most important memos that we distribute to our majors including pre-registration mailings, the summer mailing and information for new majors. Our WIKI page has information about opportunities both inside and outside of the department. Login is required to access the WIKI page.

Frequently Asked Questions

As a first step, students are encouraged to visit the Dept’s FAQ page, which provides comprehensive information and answers to the most frequently-asked questions about the departmental majors and requirements. This page also includes a section that answers specific questions of first-year students, sophomores, and non-majors.

Professors

Douglas Almond (also School of International and Public Affairs)
Jushan Bai
Jagdish N. Bhagwati
Sandra Black (also School of International and Public Affairs)
Alessandra Casella (also Political Science Department)
Yeon-Koo Che
Pierre-André Chiappori
Graciela Chichilnisky
Richard Clarida (also School of International and Public Affairs)
Donald Davis
Prajit Dutta
Gautam Gowrisankaran
Harrison Hong
R. Glenn Hubbard (also Business School)
Navin Kartik
Wojciech Kopczuk (also School of International and Public Affairs)
Sokbae (Simon) Lee
Qingmin Liu
Suresh Naidu (also School of International and Public Affairs)
Sandra Black (also School of International and Public Affairs)
Jagdish N. Bhagwati
Jushan Bai
Douglas Almond (also School of International and Public Affairs)
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Navin Kartik
Wojciech Kopczuk (also School of International and Public Affairs)
Sokbae (Simon) Lee
Qingmin Liu
Suresh Naidu (also School of International and Public Affairs)
Serena Ng
Brendan O’Flaherty
Andrea Prat (also Business School)
Jeffrey Sachs (also Earth Institute, School of International and Public Affairs, Dept of Health Policy and Management)
**Guidance for Undergraduate Students in the Department**

**Program Planning for all Students**

There are a number of resources to assist you in planning your program in economics.

- **Checklists** for all programs are available on our website.
- **Econ-advising** is available to assist all students with academic planning. They can be reached by email or in person during their office hours.
- Tentative annual course offerings are posted on the [website](#) and in departmental newsletters.
- Information for new students is posted on the [Academic Resources Fair](#) page.

**Course Numbering Structure**

All economics programs begin with an introductory 1000 level course (Principles of Economics) and progress through the required 3000 level required core economics courses (Intermediate Micro, Intermediate Macro and Econometrics). Most elective courses are offered at the 3000 and 4000 level and all require that students have completed at least UN 3211 Int Micro and UN 3213 Int Macro. The department offers a limited number of 2000 level electives and these courses only require that students have completed Principles of Economics.

**Guidance for First-Year Students**

Our [Academic Resources Fair](#) page has answers to the most common questions of new students at Columbia. On that page you will find information about advising, placement, course planning, opportunities in the department and much more. If you are interested in pursuing economics, then it is strongly recommended that you read through the information posted here.

**Guidance for Transfer Students**

Our [Academic Resources Fair](#) page has answers to the most common questions of transfer students at Columbia. On that page you will find information about advising, placement, course planning, opportunities in the department and much more. If you are interested in pursuing economics, then it is strongly recommended that you read through the information posted here.

The [Transfer Credit](#) page has all of the information that you will need to apply for transfer credits for economics courses that you have taken elsewhere. Note that the economics department will also review your transfer credits for calculus I, statistics and accounting courses. Details about all of these courses are also posted at Transfer Credit Information.

**Undergraduate Programs of Study**

**Required Coursework for all Programs**

**Checklists and Requirements**

Checklists and Requirement information are available on the [Department website](#).

**Economics Core Courses**
All of the core courses must be completed no later than the spring semester of the student’s junior year and must be taken at Columbia. Students who take any core course during the fall semester of their senior year must obtain written permission from the department’s director of undergraduate studies. Unless otherwise specified below, all students must complete the following core courses:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ECON UN1105</td>
<td>PRINCIPLES OF ECONOMICS</td>
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<tr>
<td>ECON UN3211</td>
<td>INTERMEDIATE MICROECONOMICS</td>
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<tr>
<td>ECON UN3213</td>
<td>INTERMEDIATE MACROECONOMICS</td>
</tr>
<tr>
<td>ECON UN3412</td>
<td>INTRODUCTION TO ECONOMETRICS</td>
</tr>
</tbody>
</table>

**Prerequisites**

Course prerequisites are strictly enforced. Prerequisites must be taken before the course, not after or concurrently.

Economics courses taken before the completion of any of its prerequisites, even with instructor approval, are not counted toward the major, concentration, or interdepartmental majors. Exemptions from a prerequisite requirement may only be made, in writing, by the department’s director of undergraduate studies. Credits from a course taken prior to the completion of its prerequisites are not counted toward the major requirements. As a consequence, students are required to complete additional, specific courses in economics at the direction of the director of undergraduate studies.

The prerequisites for required courses are as follows:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>ECON UN1105</td>
<td>None</td>
</tr>
<tr>
<td>MATH UN1101</td>
<td>CALCULUS I</td>
</tr>
<tr>
<td>STAT UN1201</td>
<td>CALC-BASED INTRO TO STATISTICS</td>
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<tr>
<td>ECON UN3211</td>
<td>PRINCIPLES OF ECONOMICS</td>
</tr>
<tr>
<td>ECON UN1105</td>
<td>CALCULUS III or UN1205</td>
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<tr>
<td>ECON UN3213</td>
<td>PRINCIPLES OF ECONOMICS</td>
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<tr>
<td>MATH UN1101</td>
<td>CALCULUS I</td>
</tr>
<tr>
<td>Co-requisite: MATH UN1201 CALCULUS III or UN1205</td>
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<tr>
<td>ECON UN3412</td>
<td>CALCULARS III or UN1205</td>
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<tr>
<td>ECON UN3211</td>
<td>INTERMEDIATE MICROECONOMICS</td>
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<tr>
<td>ECON UN3213</td>
<td>INTERMEDIATE MACROECONOMICS</td>
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<tr>
<td>MATH UN2010</td>
<td>LINEAR ALGEBRA</td>
</tr>
<tr>
<td>Corequisites: MATH UN2500 ANALYSIS AND OPTIMIZATION or GU4061</td>
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<tr>
<td>ECON UN3901</td>
<td>ECONOMICS OF EDUCATION</td>
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<tr>
<td>ECON UN3952</td>
<td>MACROECONOMICS FORMATION OF EXPECTATIONS</td>
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<tr>
<td>ECON UN3981</td>
<td>Applied Econometrics</td>
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<td>ECON GU4911</td>
<td>MICROECONOMICS SEMINAR</td>
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<td>ECON GU4918</td>
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<td>ECPS GU4921</td>
<td>SEMINAR IN POLITICAL ECONOMICS</td>
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<td>ECON GU4412</td>
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<tr>
<td>ECON GU4213</td>
<td>ADVANCED MACROECONOMICS</td>
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<td>ECON GU4413</td>
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<td>ECON UN3025</td>
<td>FINANCIAL ECONOMICS</td>
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<tr>
<td>ECON GU4020</td>
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<td>ECON GU4230</td>
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<td>LINEAR ALGEBRA</td>
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</table>
ECON UN3213 INTERMEDIATE MACROECONOMICS

Students who must retake any core economics or math course may enroll in an elective course for which it is a prerequisite, provided that all other prerequisites for the elective have been completed. The same rule applies to the required math and statistics courses. For example, if a student fails ECON UN3211 INTERMEDIATE MICROECONOMICS, the student must retake it and, in the same semester, may enroll in an elective course for which it is a prerequisite, provided that all other prerequisites for the elective have been completed. The same rule applies to the required math and statistics courses. For example, if a student fails MATH UN1201 CALCULUS III, the student may retake calculus III concurrently with Intermediate Microeconomics. Students who must retake any core economics or math course may not retake it concurrently with a senior seminar; the economics core courses ECON UN3211 INTERMEDIATE MICROECONOMICS, ECON UN3213 INTERMEDIATE MACROECONOMICS, and ECON UN3412 INTRODUCTION TO ECONOMETRICS must be successfully completed before a student may enroll in a seminar.

