

# ECONOMICS (ECON)

## ECON MTNC. MAINTENANCE-ECONOMICS. (0 Credits)

### ECON 0912. REQUIREMENT PREPARATION. (0 Credits)

For Ph.D. and Master's students, registration necessary to maintain continuous enrollment while preparing for a milestone requirement, such as comprehensive exam, Master's thesis, or dissertation submission.

### ECON 0914. REQUIREMENT PREPARATION IN SUMMER. (0 Credits)

For Ph.D. and Master's students, registration necessary to maintain continuous enrollment while preparing for a milestone requirement during the summer. (e.g., to be used by Ph.D. students after the oral examination/defense and prior to receiving the degree).

### ECON 0930. PHD COMPREHENSIVE EXAMINATION-ECONOMICS. (0 Credits)

### ECON 0936. MASTER'S COMPREHENSIVE EXAMINATION-ECONOMICS. (0 Credits)

### ECON 0950. PROPOSAL DEVELOPMENT. (1 Credit)

### ECON 0960. PROPOSAL ACCEPTANCE. (3 Credits)

### ECON 0970. DISSERTATION MENTORING - ECONOMICS. (0 Credits)

The Economics PhD. student is required to register for Dissertation Mentoring, which has a 3 credit fee, the semester after the student's proposal is accepted.

### ECON 1100. BASIC MACROECONOMICS. (3 Credits)

Investment, GDP, interest rates, the budget deficit, inflation, unemployment, banking, monetary and fiscal policies, and exchange rates appear frequently in the media, but are often little understood. Macroeconomics studies these aggregates and their interconnections, and looks as well at the influence of the Federal Reserve and the federal government.

**Attributes:** ACMI, BUMI, FRSS, IPE, LPBC, SSCI.

### ECON 1150. CB HONORS MACROECONOMICS. (4 Credits)

This course will introduce students to the analytical tools macroeconomists use to address questions about inflation, unemployment, economic growth, business cycles, the trade balance, and fiscal and monetary policy. The tools include basic models of the interaction among goods markets, labor markets, and financial markets and how these interactions determine overall economic performance. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

### ECON 1200. BASIC MICROECONOMICS. (3 Credits)

Microeconomics studies the decisions and interaction of consumers and businesses, resulting in an understanding of the process by which prices and quantities are determined in a market setting. Forms of industrial organization such as competition, monopoly and oligopoly are explored. Also studied are the markets for labor and other factors of production.

**Attributes:** ACMI, BUMI, FRSS, IPE, SSCI.

### ECON 1250. CB HONORS MICROECONOMICS. (3 Credits)

The purpose of this course is to give students the principles that are required to understand current microeconomic issues. Economic logic and evidence is used to analyze consumer and business decisions, and the institutional factors shaping those decisions (e.g., the role of the government). We go through economic theories, and then discuss how these theories apply to the real world.

### ECON 1800. INTERNSHIP. (1 Credit)

### ECON 1999. SERVICE LEARNING-1000 LEVEL. (1 Credit)

In this student-initiated program, the student may earn one additional credit by connecting a service experience to a course with the approval of the professor and the service-learning director.

### ECON 2140. STATISTICS I. (4 Credits)

This course introduces students to descriptive statistics, probability theory, discrete and continuous probability distributions, sampling methods, sampling distributions, estimation and hypothesis testing. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attributes:** BUMI, IPE, URST.

### ECON 2142. STATISTICAL DECISION MAKING. (4 Credits)

This computer-assisted course develops the student's ability to collect data, postulate a hypothesis or a model, select the appropriate statistical technique, analyze the data using statistical software, draw correct statistical inference and clearly summarize the findings. Specific topics include chi-square tests, analysis of variance, simple and multiple regression and correlation models, time series analysis, and quality control. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attribute:** IPE.

**Prerequisite:** ECON 2140.

### ECON 2800. INTERNSHIP. (2 Credits)

Supervised placement for students interested in work experience.

### ECON 2999. TUTORIAL. (2 Credits)

Independent research and readings with supervision from a faculty member.

### ECON 3100. HISTORY OF ECONOMIC THOUGHT. (4 Credits)

An examination of the development of economic thought since the age of mercantilism. Economists covered include Adam Smith, Thomas Malthus, David Ricardo, Karl Marx, John Stuart Mill, Alfred Marshall, Thorstein Veblen, John Maynard Keynes and John Kenneth Galbraith. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attributes:** INST, ISEU, ISIN.

**Prerequisites:** ECON 1100 or ECON 1150 and ECON 1200 or ECON 1250.

### ECON 3116. MACROECONOMIC ANALYSIS. (4 Credits)

An examination of the causes of fluctuations in the level of economic activity. Impact of changes in consumption, investment, and government spending on employment, the price level, and economic growth are analyzed in detail. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attribute:** ASSC.

**Prerequisites:** ECON 1100 or ECON 1150.

### ECON 3118. MICROECONOMIC THEORY. (4 Credits)

Theory of demand, price-output, equilibrium of firms under different market conditions, theory of production and determination of factor prices. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attribute:** ASSC.

**Prerequisites:** ECON 1200 or ECON 1250.

**ECON 3125. MANAGERIAL ECONOMICS. (4 Credits)**

The application of microeconomics to management decision making in both the private and public sectors. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Prerequisites:** ECON 1200 or ECON 1250.

**ECON 3135. INCOME DISTRIBUTION. (4 Credits)**

Government income and expenditure survey, income density functions, estimating distribution models, Lorenz curves, Gini coefficients and Quantiles. Poverty definitions and estimation. Absolute and relative income inequality. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**ECON 3154. MATH FOR ECONOMISTS I. (4 Credits)**

Introduction to differential calculus and linear algebra, as used in economics. Topics include optimization of single variable and multivariable functions, optimization subject to constraints, determinants, matrix inversion, and use of exponential and logarithmic functions in economics. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Prerequisites:** ECON 1200 or ECON 1250.

**ECON 3160. GAME THEORY. (4 Credits)****ECON 3210. ECONOMICS OF DEVELOPMENT. (4 Credits)**

Surveys of the rapid economic changes occurring in Eastern Europe, the former Soviet Union, as well as various emerging economies in Asia, Latin America and Africa. This course is designed to introduce students to the problems which confront today's less developed countries. Students will examine the differences between contemporary and early development, theories of development, the impact of population growth on development, globalization and the role of the state among other issues. Poverty Reduction will be given prominence throughout the course. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attributes:** GLBL, HPSE, HUST, INST, IPE, ISIN, LALS, LASS.

**ECON 3212. OPEN ECONOMY MACROECONOMICS. (4 Credits)****ECON 3215. Bronx Urban Economic Development. (4 Credits)**

The course will use economics, urban studies, and social service policy to examine economic, political and social issues that impact the local Bronx community. Topics covered will include budgetary policy, education policy, community development and investment and university/neighborhood relations, among others. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attributes:** AFAM, ICC, PJST, SSCI, URST.

**ECON 3235. ECONOMY OF LATIN AMERICA. (4 Credits)**

The Latin American experience from an economic perspective. The political and social dimensions of this experience. Among the most controversial subjects to be considered are: Latin America's economic relations with the developed nations (trade, investment, foreign aid); the problems of internal stabilization in Latin American economies; the "distributive" issues (land tenure, income distribution, employment). Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attributes:** GLBL, HPSE, HUST, INST, IPE, ISLA, LALS, LASS, PJST.

**ECON 3240. WORLD POVERTY. (4 Credits)**

An investigation into the causes and consequences of poverty, both in the United States and in developing countries. The available statistics and the economic explanations of poverty are surveyed. Contemporary debates over policies to reduce poverty are discussed, including issues of welfare, food and housing subsidies, foreign aid, famine relief and agricultural development. The link between income distribution and economic growth is also discussed. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attributes:** ASSC, GLBL, HPSE, HUST, INST, IPE, ISIN, LALS, LASS, PJST, URST, WGSS.

**Prerequisites:** ECON 1100 or ECON 1150.

**ECON 3242. GLOBAL ECONOMIC ISSUES. (4 Credits)**

Students debate the economic and environmental consequences of globalization, including trade agreements, labor standards and immigration, capital flows, climate change and the HIV-AIDS/Malaria pandemics. The perspective of non-western countries is emphasized, including their participation in international agreements such as the Kyoto and Montreal Protocols and within institutions such as the WTO, the World Bank, the United Nations and the IMF. We study a little game theory as applied to international negotiations and some key principles of environmental economics, but there are no formal prerequisites for this course. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attributes:** GLBL, IPE, LALS, LASS.

**ECON 3244. INTERNATIONAL ECONOMIC POLICY. (4 Credits)**

This course explores the theoretical foundations of international trade flows and international monetary economics. The theoretical background is then used as a basis for discussion of international economic policy issues. The course emphasizes patterns of international trade and production; gains from trade; tariffs and other impediments to trade; welfare implications of international trade and trade policies; balance of payments; foreign exchange markets; coordination of monetary and fiscal policy in a global economy. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attributes:** ASSC, HPSE, HUST, INST, IPE, ISIE, ISIN, LALS, LASS, PJST, URST.

**Prerequisites:** ECON 1100 or ECON 1150 and ECON 1200 or ECON 1250.

**ECON 3245. INTERNATIONAL POLITICAL ECONOMY. (4 Credits)**

This course uses economic methodology to study the fundamental relationships between wealth and political power in the context of various international economic policies. Contemporary issues covered can include globalization, protectionism, trade wars, foreign assistance and macroeconomic coordination. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**ECON 3248. MIGRATION AND DEVELOPMENT: A SOCIAL JUSTICE PERSPECTIVE. (4 Credits)**

Migrations continue to reshape global economy, especially large cities. The human rights of conflict and climate refugees is a major challenge for UN countries. Global inequality is now determined mainly by where you are born. This course reviews theory and evidence on the impact of immigration on sending and receiving countries. Why do some regions welcome immigrants (e.g., NYC and California) while others spend large sums to stop migration. Who gains and who loses from immigration? Is there a fair and humanitarian approach that to immigration that promotes development in sending and receiving countries while minimizing the social and political cost of human mobility. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attribute:** ASSC.

**Prerequisites:** ECON 1100 or ECON 1200.

**ECON 3256. COMPARATIVE ECONOMIC SYSTEMS. (4 Credits)**

Survey of the salient features of alternative economic systems; the mixed economies of the western world and Japan, the reforms in the former Soviet, Eastern European, and Chinese economies; problems of measuring economic performance. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attributes:** GLBL, INST, IPE, ISIN.

**ECON 3340. ECONOMICS OF INTERNATIONAL BUSINESS. (4 Credits)**

This course describes the close connection between economic development and growth of the global economy via international business enterprise. Topics include an analysis of modern international business practices as one of the principal instruments of economic development; the emergence of the global, multinational enterprise out of post-WWII institutions and policies incorporated in GATT and IMF; international business strategies applied to diverse cultures and traditions; the tensions between national identity and the requirements of the global economy; profit vs. social welfare; technology transfer (with special emphasis on communications tech); MSBE entre to global markets; access to funding via international and indigenous financial markets; and the role of foreign direct investment. The course will also feature guest speakers. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attributes:** INST, ISIN.

**Prerequisites:** (ECON 1100 or ECON 1150) and (ECON 1200 or ECON 1250).

**ECON 3346. INTERNATIONAL TRADE. (4 Credits)**

A foundation course in international economics. Covers both international trade theory and policy. Issues examined include protectionism, trade and growth, custom unions, and multinational corporations. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attributes:** ASSC, HPSE, HUST, INST, IPE, ISIE, ISIN, LALS, LASS, URST.