A grade of W is not equivalent to a grade of D or F; it does not qualify a student to retake the course concurrently with a higher level course that lists the course as a prerequisite. Students who receive a grade of W in a core course must complete the course with a grade of C- or better before taking a course that lists it as a prerequisite.

Only ECON UN1105 PRINCIPLES OF ECONOMICS may be taken for a grade of Pass/D/Fail, and the student must receive a grade of P for it to count towards the requirements for the major, concentration, or interdepartmental majors.

Economics Electives

Only those courses identified in the Economics Department listings in this Bulletin may be taken for elective credit. All 3000-level or higher electives offered by the Economics Department have ECON UN3211 INTERMEDIATE MICROECONOMICS and ECON UN3213 INTERMEDIATE MACROECONOMICS as prerequisites. However, some electives have additional prerequisites and students should ensure that all prerequisites have been completed (see the table of prerequisites printed above). Seminars do not count as electives.

Seminars

Seminars can be taken only after all of the required core courses in economics have been successfully completed. Students may not take or re-take ECON UN3211 INTERMEDIATE MICROECONOMICS, ECON UN3213 INTERMEDIATE MACROECONOMICS, or ECON UN3412 INTRODUCTION TO ECONOMETRICS concurrently with any senior seminar. Seminars do not count as electives. Each seminar is limited to sixteen students, with priority given to seniors. For ECPS GU4950 ECONOMICS # PHILOSOPHY, priority is given to economics–political science and economics-philosophy majors, respectively.

For seminar registration details, read the information posted on the department’s Senior Seminar Registration page: http://econ.columbia.edu/senior-seminars-registration.

Mathematics

Students must consult with the Mathematics Department for the appropriate placement in the calculus sequence. Students must complete one of the following sequences:

Select one of the following sequences:

<table>
<thead>
<tr>
<th>MATH UN1101</th>
<th>CALCULUS I and CALCULUS III</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH UN1101</td>
<td>CALCULUS I and ACCELERATED MULTIVARIABLE CALC</td>
</tr>
<tr>
<td>MATH UN1207</td>
<td>HONORS MATHEMATICS A and HONORS MATHEMATICS B</td>
</tr>
</tbody>
</table>

In addition:

1. Students who receive a grade of D or F in MATH UN1201 CALCULUS III or MATH UN1205 must retake the course, but may enroll in ECON UN3211 INTERMEDIATE MICROECONOMICS.
2. Students who receive a grade of D or F in MATH UN1207 HONORS MATHEMATICS A may either retake the course, or take MATH UN1201 CALCULUS III or MATH UN205, and enroll in ECON UN3211 INTERMEDIATE MICROECONOMICS concurrently.

Statistics

Unless otherwise specified below, all students must take STAT UN1201 CALC-BASED INTRO TO STATISTICS, or a higher level course, such as STAT GU4204 STATISTICAL INFERENCE, or STAT GU4001.

Barnard Courses

A limited number of Barnard economics electives may count toward the major, concentration, and interdepartmental majors. Students should pay careful attention to the limit of Barnard electives indicated in their program requirements. Please see the Transfer Credit section below for information on the number of Barnard electives that may be taken to fulfill major requirements. In addition, students may receive credit for the major, concentration, and interdepartmental majors only for those Barnard economics courses listed in this Bulletin. However, students may not receive credit for two courses whose content overlaps. Barnard and Columbia economics electives with overlapping content include but are not limited to:

<table>
<thead>
<tr>
<th>ECON BC3029</th>
<th>EMPIRICAL APPROACHES DEVELOPMENT and ECONOMIC DEVELOPMENT</th>
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</thead>
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<tr>
<td>ECON BC3038</td>
<td>INTERNATIONAL APPROACHES and INTERNATIONAL TRADE</td>
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<tr>
<td>ECON BC3047</td>
<td>INTERNATIONAL TRADE</td>
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<td>ECON GU4500</td>
<td>LABOR ECONOMICS and LABOR ECONOMICS</td>
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<td>ECON GU4505</td>
<td>MACROECONOMICS</td>
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</tbody>
</table>

See the Barnard bulletin for more information on the number of Barnard electives that may be taken to fulfill major and program requirements. Please see the Transfer Credit section below for information on the number of Barnard electives that may be taken to fulfill major requirements. In addition, students may receive credit for the major, concentration, and interdepartmental majors only for those Barnard economics courses listed in this Bulletin. However, students may not receive credit for two courses whose content overlaps.
Students should always first consult with econ-advising to confirm that the Barnard elective they wish to take does not overlap with a Columbia elective that they have already taken or plan to take. Students may not take the Barnard core economics, math, statistics, or seminar courses for credit towards the completion of major requirements.

School of Professional Studies Courses

The Department of Economics does not accept any of the courses offered through the School of Professional Studies for credit towards the economics major, concentration, or interdepartmental majors with the exception of the courses offered by the Economics Department during the summer session at Columbia.

Other Department and School Courses

Please note that with the exception of the above Barnard courses and the specific courses listed below for the financial economics major, no other courses offered through the different departments and schools at Columbia count toward the economics majors or concentration.

Transfer Credits

Students are required to take a minimum number of courses in the Columbia Economics Department. For all majors and interdepartmental majors, students must complete a minimum of five lecture courses in the Columbia department. Students may fulfill their remaining requirements for economics lecture courses through AP (or IB or GCE) credits, Barnard electives, transfer courses, and study abroad courses (the latter two are subject to the approval of the Economics Department). The following table summarizes the new rules:

<table>
<thead>
<tr>
<th>Program</th>
<th>Minimum number which must be taken in the department</th>
<th>Maximum number of outside allowed</th>
<th>Number of required economics lecture courses</th>
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<tbody>
<tr>
<td>Economics major</td>
<td>5</td>
<td>4</td>
<td>9</td>
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<tr>
<td>Financial economics</td>
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<tr>
<td>Economics-mathematics</td>
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<td>Economics-political science</td>
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<td>Economics-philosophy</td>
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<td>Economics concentration</td>
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</tbody>
</table>

1. **Lecture courses** do not include seminars, which must be taken in the Columbia Economics Department. The lecture course counts are counts of economics courses only and do not include math, statistics, or courses in other departments;

2. At least two of the three 3000-level economics core courses must be taken in the department and no corresponding Barnard courses are accepted. ECON UN3025 FINANCIAL ECONOMICS and ECON UN3265 MONEY AND BANKING are counted as departmental courses regardless of the instructor;

3. **Outside courses** include AP (or IB or GCE) credits, transfer credits, Barnard 2000- and 3000-level elective courses and transfer credits from other universities. In the case where two or more courses taken outside of Columbia are used as the equivalent of ECON UN1105 PRINCIPLES OF ECONOMICS, those courses are counted as one transfer course.

4. At least one of the core finance courses, ECON UN3025 FINANCIAL ECONOMICS and ECON GU4280 CORPORATE FINANCE, must be taken at Columbia.