**Prerequisites:** ECON 1100 or ECON 1150 or ECON 1200 or ECON 1250.

**ECON 3347. INTERNATIONAL FINANCE. (4 Credits)**

A foundation course in international economics. Covers foreign exchange markets and the balance of payments. Also examines macroeconomic policies affecting employment and inflation in an open economy. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attributes:** INST, IPE, ISIN.

**Prerequisites:** ECON 1100 or ECON 1150 or ECON 1200 or ECON 1250.

**ECON 3430. ST. SUSTAINABLE BUSINESS. (4 Credits)**

This foundation course for the GSB-FCRH Sustainable Business minor covers the ethical, economic, and scientific principles needed to manage and promote enterprises that are both profitable but also socially and environmentally responsible. Using case studies, guest speakers and their own research students acquire the comprehensive perspective necessary to manage and promote social entrepreneurship within large and small companies and to work with NGOs, fair trade groups, private-public sector partnerships and micro-enterprises, etc. Sustainable means profitable, environmentally sound and enabling for small scale entrepreneurs. Case studies range from Google's East Coast Wind Power grid to carbon offset programs in the Amazon to mobile phone remittance based microfinance programs in Africa. This first course will draw on the knowledge of Fordham students and faculty as well guest speakers from the New York area to build a new sustainable business and development program at Fordham. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attributes:** ENST, ENT, ESEC, IPE, PJST.

**ECON 3435. INDUSTRIAL ORGANIZATION. (4 Credits)**

An examination of the behavior of firms in monopolistic and oligopolistic market structures; the history, content, and effectiveness of anti-trust legislation; and the role of regulation in American industry. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**ECON 3453. LAW AND ECONOMICS. (4 Credits)**

This course applies microeconomic analysis to traditional areas of legal study, such as contract, property, tort and criminal law. The approach applies the 'rational choice' framework used in economics to analyze the purpose, effect and genesis of laws. Attention is paid to the effect of legal structures on economic efficiency. Economic analysis of law is one of the fastest growing and most influential areas of both economic and legal scholarship. This course is of value to both the general economist and students planning to attend law school. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attributes:** AMST, APPI, ASHS, ASSC, LPBC, LPGP.

**Prerequisites:** ECON 1200 or ECON 1250.

**ECON 3455. ECONOMICS AND REGULATION. (4 Credits)**

This course provides students with the tools to understand the institutional aspect of regulatory and antitrust policies. It examines the economic issues at stake, what particular market failures provide a rationale for government intervention, the appropriate form of government actions and the effects of government intervention. Topics such as government merger policies, cable television regulation, transportation regulation, crude oil and natural gas regulation, environmental regulation, and regulation of workplace health and safety will be covered. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attribute:** LPGP.

**Prerequisite:** ECON 1200.

**ECON 3563. LABOR ECONOMICS. (4 Credits)**

This course examines labor institutions and their historical development in addition to the economics and peculiarities of labor markets. The role that institutional pressures (e.g., trade unions, government legislation, labor-management relations), industry organization, and market forces play in determining the terms and conditions of employment are discussed. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attributes:** LALS, LASS, LPBC, LPGP.

**ECON 3570. LABOR MARKET AND DIVERSITY. (4 Credits)**

The goal of this course is to enable students to think independently about labor market and diversity issues. This course will (a) provide an introduction to the economic analysis of behaviors and institutions in the labor market; and (b) give students the tools to deal with diversity questions within the labor market such as educational attainment, employment discrimination, and income inequality across gender and racial groups. Economic logic and evidence will be used to analyze employer and employee decisions and the institutional factors shaping those decisions. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attributes:** AMST, ASSC, DISA, PJST, PLUR, URST, WGSS.

**Prerequisites:** ECON 1100 or ECON 1150 and ECON 1200 or ECON 1250.

**ECON 3580. ECONOMICS OF DIVERSITY. (4 Credits)**

Many of the social interaction of an individual in American society are shaped by the ethnic, racial, and gender groups to which the individual belongs. In this course we will investigate several of the economic effects of social interactions in a diverse society including: residential segregation, peer effects on neighborhood crime rates, inter-racial marriage patterns, diverse, social norms and cultural beliefs, the spread of diseases, income inequality, and affirmative action. While the specific topics covered are broad, many share properties that can be understood through the concepts of basic network theory. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attributes:** ACUP, ADVD, AMST, APPI, ASHS, LALS, LASS, LPGP, LPHP, PLUR, URST, WGSS.

**ECON 3636. MONEY AND BANKING. (4 Credits)**

The role of commercial banks and financial institutions in the creation and allocation of money and credit; the central bank as regulator of the money supply; monetary theory and policy; the international monetary system. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attribute:** ASSC.

**Prerequisites:** ECON 1100 or ECON 1150.

**ECON 3637. MONETARY POLICY. (4 Credits)**

An analysis of the monetary sector of the economy and the impact of monetary policies designed to solve the problems of inflation, unemployment, and economic growth. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Prerequisite:** ECON 3636.

**ECON 3666. ECONOMICS AT THE MOVIES. (4 Credits)**

Films spirit us away. Whether we journey somewhere in time, or far, far away, we do it in the name of entertainment. One does not, simply, walk away from a well-made film, unchanged. Regardless of subject, genre or direction, film draws from the human experience. This course will utilize film to illustrate the concepts that students have and will encounter in their study of Economics. Through the lens of Economic Analysis, students will experience film and enrich the film-going experience. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Prerequisites:** ECON 1100 or ECON 1150 and ECON 1200 or ECON 1250.