Approval of transfer credits to fulfill economics requirements must be obtained in writing from the Department of Economics (see the departmental website or speak with your advising dean for information regarding applications for transfer credit). Approval is granted only for courses that are considered to be comparable to those offered at Columbia.

Summer courses taken at other institutions must be approved in writing by the department’s transfer credit adviser before the course is taken. The department does not accept transfer credits for any 3000 level core courses taken during a summer session outside of Columbia University. Summer courses taken from the department of economics at Columbia University do not need approval.

Guidelines and instructions on how to request transfer credit approval can be found in the Transfer Credit Information page of the departmental website.

Major in Economics

Please read Guidelines for all for Economics Majors, Concentrators, and Interdepartmental Majors (p. 5) above. Checklists for all programs are available on our website.

The economics major requires a minimum of 35 points in economics, 6 points in mathematics, and 3 points in statistics, for a total of at least 44 points as follows:

**Economics Core Courses**

All economics core courses

**Mathematics**

Select a mathematics sequence

**Statistics**

Select a statistics course

**Economics Electives**

Select at least five electives, of which no more than one may be taken at the 2000-level (including Barnard courses)

**Economics Seminar**

Select one economics seminar course
**Major in Financial Economics**

Please read Guidelines for all for Economics Majors, Concentrators, and Interdepartmental Majors (p. 7) above.

The Department of Economics offers the major in financial economics, which provides an academic framework to explore the role of financial markets and intermediaries in the allocation (and mis-allocation) of capital. Among the topics studied in financial economics are financial markets and intermediaries in the allocation (and mis-allocation) of capital. Among the topics studied in financial economics are financial markets and intermediaries in the allocation (and mis-allocation) of capital. The financial economics major requires 26 points in economics, 6 points in finance, 3 points in statistics, 3 points in business, and 12 points from a list of selected courses for a total minimum of 50 points as follows:

**Economics Core Courses**

- All economics core courses

**Finance Core Courses**

- ECON UN3025 FINANCIAL ECONOMICS
- ECON GU4280 CORPORATE FINANCE
- BUSI UN3013 FINANCIAL ACCOUNTING

*NOTE: The department considers BUSI UN3013, IEOR E2261 and ECON UN2261 as overlapping courses. Students who take these three courses shall be credited with one course only. Financial economics majors who are also in the Business Management concentration program (CNBUMB) must take an additional elective from either the financial economics prescribed elective list (below) or from the CNBUMB prescribed list.

**Mathematics**

Select a mathematics sequence

**Statistics**

Select a statistics course

**Electives**

Select four of the following, of which two must be from the Columbia or Barnard economics departments, or equivalent economics transfer credits:

- ECON BC3014 Entrepreneurship
- ECON BC3017 Economics of Business Organization
- ECON UN3265 MONEY AND BANKING
- ECON UN3901 ECONOMICS OF EDUCATION
- ECON UN3952 MACROECONOMICS#FORMATION OF EXPECTATIONS
- ECON GU4020 ECON OF UNCERTAINTY # INFORMTN
- ECON GU4213 ADVANCED MACROECONOMICS
- ECON GU4251 INDUSTRIAL ORGANIZATION
- ECON GU4260 MARKET DESIGN
- ECON GU4412 ADVANCED ECONOMETRICS
- ECON GU4415 GAME THEORY
  or ECON BC3080 Applied Game Theory
- ECON GU4465 PUBLIC ECONOMICS
  or ECON BC3026 Economics of the Public Sector
- ECON GU4500 INTERNATIONAL TRADE
  or ECON BC3047 International Trade
- ECON GU4505 INTERNATIONAL MACROECONOMICS
  or ECON BC3038 INTERNATIONAL MONEY # FINANCE
- ECON G4526 Transition Reforms, Globalization and Financial Crisis
- ECON GU4615 LAW AND ECONOMICS
- ECON GU4630 Climate Finance

**Major in Economics-Mathematics**

Please read Guidelines for all for Economics Majors, Concentrators, and Interdepartmental Majors (p. 7) above. Checklists for all programs are available on our website.

The major in economics and mathematics provides students with a grounding in economic theory comparable to that provided by the general economics major and exposes students to rigorous and extensive training in mathematics. The program is recommended for any student planning to do graduate work in economics.

The Department of Economics has graduate student advisers with whom students may consult on economics requirements. The Department of Mathematics has an assigned adviser with whom students may consult on mathematics requirements. The economics adviser can only advise on economics requirements; the mathematics adviser can only advise on mathematics requirements.
The economics–mathematics major requires a total of 52 or 56 points (depending on mathematics sequence): 29 points in economics and 23-27 points in mathematics and statistics as follows:

**Economics Core Courses**

All economics core courses

**Economics Electives**

Select three electives at the 3000-level or above

**Mathematics**

Select one of the following sequences:

- MATH UN1101 and MATH UN1102 and MATH UN1201 and MATH UN2010
- MATH UN1101 and MATH UN1102 and MATH UN1205 and MATH UN2010
- MATH UN1101 and MATH UN1102 and MATH UN1205 and MATH UN2010
- MATH UN1207 and MATH UN1208

Note: Students who take MATH UN1205 may not receive credit for both MATH UN1201 and MATH UN1202.

Analysis requirement:

- MATH UN2500

Select three of the following:

- MATH UN1202
- MATH UN2030

Any mathematics course at the 3000-level or above

Note: Students who take MATH UN1205 will not receive credit for MATH UN1202.

**Statistics**

Select one of the following sequences:

- STAT GU4001
- STAT GU4203

Select a statistics course

- STAT GU4204

**Major in Economics-Philosophy**

Please read Guidelines for all for Economics Majors, Concentrators, and Interdepartmental Majors (p.) above. Checklists for all programs are available on our website.

Economics-philosophy is an interdisciplinary major that introduces students to basic methodologies of economics and philosophy and stresses areas of particular concern to both, e.g. rationality and decision making, justice and efficiency, freedom and collective choice, logic of empirical theories and testing. Many issues are dealt with historically. Classic texts of Plato, Kant, Mill, Marx, and Smith are reviewed.

The Department of Economics has graduate student advisers with whom students may consult on economics requirements. The Department of Philosophy has an assigned adviser with whom students may consult on philosophy requirements. The economics adviser can only advise on economics requirements; the philosophy adviser can only advise on philosophy requirements.

The economics-philosophy major requires a total minimum of 54 points: 25 points in economics, 16 points in philosophy, 6 points in mathematics, 3 points in statistics, and 4 points in the interdisciplinary seminar as follows:

**Economics Core Courses**

ECON UN1105, INTERMEDIATE MICROECONOMICS
ECON UN3211, INTERMEDIATE MACROECONOMICS
ECON UN3412, INTRODUCTION TO ECONOMETRICS

**Mathematics**

Select a mathematics sequence

**Statistics**

Select a statistics course

**Economics Electives**

Three Electives are required; two must be selected from the below list, and the remaining elective may be any economics elective at the 3000-level or above.