**ECON 3739. FINANCIAL MARKETS. (4 Credits)**

An introduction to flow of funds analysis and interest rate determination in the money and capital markets; the risk and term structure of interest rates. An introduction to financial futures, options, and swaps. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**ECON 3740. ISSUES IN FINANCIAL MARKETS. (4 Credits)**

This course provides an in-depth examination and discussion of selected topics in financial markets. Topics of current interest will be drawn from both academic and non-academic sources. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Prerequisites:** ECON 1200 or ECON 1250.

**ECON 3743. STOCKS, BONDS, OPTIONS, AND FUTURES. (4 Credits)**

This course examines the working of the primary and secondary markets, investment banking, brokers and dealers, the New York and the American Stock Exchanges, the NASDAQ, the options and futures markets. Fundamental and technical analysis is also covered. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**ECON 3778. CORPORATE FINANCE. (4 Credits)**

The decision-making processes of a firm across time and in the presence of uncertainty. Financial assets and markets. Valuation of financial assets. Working capital and long-term financial management. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**ECON 3800. INTERNSHIP. (3 Credits)**

Supervised placement for students interested in work experience.

**ECON 3840. ENVIRONMENTAL-ECONOMIC POLICY. (4 Credits)**

This course will introduce students to the basic supply-and-demand framework used to evaluate market outcomes in basic microeconomics courses. Within the context of this framework, the course will explore several policy-relevant environmental issues, including; agricultural production, climate change, electricity generation, and ecosystem services. Exploration of the contemporary environmental issues will be led by student groups, which will engage in oxford-style debates regarding potential resolution of each issue. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attributes:** ASSC, ENST, ESEC, PJST.

**Prerequisites:** ECON 1200 or ECON 1250.

**ECON 3850. ENVIRONMENTAL ECONOMICS. (4 Credits)**

Good economic analysis underlies many successful environmental policies, from reducing air and water pollution to the Montreal Accord limiting ozone depleting gases. However, the environmental challenges of global warming, biodiversity and sustainable development are increasing global as well as politically and economically complex. This course reviews the key economic ideas underlying past successes and explores potential solutions for sustaining economic growth with environmental preservation in rich and poor countries alike. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attributes:** AMST, APPI, ASHS, ASSC, ENST, ENVS, EPLE, ESEC, INST, ISIN, PJST, URST.

**Prerequisites:** ECON 1200 or ECON 1250.

**ECON 3870. PUBLIC FINANCE. (4 Credits)**

The role of public expenditure in a market economy. Equity and efficiency in a tax system. Description and analysis of the major taxes. Intergovernmental fiscal relations. Programs for redistributing income. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attributes:** LPGP, URST.

**Prerequisites:** ECON 1100 or ECON 1150 or ECON 1200 or ECON 1250.

**ECON 3872. PRINCIPLES OF COST-BENEFIT ANALYSIS (CBA). (4 Credits)**

An introduction to the theory and practice behind environment policy decisions in developed and developing countries. Featured are applications in health, education, transport, preserving the environment and HIV/Aids. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Prerequisites:** ECON 3118 or ECON 3870.

**ECON 3884. CONTEMPORARY ECONOMIC PROBLEMS. (4 Credits)**

A survey of outstanding micro and macroeconomic problems facing the United States. Topics covered include changes in the global economy, unemployment and inflation, poverty, environmental protection, health care reform, the productivity issue, the deficit. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attributes:** LPBC, LPGP, WGSS.

**ECON 3885. INTRODUCTORY ECONOMETRICS. (4 Credits)**

This course introduces students to econometrics. It reviews the classical regression model before studying in detail deviations from the classical assumptions, which are often encountered in practice. The course covers several estimation techniques (such as maximum likelihood), as well as topics in time series analysis. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Prerequisites:** ECON 1100 or ECON 1150 and ECON 1200 or ECON 1250.

**ECON 3971. URBAN ECONOMICS. (4 Credits)**

Urban Economics is the study of location choices by firms and households. The technological changes and economic factors driving the process of urbanization, and the shift from a "downtown"-centered city to the suburbanized metropolises prevalent in the U.S. today is the central focus of the course. Throughout the course, New York City's history and current situation is used as an example of the economic forces operating on cities. Students will participate in a group project to analyze a major urban problem such as housing affordability, poverty, crime or education. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attribute:** URST.

**ECON 3999. SERVICE LEARNING-3000 LEVEL. (1 Credit)**

In this student-initiated program, the student may earn one additional credit by connecting a service experience to a course with the approval of the professor and the service-learning director.

**ECON 4005. FAIR TRADE ENTREPRENEURSHIP. (4 Credits)**

Fair trade is a global response to social injustice and poverty. Whether it is capital for "startups" or markets for fair trade coffee, the fair trade movement promotes socially and environmental responsibility business practices here and abroad. This course reviews the fair trade movement's successes and failures to find alternatives to business as usual that reduce poverty and build a sustainable global economy. Students focus on country specific examples of fair trade and microfinance social innovation that reduce poverty by creating viable livelihoods. Marketing, insurance, finance and management can all be applied to build a socially justice and sustainable global economy. "We urgently need a humanism capable of bringing together the different fields of knowledge, including economics, in the service of a more integral and integrating vision" Pope Francis argues in his recent Encyclical Letter, this course explores this vision. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attributes:** IPE, PJST.

**ECON 4020. DISABILITY: ECONOMIC AND OTHER APPROACHES. (4 Credits)**

This course is a critical survey of the research and analysis of disability definitions, measures and economic issues with a focus on the interaction between disability and the public policy arena in the United States. It uses economic models, but also covers in-depth approaches and methodologies in other disciplines. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attributes:** DISA, ICC, PLUR.