- ECON GU4020, ECON OF UNCERTAINTY # INFORMTN
- ECON UN3901, ECONOMICS OF EDUCATION
- ECON GU4211, ADVANCED MICROECONOMICS
- ECON GU4213, ADVANCED MACROECONOMICS
- ECON GU4228, Urban Economics
- ECON GU4230, ECONOMICS OF NEW YORK CITY
- ECON GU4235, HISTORICAL FOUNDATIONS OF MODERN ECONOMICS: Adam Smith to J M Keynes
- or ECON BC3041, THEORETICAL FOUNDATIONS-POLIT ECON
- ECON GU4250, MARKET DESIGN
- ECON GU4301, ECONOMIC GROWTH # DEVELOPMNT I
- ECON GU4321, ECONOMIC DEVELOPMENT
- or ECON BC3029, EMPIRICAL APPROACHES DEVLPMNT
- ECON GU4370, POLITICAL ECONOMY
- ECON GU4400, LABOR ECONOMICS
- or ECON BC3019, LABOR ECONOMICS
- ECON GU4415, GAME THEORY
- or ECON BC3080, Applied Game Theory
- ECON GU4438, ECONOMICS OF RACE IN THE U.S.
- ECON GU4465, PUBLIC ECONOMICS
- or ECON BC3026, Economics of the Public Sector
- ECON GU4480, GENDER # APPLIED ECONOMICS
- ECON GU4500, INTERNATIONAL TRADE
- or ECON BC3047, International Trade
- ECON GU4615, LAW AND ECONOMICS
- ECON GU4625, Economics of the Environment
- or ECON BC3039, Environmental and Natural Resource Economics
- ECON GU4630, Climate Finance
- ECON GU4750, GLOBALIZATION # ITS RISKS
- ECON GU4840, BEHAVIORAL ECONOMICS
or ECON BC3048  Introduction to Behavioral Economics
ECON GU4850  COGNITIVE MECH # ECON BEHAVIOR
ECON BC3011  INEQUALITY AND POVERTY

Philosophy Courses
PHIL UN1010  METHODS/PROB OF PHILOS THOUGHT
PHIL UN3411  SYMBOLIC LOGIC
PHIL UN3701  ETHICS
PHIL UN3551  PHILOSOPHY OF SCIENCE
or PHIL UN3960  EPISTEMOLOGY
PHIL GU4561  PROBABILITY # DECISION THEORY

Seminar
ECPS GU4950  ECONOMICS # PHILOSOPHY

Students who declared before Spring 2014: The requirements for this program were modified in 2014. Students who declared this program before Spring 2014 should contact the director of undergraduate studies for the department in order to confirm their options for major requirements.

Major in Economics–Political Science

Please read Guidelines for all for Economics Majors, Concentrators, and Interdepartmental Majors (p.  ) above. Checklists for all programs are available on our website.

Political economy is an interdisciplinary major that introduces students to the methodologies of economics and political science and stresses areas of particular concern to both. This program is particularly beneficial to students planning to do graduate work in schools of public policy and international affairs.

The Department of Economics has graduate student advisers with whom students may consult on economics requirements. The Department of Political Science has an assigned adviser with whom students may consult on political science requirements. The economics adviser can only advise on economics requirements; the political science adviser can only advise on political science requirements.

The economics–political science major requires a total of 59 points: 22 points in economics, 17 points in political science, 6 points in mathematics, 6 points in statistical methods, 4 points in a political science seminar, and 4 points in the interdisciplinary seminar as follows.

The political science courses are grouped into four areas, i.e. subfields: (1) American Politics, (2) Comparative Politics, (3) International Relations, and (4) Political Theory. For the political science part of the major, students are required to select one area as a major subfield and one as a minor subfield. The corresponding introductory courses in both subfields must be taken, plus two electives in the major subfield, and one in the minor subfield.

Economics Core Courses
ECON UN1105  PRINCIPLES OF ECONOMICS
ECON UN3211  INTERMEDIATE MICROECONOMICS
ECON UN3213  INTERMEDIATE MACROECONOMICS
ECON GU4370  POLITICAL ECONOMY

Mathematics
Select a mathematics sequence

Statistical Methods
STAT UN1201  CALC-BASED INTRO TO STATISTICS

Select one of the following:
ECON UN3412  INTRODUCTION TO ECONOMETRICS
POLS GU4712  PRINC OF QUANT POL RESEARCH 2

Economics Electives
Select two electives (6 points) at the 3000-level or above

Political Science Courses
Students must choose a Primary Subfield and a Secondary Subfield to study. The subfields are as follows: American Politics (AP), Comparative Politics (CP), International Relations (IR), and Political Theory (PT).

Primary Subfield: Minimum three courses, one of which must be the subfield’s introductory course.

Secondary Subfield: Minimum two courses, one of which must be the subfield’s introductory course.

Seminars
Students must take the following two seminars:
ECPS GU4921  SEMINAR IN POLITICAL ECONOMICS
and a Political Science Department seminar, in the student’s Primary Subfield. Please select one of the following: *
POLS UN3911  SEMINAR IN POLITICAL THEORY
or POLS UN3912  SEMINAR IN POLITICAL THEORY
POLS UN3921  AMERICAN POLITICS SEMINAR
or POLS UN3922  AMERICAN POLITICS SEMINAR
POLS UN3951  COMPARATIVE POLITICS SEMINAR
or POLS UN3952  Seminar in Comparative Politics
POLS UN3961  INTERNATIONAL POLITICS SEMINAR
or POLS UN3962  INTERNATIONAL POLITICS SEMINAR

• Students who wish to count toward the political science seminar requirement a course that is not in the above list of approved seminars must obtain permission from the political science Director of Undergraduate studies. Barnard colloquia can count for seminar credit only with the written permission of the Director of Undergraduate Studies. Note that admission to Barnard colloquia is by application to the Barnard political science department only.

Major in Economics-Statistics

Please read Guidelines for all for Economics Majors, Concentrators, and Interdepartmental Majors (p.  ) above. Checklists for all programs are available on our website.

The major in economics-statistics provides students with a grounding in economic theory comparable to that provided by the general economics major, but also exposes students to a significantly more rigorous and extensive statistics training than is provided by the general major. This program is recommended for students with strong quantitative skills and for those contemplating graduate studies in economics.

The Department of Economics has graduate student advisers with whom students may consult on economics requirements. The Department of Statistics has an assigned adviser with whom students may consult on statistics requirements. The economics adviser can only advise on economics requirements; the statistics adviser can only advise on statistics requirements.

The economics-statistics major requires a total of 59 points: 29 in economics, 15 points in statistics, 12 points in mathematics, 3 points in computer science as follows:

Economics Core Courses
All economics core courses
Economics Electives
Select three electives at the 3000-level or above

Mathematics
Select one of the following sequences:

- MATH UN1101 and MATH UN1102 and MATH UN1201 and MATH UN2010
- MATH UN1101 and MATH UN1102 and MATH UN1201 and ACCELERATED MULTIVARIABLE
- MATH UN1101 and MATH UN1102 and MATH UN1201 and LINEAR ALGEBRA
- MATH UN1207 and MATH UN1208 and HONORS MATHEMATICS A and HONORS MATHEMATICS B

Statistics
- STAT UN1201 and CALC-BASED INTRO TO STATISTICS
- STAT GU4203 and PROBABILITY THEORY
- STAT GU4204 and STATISTICAL INFERENCE
- STAT GU4205 and LINEAR REGRESSION MODELS

One elective in statistics from among courses numbered STAT GU 4206 through GU 4266.

Computer Science
Select one of the following:

- COMS W1004 Introduction to Computer Science and Programming in Java
- COMS W1005 Introduction to Computer Science and Programming in MATLAB
- ENGI E1006 INTRO TO COMP FOR ENG/APP SCI
- STAT UN2102 Applied Statistical Computing

Economics Seminar
- ECON GU4918 SEMINAR IN ECONOMETRICS

Students who declared before Spring 2014: The requirements for this program were modified in 2014. Students who declared this program before Spring 2014 should contact the director of undergraduate studies for the department in order to confirm their options for major requirements.

For students who entered Columbia in or before the 2023-24 academic year

Concentration in Economics
Please read Guidelines for all for Economics Majors, Concentrators, and Interdepartmental Majors above. Checklists for all programs are available on our website.

The economics concentration requires a minimum of 25 points in economics, 6 points in mathematics, and 3 points in statistics, for a total of at least 34 points as follows:

Economics Core Courses
All economics core courses

Mathematics
Select a mathematics sequence

Statistics
Select a Statistics course

Economics Electives
Select at least three electives, of which no more than one may be taken at the 2000-level (including Barnard courses)

Economics Core Courses

ECON UN1105 PRINCIPLES OF ECONOMICS. 4.00 points.
Corequisites: ECON UN1155
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.

Spring 2024: ECON UN1105
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
--- | --- | --- | --- | --- | ---
001/13904 | M W 8:40am - 9:55am | 501 Schermerhorn Hall | Sunil Gulati | 4.00 | 175/210
002/13905 | T Th 2:40pm - 3:55pm | 301 Urs Hall | Waseem Noor | 4.00 | 180/210
003/13906 | T Th 1:10pm - 2:25pm | 301 Urs Hall | Brendan O'Flaherty | 4.00 | 128/189

Fall 2024: ECON UN1105
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
--- | --- | --- | --- | --- | ---
001/10846 | M W 8:40am - 9:55am | 501 Schermerhorn Hall | Sunil Gulati | 4.00 | 86/220
002/10847 | T Th 2:40pm - 3:55pm | 301 Urs Hall | Waseem Noor | 4.00 | 123/189
003/10848 | M W 11:40am - 12:55pm | 301 Urs Hall | Isaac Bjorke | 4.00 | 135/200

ECON UN3211 INTERMEDIATE MICROECONOMICS. 4.00 points.
Prerequisites: ECON UN1105 and MATH UN1101 and (MATH UN1201 or MATH UN1207)
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

Spring 2024: ECON UN3211
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
--- | --- | --- | --- | --- | ---
001/13918 | T Th 4:10pm - 5:25pm | 310 Fayerweather | Murat Yilmaz | 4.00 | 75/96
002/13920 | M W 11:40am - 12:55pm | 310 Fayerweather | Isaac Bjorje | 4.00 | 93/96
003/13924 | M W 11:40am - 12:55pm | 310 Fayerweather | Isaac Bjorje | 4.00 | 95/96
004/13926 | T Th 11:40am - 12:55pm | 310 Fayerweather | Caterina Musaati | 4.00 | 72/96

Fall 2024: ECON UN3211
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
--- | --- | --- | --- | --- | ---
001/10851 | M W 11:40am - 12:55pm | 614 Schermerhorn Hall | Susan Elmes | 4.00 | 110/110
002/11065 | T Th 1:10pm - 2:25pm | 209 Havemeyer Hall | | 4.00 | 110/110
003/10852 | T Th 6:10pm - 7:25pm | 310 Fayerweather | | 4.00 | 70/96
ECON UN3213 INTERMEDIATE MACROECONOMICS. 4.00 points.
Prerequisites: (MATH UN1101 or MATH UN1207) and ECON UN1105 or the equivalent.
Corequisites: MATH UN1201
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.

ECON UN3412 INTRODUCTION TO ECONOMETRICS. 4.00 points.
Prerequisites: (ECON UN3211 or ECON UN3213) and (MATH UN1201 or MATH UN1207) and STAT UN1201
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 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.

ECON UN2105 THE AMERICAN ECONOMY. 3.00 points.
Prerequisites: ECON UN1105
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.

ECON UN2257 THE GLOBAL ECONOMY. 3.00 points.
Prerequisites: ECON UN1105
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.

ECON UN3025 FINANCIAL ECONOMICS. 3.00 points.
Prerequisites: ECON UN3211 and ECON UN3213 and STAT UN1201
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.
ECON UN3901 ECONOMICS OF EDUCATION. 3.00 points.
Prerequisites: (econ un3211 and econ un3213 and econ un3412)
Prerequisites: (econ un3211 and econ un3213 and econ un3412) Course objective: This course has two objectives: (1) To develop students' skills in research and writing. Specifically, participants will work on: formulating a research question, placing it in the context of an existing literature and/or policy area, and using economic and econometric tools to address it in writing. Specifically, in the first part of the class, readings, problem sets, and a midterm exam will build skills in these areas. In the second part, students will come up with a research question, and address it in a research proposal/report. While all the applications will be on the economics of education, these skills will be useful in students' subsequent careers, regardless of the area of economics they focus on. (2) To provide an introduction to key issues in the economics of education. Specifically, education is a significant industry every person entering this course will have already spent years in this industry as a customer, as a worker, as an input, or all of the above. The course will address questions like: What does economics have to say about how this industry is organized and what determines its output? Why do individuals invest in education? What determines the behavior, productivity, and reputation of rms in the industry? What role should government and public policy (if any) play in its operation?

ECON UN3952 MACROECONOMICS#FORMATION OF EXPECTATIONS. 3.00 points.
Prerequisites: ECON UN3211 and ECON UN3213 and ECON UN3412
Prerequisites: ECON UN3211 and ECON UN3213 and ECON UN3412 This course has two main objectives: To introduce students to the process of writing a research paper. This includes identifying and formulating a research question, reviewing the previous literature and positioning the problem in that context, identifying the proper tools and data to answer the question, and finally writing the findings in the format of a research paper. An immediate goal is to prepare the students to undertake a senior thesis project. To provide an introduction to selected topics and survey evidence in macroeconomics, with a focus on the expectation formation process of economic agents. We will start by going through some canonical models that are widely used for economic and policy analysis to understand the role of expectations in the decision making of households and firms. We will then go through a series of survey data and relate the empirical evidence to the theoretical predictions of those canonical models

ECON UN3981 Applied Econometrics. 3 points.
Prerequisites: ECON UN3211 and ECON UN3213 and ECON UN3412
The objective of this course is to develop students' research skills and to learn the process of writing an original research paper. The skills and process include the ability to identify a problem and state in a concise manner, literature review, data collection, model formulation and estimation, evaluation of the problem and writing up the findings in a format of a research paper. An immediate and more specific goal is to prepare students to tackle a senior thesis project.

Towards this goal, this course will review or introduce the most widely used econometric techniques for empirical research. These include multiple regressions, probit and logit models, instrumental variables methods, panel data methods, regression discontinuity designs. This course will also introduce some time series methods such as vector autoregressive process, cointegration analysis, financial time series, and modeling of volatilities. Students will need to practice these methods with a computer software package (R or STATA) and with actual economic data sets.

ECON GU4020 ECON OF UNCERTAINTY # INFORMTN. 3.00 points.
Prerequisites: ECON UN3211 and ECON UN3213 and STAT UN1201
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

Spring 2024: ECON GU4020

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<td>M W 4:10pm - 5:25pm</td>
<td>Ingmar Nyman</td>
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ECON GU4211 ADVANCED MICROECONOMICS. 4.00 points.
Prerequisites: ECON UN3211 and ECON UN3213 and MATH UN2010
Students must register for required discussion section.
Corequisites: MATH UN2500, MATH GU4061
Prerequisites: ECON UN3211 and ECON UN3213 and MATH UN2010
Students must register for required discussion section. Corequisites: MATH UN2500 or 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 2024: ECON GU4211

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<td>Susan Elmes</td>
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ECON GU4213 ADVANCED MACROECONOMICS. 4.00 points.
Prerequisites: ECON UN3211 and ECON UN3213 and ECON UN3412 and MATH UN2010 Required discussion section ECON GU4214
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 2024: ECON GU4213

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<td>Haeran Afrozzi Khoosteshahi</td>
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ECON GU4228 Urban Economics. 3 points.
Prerequisites: ECON UN3211 and ECON UN3213
ECON GU4230 ECONOMICS OF NEW YORK CITY. 3.00 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 2024: ECON GU4230
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
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ECON 4230 | 001/13960 | T Th 10:10am - 11:25am | Donald Davis | 3.00 | 41/110

ECON GU4251 INDUSTRIAL ORGANIZATION. 3.00 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.