**Prerequisites:** ECON 1100 or ECON 1200.

**ECON 4110. ETHICS AND ECONOMICS. (4 Credits)**

This course examines how ethical considerations enter into economic decisions. Readings include writings by moral philosophers and the founders of economic thought as well as recent research on ethical issues. Topics for discussion may include childcare, trade liberalization, welfare reform, healthcare, poverty, pollution and economic sanctions. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attributes:** AMCS, AMST, APPI, ASHS, EP4, LPBC, URST, VAL.

**Prerequisites:** ECON 1200 or ECON 1250.

**ECON 4200. SEMINAR: MANAGERIAL ECONOMICS IN A GLOBAL ECONOMY. (4 Credits)**

The application of economic theory (microeconomics and macroeconomics) and decision science tools (mathematics and econometrics) by firms and non-profit organizations to find optimal solutions to managerial decision problems in the face of constraints. The topics covered are new managerial theories of organizations in the globalized world of today; the theory and estimation of demand, production and costs, and their relationship to output and prices under various market structures. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Prerequisites:** (ECON 1100 and ECON 1200) or (ECON 1150 and ECON 1250).

**ECON 4800. INTERNSHIP. (4 Credits)**

Supervised placement for students interested in work experience. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**ECON 4870. ECONOMIC FOUNDATIONS OF CATHOLIC SOCIAL TEACHING. (4 Credits)**

This course explores the economic thought that has served as the basis of the Church's teaching on issues like capitalism, socialism, poverty, wages, unions, the environment, and economic responsibility from Leo XIII's encyclical *Rerum Novarum* to the present and current economic research that may guide future Church teaching. This will be done through lectures, readings from primarily 19th and 20th-century economic works, and discussion of how these works' ideas are evident in papal encyclicals and other Church documents. The course will include case studies of how Catholic social teaching has influenced national social and economic policies in Europe and the U.S. Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attributes:** AMCS, BEHR, BIOE, ICC, REST, THEO.

**Prerequisites:** ECON 1100 or ECON 1200 or ECON 1150 or ECON 1250.

**ECON 4900. INTERNSHIP SEMINAR. (4 Credits)**

Students are placed in a work setting of their choice for 8 to 10 hours per week to enrich their understanding of the economic process. Readings and a written report related to the student's internship are assigned. There is a pass/fail grade for the course. The course is restricted to seniors majoring in economics Urban and Public Sector Four-credit courses that meet for 150 minutes per week require three additional hours of class preparation per week on the part of the student in lieu of an additional hour of formal instruction.

**Attribute:** IPE.

**ECON 4998. HONORS SEMINAR IN ECONOMICS. (1 Credit)**

Supervised individual study project.

**ECON 4999. TUTORIAL. (0 to 4 Credits)**

Supervised individual study projects.

**ECON 5005. FAIR TRADE ENTREPRENEURSHIP. (3 Credits)**

Fair trade is a global response to social injustice and poverty. Whether it is capital for "startups" or markets for fair trade coffee, the fair trade movement promotes socially and environmental responsibility business practices here and abroad. This course reviews the fair trade movement's successes and failures to find alternatives to business as usual that reduce poverty and build a sustainable global economy. Students focus on country specific examples of fair trade and microfinance social innovation that reduce poverty by creating viable livelihoods. Marketing, insurance, finance and management can all be applied to build a socially justice and sustainable global economy. "We urgently need a humanism capable of bringing together the different fields of knowledge, including economics, in the service of a more integral and integrating vision" Pope Francis argues in his recent Encyclical Letter, this course explores this vision.

**Attributes:** CEED, CENS.

**ECON 5006. Programming Econ& Finance. (3 Credits)**

This course introduces the student to various computer programs and their applications in economics and in finance. The course begins with a general review of programming skills using MATLAB. It then presents other statistical and econometric packages such as SAS and STATA. The course concludes with a review of the LATEX program.

**ECON 5011. ECONOMIC ANALYSIS. (3 to 4 Credits)**

A survey of macro- and microeconomic theory intended to prepare IPED students, who had not majored in economics as undergraduates, for IPED's other core courses in economics.

**Attribute:** IPED.

**ECON 5015. Eco Development Policy. (3 Credits)**

Using economic methodology, this course examines the interaction between political and economic institutions in the determination of economic policy in developing countries. Topics may include population control, urban bias, agrarian reform, trade policies, foreign aid, and macroeconomic adjustment policies.

**Attributes:** CEED, CENS, HPSE, HUST, IPED, URSG.

**Prerequisite:** ECON 5011.

**ECON 5020. African Economic Development. (3 Credits)**

The key objective of this course is to develop an understanding of the economic development problems of Africa, the trade patterns and financial relationships of Africa to the rest of the world. With examples, application, and country case studies, the course covers major development challenges and the possible solutions, the growing influence of African economics in industrialized and developing countries as well as future prospects.

**ECON 5032. ECONOMIC THEORY AND APPLICATION OF TRANSFER PRICING. (3 Credits)**

The reorganization of corporations into large multinational units with diverse operations has given renewed interest in the issue of transfer pricing of goods and services as they move between corporate units. Transfer pricing gives rise to a host of taxation and economic issues. In this course, we focus on economic models for transfer pricing using agency theory and game theory and discuss Hirshleifer's theories of corporate organization. We then discuss a variety of tax issues that arise under different pricing schemes and work through case studies to provide a well-rounded perspective of how theory relates to practice. Undergraduate seniors who wish to enroll in ECON 5032 must have successfully completed ECON 3118, and obtain the written permission of the professor, graduate department program director and senior class dean to register for this course.

**ECON 5040. Strategic Financial Management. (3 Credits)**

An introduction to the basic questions facing an investor evaluating firm policy. The course covers debt/equity choice, dividend policy, and principle/agent problems within the firm. The value of the firm under different financial and managerial structures. Current research is surveyed to determine how investors interpret various financial arrangements such as dividend policy, taxes, and stock offerings. Specific attention will be paid to information and incentives of each party in a financial contract in the context of structuring the firm, running the firm efficiently, and if all else fails, bankruptcy.