Spring 2024: ECON GU4251
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
--- | --- | --- | --- | --- | ---
ECON 4251 | 001/13962 | T Th 10:10am - 11:25am | Pietro Tebaldi | 3.00 | 48/86

Fall 2024: ECON GU4251
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
--- | --- | --- | --- | --- | ---
ECON 4251 | 001/10863 | M W 4:10pm - 5:25pm | Gautam Gowrisankaran | 3.00 | 71/86

ECON GU4260 MARKET DESIGN. 3.00 points.
Prerequisites: ECON UN3211 and ECON UN3213 and STAT UN1201
This course uses modern microeconomic tools for understanding markets for indivisible resources and exploring ways to improve their design in terms of stability, efficiency and incentives. Lessons of market design will be applied to developing internet platforms for intermediating exchanges, for auctions to allocate sponsored search advertising, to allocate property rights such as public lands, radio spectrums, fishing rights, for assigning students to public schools, and for developing efficient kidney exchanges for transplantation.

Spring 2024: ECON GU4260
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
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ECON 4260 | 001/13964 | T Th 11:40am - 12:55pm | Murat Yilmaz | 3.00 | 51/86

Fall 2024: ECON GU4260
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
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ECON 4260 | 001/10864 | M W 2:40pm - 3:55pm | YeonKoo Che | 3.00 | 79/86

ECON GU4280 CORPORATE FINANCE. 3.00 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

Spring 2024: ECON GU4280
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
--- | --- | --- | --- | --- | ---
ECON 4280 | 001/13967 | M W 11:40am - 12:55pm | Haran Ssegam | 3.00 | 77/75

Fall 2024: ECON GU4280
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
--- | --- | --- | --- | --- | ---
ECON 4280 | 002/13969 | T Th 4:10pm - 5:25pm | Tri Vi Dang | 3.00 | 83/90

ECON GU4301 ECONOMIC GROWTH # DEVELOPMNT I. 3.00 points.
Prerequisites: ECON UN3211 and ECON UN3213.
Economic development is a complex and multifaceted process. Once considered a goal in itself, more recently it has become to be viewed as the fundamental means to world poverty alleviation. Today, about half of the world population still lives on less than $2/day. Why? What does it mean to be poor? What are the forces that prevent so many people from enjoying a higher standard of living? The course opens on some fundamental macroeconomic literature that sheds light on the lives of the poor and on the forces - in particular the market distortions and the market failures - that keep billions in poverty. Among others, we will discuss interesting topics like nutrition and health, the cultural origins of corruption, the effect of global warming, and the design of effective anti-poverty programs.

Fall 2024: ECON GU4301
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
--- | --- | --- | --- | --- | ---
ECON 4301 | 001/15876 | M W 11:40am - 12:55pm | Nuria Quella | 3.00 | 4/86

ECON GU4321 ECONOMIC DEVELOPMENT. 3.00 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.

Fall 2024: ECON GU4321
Course Number | Section/Call Number | Times/Location | Instructor | Points | Enrollment
--- | --- | --- | --- | --- | ---
ECON 4321 | 001/10931 | T Th 1:10pm - 2:25pm | Jack Willis | 3.00 | 64/86
ECON GU4325 ECONOMIC DEVELOPMENT OF JAPAN. 3.00 points. 
CC/GS/SEAS: Partial Fulfillment of Global Core Requirement

Prerequisites: ECON UN3211 and ECON UN3213
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

ECON GU4370 POLITICAL ECONOMY. 3.00 points.
Prerequisites: ECON UN3211 and ECON UN3213 and STAT UN1201 or POLS 4710 for those who declared prior to Spring 2014.
The objective of this course is to develop understanding of how political institutions and behavior shape economic outcomes, and vice versa. Starting from the micro level study of political behavior, we will build up to analyze the internal workings of institutions and ultimately macro level economic and political outcomes. During the course we will cover the following topics • Limits and potential of markets • Public goods provision • Voting • Redistribution

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<td>ECON 4370</td>
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<td>Alessandra Casella</td>
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ECON GU4400 LABOR ECONOMICS. 3.00 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. 4.00 points.
Prerequisites: ECON UN3211 and ECON UN3213 and ECON UN3412 and MATH UN2010 Students must register for required discussion section.
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

ECON GU4413 Econometrics of Time Series and Forecasting. 3 points.
Prerequisites: ECON UN3211 and ECON UN3213 and ECON UN3412
Corequisites: MATH UN2010
This course focuses on the application of econometric methods to time series data; such data is common in the testing of macro and financial economics models. It will focus on the application of these methods to data problems in macro and finance.

ECON GU4415 GAME THEORY. 3.00 points.
Prerequisites: ECON UN3211 and ECON UN3213
Prerequisites: ECON UN3211 and ECON UN3213
Introduction to the systematic treatment of game theory and its applications in economic analysis

Spring 2024: ECON GU4415
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<td>ECON 4415</td>
<td>001/13976</td>
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<td>Evan Sadler</td>
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Fall 2024: ECON GU4415
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<td>ECON 4415</td>
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<td>Murat Yilmaz</td>
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ECON GU4438 ECONOMICS OF RACE IN THE U.S.. 3.00 points.
Prerequisites: ECON UN3211 and ECON UN3213 ECON GU4400 is strongly recommended.
Prerequisites: ECON UN3211 and ECON UN3213 ECON GU4400 is strongly recommended. What differences does race make in the U.S. economy? Why does it make these differences? Are these differences things we should be concerned about? If so, what should be done? The course examines labor markets, housing markets, capital markets, crime, education, and the links among these markets. Both empirical and theoretical contributions are studied

Fall 2024: ECON GU4438
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ECON GU4465 PUBLIC ECONOMICS. 3.00 points.
Prerequisites: ECON UN3211 and ECON UN3213
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

Spring 2024: ECON GU4465
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<td>Timothy Godspeed</td>
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Fall 2024: ECON GU4465
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<td>Wojciech Kopczuk</td>
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ECON GU4480 GENDER # APPLIED ECONOMICS. 3.00 points.
Prerequisites: ECON UN3211 and ECON UN3213
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 2024: ECON GU4480
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<td>Lena Edlund</td>
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ECON GU4500 INTERNATIONAL TRADE. 3.00 points.
Prerequisites: ECON UN3211 and ECON UN3213
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 2024: ECON GU4500
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<td>Waseem Noor</td>
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ECON GU4505 INTERNATIONAL MACROECONOMICS. 3.00 points.
Prerequisites: ECON UN3211 and ECON UN3213
Prerequisites: ECON UN3211 and ECON UN3213. Econ GU4505 is an elective in the economics major. The course develops models for the analysis of the determinants of international capital flows, trade imbalances, and exchange rates. The models are then used as the basis for the discussion of topics such as Global Imbalances, Uncertainty and the Current Account, The Global Saving Glut, Purchasing Power Parity, Sudden Stops, Real Exchange Rates and Productivity, Covered Interest Rate Parity, Uncovered Interest Rate Parity, Borrowing Externalities and Optimal Capital Controls, Overborrowing, Macroeconomic Adjustment under Flexible and Fixed Exchange Rates, Twin Deficits, and Balance of Payment Crises

Spring 2024: ECON GU4505
Course Number  Section/Call Number  Times/Location  Instructor  Points  Enrollment
ECON 4505  001/13977  M W 8:40am - 9:55am  516 Hamilton Hall  Martin Uribe  3.00  9/54

ECON GU4615 LAW AND ECONOMICS. 3.00 points.
ECON GU4625 Economics of the Environment. 3 points.
Not offered during 2023-2024 academic year.

Prerequisites: ECON UN3211 and UN3213.
Microeconomics is used to study who has an incentive to protect the environment. Government’s possible and actual role in protecting the environment is explored. How do technological change, economic development, and free trade affect the environment? Emphasis on hypothesis testing and quantitative analysis of real-world policy issues.

ECON GU4630 Climate Finance. 3.00 points.
In lieu of the failure of legislatures to pass comprehensive carbon taxes, there is growing pressure on the financial system to address the risks of global warming. One set of pressures is to account for the heightened physical risks due to extreme weather events and potential climate tipping points. Another set of pressures are to find approaches to incentivize corporations to meet the goals set out in the Paris Treaty of 2015. These approaches include (1) mandates or restrictions to only hold companies with decarbonization plans, (2) development of negative emissions technologies such as direct-air capture and (3) promotion of natural capital markets that can be used to offset carbon emissions. Moreover, financial markets also provide crucial information on expectations and plans of economic agents regarding climate change. This course will cover both models and empirical methodologies that are necessary to assess the role of the financial system in addressing global warming.

Spring 2024: ECON GU4630
Course Number  Section/Call Number  Times/Location  Instructor  Points  Enrollment
ECON 4630  001/13980  M W 1:10pm - 2:25pm  517 Hamilton Hall  Jose Scheinkman, Harrison Hong  3.00  56/86

ECON GU4710 FINANCE AND THE REAL ECONOMY. 3.00 points.
Prerequisites: (Econ UN3211) and (ECON UN3213) and (STAT UN1201)
This course uses economic theory and empirical evidence to study the links between financial markets and the real economy. We will consider questions such as: What is the welfare role of finance? How do financial markets affect consumers and firms? How do shocks to the financial system transmit to the real economy? How do financial markets impact inequality?

Spring 2024: ECON GU4710
Course Number  Section/Call Number  Times/Location  Instructor  Points  Enrollment
ECON 4710  001/13981  T Th 8:40am - 9:55am  517 Hamilton Hall  Matthieu Gomez  3.00  33/86

ECON GU4750 GLOBALIZATION # ITS RISKS. 3.00 points.
Prerequisites: ECON UN3211 and ECON UN3213
ECON GU4750 GLOBALIZATION # ITS RISKS. 3.00 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 Breton Woods Institutions, including the creation of a Knowledge Bank and an International Bank for Environmental Settlements

Spring 2024: ECON GU4750
Course Number  Section/Call Number  Times/Location  Instructor  Points  Enrollment
ECON 4750  001/13982  M W 5:40pm - 6:55pm  517 Hamilton Hall  Graciela Chichilnisky  3.00  76/86

ECON GU4700 FINANCIAL CRISIS. 3.00 points.
Prerequisites: ECON UN3211 and ECON UN3213 and STAT UN1201
This course uses economic theory and empirical evidence to study the causes of financial crises and the effectiveness of policy responses to these crises. Particular attention will be given to some of the major economic and financial crises in the past century and to the crisis that began in August 2007.
ECON GU4840 BEHAVIORAL ECONOMICS. 3.00 points.
Prerequisites: ECON UN3211 and ECON UN3213
Prerequisites: ECON UN3211 and ECON UN3213 Within economics, the standard model of behavior is that of a perfectly rational, self interested utility maximizer with unlimited cognitive resources. In many cases, this provides a good approximation to the types of behavior that economists are interested in. However, over the past 30 years, experimental and behavioral economists have documented ways in which the standard model is not just wrong, but is wrong in ways that are important for economic outcomes. Understanding these behaviors, and their implications, is one of the most exciting areas of current economic inquiry. The aim of this course is to provide a grounding in the main areas of study within behavioral economics, including temptation and self control, fairness and reciprocity, reference dependence, bounded rationality and choice under risk and uncertainty. For each area we will study three things: 1. The evidence that indicates that the standard economic model is missing some important behavior 2. The models that have been develop to capture these behaviors 3. Applications of these models to (for example) finance, labor and development economics As well as the standard lectures, homework assignments, exams and so on, you will be asked to participate in economic experiments, the data from which will be used to illustrate some of the principals in the course. There will also be a certain small degree of classroom ‘flipping’, with a portion of many lectures given over to group problem solving. Finally, an integral part of the course will be a research proposal that you must complete by the end of the course, outlining a novel piece of research that you would be interested in doing

Spring 2024: ECON GU4840

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<td>M W 2:40pm - 3:55pm 142 Uris Hall</td>
<td>Mark Dean</td>
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ECON GU4850 COGNITIVE MECH # ECON BEHAVIOR. 4.00 points.
Prerequisites: ECON UN3211 and ECON UN3213 and STAT UN1201
Prerequisites: ECON UN3211 and ECON UN3213 and STAT UN1201 Standard economic theory seeks to explain human behavior (especially in economic settings, such as markets) in terms of rational choice, which means that the choices that are made can be predicted on the basis of what would best serve some coherent objective, under an objectively correct understanding of the predictable consequences of alternative actions. Observed behavior often seems difficult to reconcile with a strong form of this theory, even if incentives clearly have some influence on behavior; and the course will discuss empirical evidence (both from laboratory experiments and observations in the field) for some well-established anomalies. But beyond simply cataloguing anomalies for the standard theory, the course will consider the extent to which departures from a strong version of rational choice theory can be understood as reflecting cognitive processes that are also evident in other domains such as sensory perception; examples from visual perception will receive particular attention. And in addition to describing what is known about how the underlying mechanisms work (something that is understood in more detail in sensory contexts than in the case of value-based decision making), the course will consider the extent to which such mechanisms — while suboptimal from a normative standpoint that treats perfect knowledge of one’s situation as costless and automatic — might actually represent efficient uses of the limited information and bounded information-processing resources available to actual people (or other organisms). Thus the course will consider both ways in which the realism of economic analysis may be improved by taking into account cognitive processes, and ways in which understanding of cognitive processes might be advanced by considering the economic problem of efficient use of limited (cognitive) resources

ECON GU4860 BEHAVIORAL FINANCE. 3.00 points.
Prerequisites: ECON UN3211 and ECON UN3213 and ECON UN3412
Prerequisites: ECON UN3211 and ECON UN3213 and ECON UN3412 Neoclassical finance theory seeks to explain financial market valuations and fluctuations in terms of investors having rational expectations and being able to trade without costs. Under these assumptions, markets are efficient in that stocks and other assets are always priced just right. The efficient markets hypothesis (EMH) has had an enormous influence over the past 50 years on the financial industry, from pricing to financial innovations, and on policy makers, from how markets are regulated to how monetary policy is set. But there was very little in prevailing EMH models to suggest the instabilities associated with the Financial Crisis of 2008 and indeed with earlier crises in financial market history. This course seeks to develop a set of tools to build a more robust model of financial markets that can account for a wider range of outcomes. It is based on an ongoing research agenda loosely dubbed "Behavioral Finance", which seeks to incorporate more realistic assumptions concerning human rationality and market imperfections into finance models. Broadly, we show in this course that limitations of human rationality can lead to bubbles and busts such as the Internet Bubble of the mid-1990s and the Housing Bubble of the mid-2000s; that imperfections of markets — such as the difficulty of short-selling assets — can cause financial markets to undergo sudden and unpredictable crashes; and that agency problems or the problems of institutions can create instabilities in the financial system as recently occurred during the 2008 Financial Crisis. These instabilities in turn can have feedback effects to the performance of the real economy in the form of corporate investments
Economics Senior Seminars