**ECON 5105. Topics in Economic History. (3 Credits)**

The course aims to examine how to apply the core ideas and methods of economics to a wide range of historical issues, while at the same time broadening and deepening the exchange of ideas between economists and historians.

**Attribute:** HIST.

**ECON 5260. Epidemics & Devel Policy. (3 Credits)**

A study of epidemics in developing countries, their transmission, control and governmental policy.

**Attributes:** CEED, CENS, HUCB, INST, IPED, ISIN.

**ECON 5280. URBAN ECONOMICS. (3 Credits)**

The field of urban economics addresses a wide variety of urban questions and topics. At the most general level, the field introduces space into economic models and studies the location of economic activity. Urban economics typically addresses four sets of questions: development of urban areas, patterns of development within metropolitan areas, the spatial dimensions of urban problems, and the spatial aspects of local government.

**Attributes:** CEED, CENS.

**ECON 5415. GENDER AND ECONOMIC DEVLPMNT. (3 Credits)**

Analyze the social nature of gender and economic development in a cross-cultural perspective. Topics include household labor, occupational segregation and earnings, inequality in market work, poverty, family structure, public policy and gender equity. The course draws on material from economics and other social sciences to analyze the social nature of gender and economic development in a cross-cultural perspective. Topics include women's household labor; occupational segregation and earnings; inequality in market work; the intersections of gender, class, race, and ethnicity; women and poverty; family structure; public policy and gender equity.

**Attributes:** CEED, CENS.

**ECON 5442. Emerging Markets: South Africa. (3 Credits)**

Intended for students from South Africa participating in Fordham's ADV EMRA program, this course is offered every August at the University of Pretoria. Students will collect and analyze economic and financial data on South Africa and compare it with similar data on the emerging markets as well as with more established markets. In addition, students will have the opportunity to interact with South African business, labor and government representatives as well as with US business and government representatives. At the end of the course students will attempt to determine the prospects for foreign equity investment for a particular country.

**ECON 5450. CRISES, ADJUSTMENT AND POVERTY. (3 Credits)**

This course explores how low income countries cope with large fluctuations in foreign aid, resource revenues, and private capital flows. Financial crises, IMF adjustment programs, conditionality, social budgeting, and poverty focused employment/transfer programs are explored using case studies from Africa, Asia, Latin America and Eastern Europe.

**Attributes:** CEED, CENS, HPSE, HUST, IPED.

**ECON 5500. FINANCIAL ANALYSIS. (3 Credits)**

An examination of the pricing of financial instruments and the working of the markets for stocks, bonds, options, and futures contracts.

**Attribute:** IPED.

**ECON 5510. INTERNATIONAL ECONOMIC POLICY. (3 Credits)**

Using economic methodology, this course examines the interaction between political and economic institutions in the determination of international economic policy. Topics may include protectionism, strategic trade policy, sanctions, and macroeconomic coordinations.

**Attributes:** INST, IPED, ISIN.

**Prerequisite:** ECON 5011.

**ECON 5515. INT'L MONETARY POLICY. (3 Credits)**

This graduate level course in international macroeconomics and finance is part of the Core Courses of the IPED program. It is designed to help students develop an understanding of international capital markets and provide a conceptual framework for the analysis of macroeconomic policy in an open economy.

**Attribute:** IPED.

**ECON 5540. EMERGING MARKETS. (3 Credits)**

Intended primarily for IPED students interested in analyzing the dynamics of emerging financial markets in Africa, Asia, and Latin America. The course complements POGA 6991- Political Risk Analysis. Students must prepare a country study regarding one country's basic macroeconomic performance, foreign exchange market, and stock market. Use of a computer and the Internet are incorporated into the course to gather data and analyze it statistically. Intended primarily for IPED students, this course explores the dynamics of emerging financial markets in Africa, Asia, Eastern Europe, and Latin America. Complimenting and expanding upon the skills learned in POGA 6991 Political Risk Analysis, students learn how to prepare a country study regarding their country's leading macroeconomic indicators, the stability of its foreign exchange market, and the likely returns and risks associated with its stock market. Real time data is obtained from the university's Bloomberg Terminal and the internet. Additional data is available from standard written and CD-ROM statistical sources. Students are taught how to analyze this data using standard statistical software to forecast trends as well as to estimate returns, volatility and cross correlations. An optimal portfolio of equity investments in emerging markets is estimated. Interest in analyzing the dynamics of emerging financial markets in Africa, Asia, Eastern Europe, and Latin America.

**ECON 5541. EMERGING MKTS: SOUTH AFRICA. (3 Credits)**

Students will analyze economic and financial data in order to judge the prospect for foreign equity investment in South Africa. Students will also meet with union business, government and political leaders. This course can substitute for ECON 5540 Emerging Markets in the EMRA certificate requirements.

**ECON 5542. EMERGING MKTS: SOUTH AFRICA. (3 Credits)**

Intended for students from South Africa participating in Fordham's ADV EMRA Program, this course is offered every August at the University of Pretoria. Students will collect and analyze economic and financial data on South Africa and compare it with similar data on other emerging markets as well as with more established markets. In addition, students will have the opportunity to interact with South African business, labor and government representatives as well as with US business and government representatives. At the end of the courses students will attempt to determine the prospects for foreign equity investments for the particular country.

**ECON 5545. MICROFINANCE IN EMERGING ECONOMIES. (3 Credits)**

This class will present the basic concepts related to microfinance, its origins and evolution. The class will analyze the main Emerging Economies microfinance models. It will review how Microfinance institutions (MFIs) are organized and how they differ from the banking sector providing loans to micro-entrepreneurs. The class will present a detailed analysis of successful MFIs, its results in terms of micro-business development and its impact on development and social inclusion. It will present the products and instruments used and how MFIs make them attractive and accessible for their clients and at the same time, profitable creating a self sustainable business model.

**Attribute:** ASSC.

**ECON 5551. DOMESTIC AND INTERNATIONAL BANKING. (3 Credits)**

A survey of domestic, and international banking activities and regulations, foreign exchange futures and options, foreign exchange rates, Eurocurrency markets, interest rate swaps, American banking regulations, hedging foreign exchange and interest rate risk, and financial innovation.

**Attribute:** IPED.

**ECON 5552. THE ROSE PROGRAM. (3 Credits)**

This course is intended for students who want to learn more about regulation in the financial services industry and want to get actively involved in shaping the regulatory space. Top performing project teams will present their proposals to a panel of Wall Street executives and will be invited to Washington, DC to present to regulators.

**Prerequisites:** (ECON 1100 or ECON 1150) and (ECON 1200 or ECON 1250).

**ECON 5570. GLOBAL FINANCIAL MARKETS. (3 Credits)**

The course describes the markets and regulatory structures in which firms operate and the types of financial instruments used in developed and developing countries. Examines sources of risk investors face as well as how the financial system itself plays a role in development. An examination of financial markets in developed and developing countries. This course describes the markets and regulatory structures in which firms operate to raise funds and the type of financial instruments used. Attention is paid to sources of risk investors face domestically and internationally and the pricing of that risk. The course also looks at how firms operate under the financial constraints of a developing economy as well as how the financial system itself may play a role in affecting the rate of development. Satisfies IPED students the GBA certificate prerequisite of FN6411 Financial Environment. Designed to complement topics covered in ECGA 5551 Domestic and International Banking.

**Attributes:** INST, IPED, ISIN.

**ECON 5590. HEALTH ECONOMICS. (3 Credits)**

The aim is to evaluate health expenditures and health policies in both the US and in Developing Countries using a common framework that integrates equity and efficiency. The course covers cost minimization, cost-effectiveness analysis, cost-utility analysis and cost-benefit analysis. All theories are matched with an application related to an actual policy expenditure decision. Applications related to the US include valuing physician service, alcohol treatment, inpatient care, diagnostic related groups (DRGs), psychiatric hospitals, Medicare payments, and bills charged to patients. Applications of special interest to developing countries include vaccinations, Disability Adjusted Life Years (DALYS) and the global burden of disease, user fees and various interventions for HIV/AIDS.

**ECON 5700. MATH CAMP. (3 Credits)**

The primary objective of this course is to provide incoming graduate students with solid mathematical foundations necessary for the first year sequence of theory and econometric courses. This course is designed on the presumption that students will have already been exposed to some of this material in previous studies.

**ECON 5710. MATH FOR ECONOMISTS I. (3 to 4 Credits)**

An introduction to linear algebra and differential calculus, as used in economics. Topics include matrix algebra, determinants, solutions of systems of linear equations, differentiation, single variable optimization, and an introduction to multivariate and constrained optimization.

**Attribute:** IPED.

**ECON 5740. GIS MAPPING: STATA AND R PROG. (3 Credits)**

This course studies the mapping of long data sets into geographical information systems (GIS) by programming STATA and R.

**ECON 5750. Game Theory. (3 Credits)**

In this course we examine economic and social networks and their corresponding economic effects. We cover the measurement and common regularities of social network properties and popular models of network formation. We apply these tools to topics of interest which may include: Labor Markets, The Spread of Infectious Diseases, The Spread of Financial Information, The Spread of New Technologies/ Fads/ Fashions, Marketing, Social Norms, Game Theory and Other Strategic Interactions, Immigration and Social Capital, Industrial Organization.

**ECON 5760. COMPUTATIONAL MACROECONOMICS/FINANCE. (3 Credits)**

The aim of this course is to explore methods used to compute numerical solutions to dynamic stochastic general equilibrium (DSGE) models with applications to both macroeconomics and finance. The course begins with a rigorous exploration of numerical methods including function approximation, numerical differentiation and integration, non-linear equations, numerical optimization, and the simulation of multivariate Markov processes. Utilizing these tools, we will pursue solution methods such as perturbation methods, discrete state space methods, and parameterized expectations.

**ECON 5771. PROJECT ASSESSMENT. (3 Credits)**

Uses the logical framework analysis frequently mandated by USAID to design a results based system to monitor and evaluate small community development projects.

**ECON 5808. MICROFINANCE & MIGRATION. (3 Credits)**

Migration, access to credit (microfinance) and remittances can create employment and education opportunities for poor families, particularly women. Interdisciplinary case studies from Mexico, the DR, the Bronx, Amsterdam, Nigeria, China, Bangladesh and India show how race, class and gender affect employment outcomes.

**Attributes:** CEED, CENS, HULI.

**ECON 6010. MICROECONOMIC THEORY I. (3 to 4 Credits)**

Methodology, theory of consumer behavior and demand. Theory of production and factor prices under varying market structures. Welfare economics.

**Attribute:** IPED.

**ECON 6020. MACROECONOMIC THEORY I. (3 Credits)**

Classical, Keynesian, and contemporary analysis of income, employment, and price determination. Rational expectations in macro models. Dynamics of inflation and inflationary expectations.

**Attributes:** ASDM, IPED.

**ECON 6030. GLOBAL MANAGERIAL ECONOMICS. (3 Credits)**

The application of economic theory and decision science tools by global firms to find optimal solutions to managerial decisions problems. The topics covered are new managerial theories of organizations in the globalized world of today; the theory and estimation of demand, production and costs, and their relationship to output and prices under various market structures.