ECON GU4911 MICROECONOMICS SEMINAR. 4.00 points.
Prerequisites: ECON UN3211 and ECON UN3213 and ECON UN3412
Registration information is posted on the department’s Seminar Sign-up webpage.
Prerequisites: ECON UN3211 and ECON UN3213 and ECON UN3412
Selected topics in microeconomics

Spring 2024: ECON GU4911

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<td>Susan Elmes</td>
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Fall 2024: ECON GU4911

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ECON GU4918 SEMINAR IN ECONOMETRICS. 4.00 points.
Prerequisites: ECON UN3211 and ECON UN3213 and ECON UN3412
Registration information is posted on the department’s Seminar Sign-up webpage.
Prerequisites: ECON UN3211 and ECON UN3213 and ECON UN3412
Registration information is posted on the departments Seminar Sign-up webpage. Selected topics in macroeconomics. Selected topics will be posted on the departments webpage.

Spring 2024: ECON GU4913

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<td>Richard Clarida</td>
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Fall 2024: ECON GU4913

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ECON GU4918 MACROECONOMICS SEMINAR. 4.00 points.
Prerequisites: ECON UN3211 and ECON UN3213 and ECON UN3412
Registration information is posted on the department’s Seminar Sign-up webpage.
Prerequisites: ECON UN3211 and ECON UN3213 and ECON UN3412
Registration information is posted on the departments Seminar Sign-up webpage. Analyzing data in a more in-depth fashion than in ECON UN3412. Additional estimation techniques include limited dependent variable and simultaneous equation models. Go to the departments undergraduate Seminar Description webpage for a detailed description.

Spring 2024: ECON GU4918

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</table>
ECPS GU4921 SEMINAR IN POLITICAL ECONOMICS. 4.00 points.
Priority is given to economics-political science majors who are in their senior year, but any available space is open to students who have taken the elective course in political economy.

Prerequisites: ECON W3211, W3213, W3412 (or POLS 4711), W4370.
Registration information is posted on the department’s Seminar Sign-up webpage.
Prerequisites: ECON W3211, W3213, W3412 (or POLS 4711), W4370.
Registration information is posted on the departments Seminar Sign-up webpage. Required for majors in the joint program between political science and economics. Provides a forum in which students can integrate the economics and political science approach to political economy. The theoretical tools learned in political economy are applied: the analysis of a historical episode and the empirical relation between income distribution and politics on one side and growth on the other side.

ECON GU4995 SENIOR HONORS THESIS WORKSHOP. 3.00 points.
3 points per semester.
Prerequisites: ECON UN3211 and ECON UN3213 and ECON UN3412 and the director of the departmental honors program’s permission. Students must have a minimum GPA of 3.7 in all required major courses, including calculus and statistics, prior to enrollment.
Prerequisites: ECON UN3211 and ECON UN3213 and ECON UN3412 and the director of the departmental honors programs permission. Students must have a minimum GPA of 3.7 in all required major courses, including calculus and statistics, prior to enrollment. The honors thesis seminar is a year-long course, beginning in the fall semester and ending in the spring semester. Students who have been approved to enter the workshop will be registered for both semesters by the department during the first two weeks of classes; 3 points are earned per semester. This workshop may only be taken by students applying for departmental honors, and it also fulfills the economics seminar requirement for the economics major and all joint majors. Students must see the director during mid-semester registration in the spring to discuss their proposed thesis topic, at which time they will be matched with appropriate faculty who will act as their thesis adviser. Students will meet their adviser over the course of the year at mutually agreed upon times. A rough draft of the thesis will be due during the first week of February in the spring semester, and the final draft will be due three weeks before the last day of classes. Please note that for those joint majors that require two seminars, one in economics and one in the other discipline (i.e. Political Science), the economics senior honors thesis seminar only fulfills the economics seminar requirement.

ECPS GU4950 ECONOMICS # PHILOSOPHY. 4.00 points.
Open only to economics-philosophy majors who are in their senior year.

Prerequisites: ECON W3211, ECON W3213, ECON W3412. Students will be contacted by the Economics department for pre-enrollment.
Prerequisites: ECON W3211, ECON W3213, ECON W3412. Students will be contacted by the Economics department for pre-enrollment. Explores topics in the philosophy of economics such as welfare, social choice, and the history of political economy. Sometimes the emphasis is primarily historical and sometimes on analysis of contemporary economic concepts and theories.

Other

ECON UN2029 FED CHALLENGE WORKSHOP. 1.00 point.
Prerequisites: (ECON UN1105)
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.

ECON GU4995 RESEARCH COURSE. 1.00 point.
Prerequisites: ECON GU4995
Prerequisites: ECON GU4995 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.
ECON GU4996 RESEARCH COURSE. 1.00-2.00 points.
Prerequisites: the director of undergraduate studies 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. A list of available research positions is distributed each semester on the major listserv.

Spring 2024: ECON GU4996

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Fall 2024: ECON GU4996

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ECON GU4998 SUPERVISED INDEPENDENT STUDY. 1.00-4.00 points.
Prerequisites: the director of undergraduate studies permission.

Spring 2024: ECON GU4998

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Of Related Interest

Note: Barnard economic core courses (ECON BC1003, ECON BC1007, ECON BC2411, ECON BC3018, ECON BC3033, ECON BC3035) and seminars do not count towards the Columbia economics major and concentration.

Economics (Barnard)

ECON BC2010  The Economics of Gender
ECON BC2012  Economic History of Western Europe
ECON BC2017  INTRODUCTION TO HEALTH ECONOMICS
ECON BC2020  Introduction to Development Economics
ECON BC2224  CODING MARKETS
ECON BC2075  Logic and Limits of Economic Justice
ECON BC3027  Economics of Inequality
ECON BC3010  American Wellbeing
ECON BC3011  INEQUALITY AND POVERTY
ECON BC3012  THE ECONOMICS OF EDUCATION
ECON BC3013  Economic History of the United States
ECON BC3014  Entrepreneurship
ECON BC3017  Economics of Business Organization
ECON BC3019  LABOR ECONOMICS
ECON BC3022  Economic History of Europe
ECON BC3023  Topics in Economic History
ECON BC3024  MIGRATION # ECONOMIC CHANGE
ECON UN3025  FINANCIAL ECONOMICS
ECON BC3026  Economics of the Public Sector
ECON BC3029  EMPirical APPROACHES DEVPMNT
ECON BC3031  Economics of Life
ECON BC3038  INTERNATIONAL MONEY # FINANCE
ECON BC3039  Environmental and Natural Resource Economics
ECON BC3041  THEORETICL FOUNDTNS-POLIT ECON
ECON BC3045  BUSINESS CYCLES
ECON BC3047  International Trade
ECON BC3049  Economic Evaluation of Social Programs
ECON UN3265  MONEY AND BANKING
ECON BC3270  Topics in Money and Finance