**ECON 6240. FINANCIAL ECONOMICS. (3 Credits)**

A study of the fundamental methods and pricing techniques in Financial Economics. The course studies valuation of fixed income securities, stocks, and derivative contracts. Course description updated (Item 6) Fall 06. An analysis of asset pricing and financial market structure.

**Attribute:** IPED.

**ECON 6310. MONETARY POLICY. (3 Credits)**

The impact, transmission, and incidence of monetary policy, central bank control of the money supply, rational expectations, and the effectiveness of monetary policy.

**ECON 6320. MONETARY THEORY. (3 Credits)**

The influence of money on prices, interest, output, and employment. Microfoundations of monetary theory, Rational expectation, contract theory.

**ECON 6340. FINANCIAL THEORY. (3 Credits)**

The theory of financial decision making, risk, and risk aversion, advanced asset pricing models, empirical regularities of financial markets. Prerequisite: ECGA 6330, ECGA 5710. ECGA 6710 is strongly recommended.

**Prerequisite:** ECON 6710.

**ECON 6440. DEVELOPMENT ECONOMICS. (3 Credits)**

This course is designed to introduce students to the analytical framework of house economics. This framework is then used to study micro finance, education and health. The course also covers ways to assess the success of development projects done in these areas.

**Attribute:** IPED.

**ECON 6460. AGRICULTURE AND DEVELOPMENT. (3 Credits)**

Topics in agricultural economics including food security and environmental issues.

**Attributes:** ABGS, CEED, CENS, IPED.

**ECON 6470. GROWTH AND DEVELOPMENT. (3 Credits)**

A survey of growth models and statistical evidence to determine what causes growth rate to vary among countries and over time. Topics include the source of economic growth, growth with balance of payments adjustments, capital inflows and growth, and north-south growth models. Prerequisites ECGA 5410 and ECGA 5710. Growth models and statistical evidence are surveyed to determine what causes growth rates to vary among countries and over time. Topics include the sources of economic growth, growth with balance of payments adjustment, capital inflow and growth, and North-South growth models. Prerequisites: Economic Development Policy and Applied Econometrics or the equivalent.

**Attributes:** INST, IPED, ISIN.

**Prerequisites:** ECON 5710 or ECON 5700.

**ECON 6480. ENVIRONMENTAL AND RESOURCE ECO. (3 Credits)**

This course considers environmental/protection and natural resource management as elements of international policy development and planning.

**Attribute:** IPED.

**ECON 6490. FOREIGN AID & DEVELOPMENT. (3 Credits)**

This course examines both the economic and the political role of foreign aid in development. Economic topics may include economic growth, agricultural development, food aid, the environment, health, education, and emergencies. Political topics may include alliance building, conflict resolution, and governance.

**Attributes:** CEED, CENS, HULI, INST, IPED, ISIN.

**ECON 6510. International Trade. (3 Credits)**

Absolute and comparative advantage. Factor price equalization and important trade theorems. Empirical tests of the Leontief Paradox. Factor growth, technical progress in a simple, open economy. Tariffs in large and small countries. Effective protection. Theory of second best. Theory of customs unions.

**Attributes:** HPSE, HUST, IPED.

**ECON 6530. INTERNATIONAL ECONOMICS OF DEVELOPMENT. (3 Credits)**

International Economics of Development studies those aspects of development that are related to International economics. Subjects covered can include the connection between economic growth and international trade, the terms of trade and economic development, export instability and economic development, import substitution versus export promotion, international labor migration, and international capital flows.

**ECON 6560. INTERNATIONAL FINANCE. (3 Credits)**

Balance of payments. Foreign exchange market. The nature, disturbance, and readjustments of the balance of payments. Capital exports and the theory of transfer. Development of international economic institutions and the world economy. Flexible exchange rates. Purchasing power parity. Covered interest arbitrage. Short-term capital movements and the efficiency of the foreign exchange market.

**Attributes:** INST, IPED, ISIN.

**ECON 6710. Math for Economists II. (3 Credits)**

Advanced mathematical techniques used in economics, including exponential and logarithmic functions, integration, multivariate and equality-constrained optimization, dynamic equations and systems of dynamic equations, as well as more advanced optimization techniques.

**ECON 6770. MICROFINANCE IN EMERGING ECONOMIES. (3 Credits)**

This class will present the basic concepts related to microfinance, its origins and evolutions. The class will analyze the main Emerging Economics microfinance models. It will review how Microfinance Institutions (MFI's) are organized and how they differ from the banking sector providing loans to micro-entrepreneurs. The class will present a detailed analysis of successful MFI's, its results in terms of micro-business development and its impact on development and social inclusions. It will present the products and instruments used and how MFI's make them attractive and accessible for their clients and at the same time, profitable creating a self sustainable business model.

**ECON 6910. APPLIED ECONOMETRICS. (3 Credits)**

Basic techniques of econometric theory, including applications in consumer theory, theory of the firm, and in macroeconomics, as well as a review of statistical methods. Some computer work is assigned.

**Attribute:** IPED.

**ECON 6950. FINANCIAL ECONOMETRICS. (3 Credits)**

Hypothesis testing, and modeling, with respect to financial data.

**Attribute:** ASDM.

**ECON 7010. MICROECONOMIC THEORY 2. (3 Credits)**

Advanced topics in demand and production theory, human capital, theories of interest, technological change, general equilibrium, and welfare economics.

**ECON 7020. MACROECONOMIC THEORY II. (3 Credits)**

Optimal wage/employment contracts, with implications for unemployment compensation schemes: a taxonomy of macroeconomics dis-equilibrium; old and new theories of business cycles; problems of productivity and growth.

**ECON 7910. ECONOMETRICS I. (3 Credits)**

An examination of the standard linear model and generalized least squares. Hypothesis formulation, model specification, estimation and testing techniques, using matrix algebra.

**ECON 7920. ECONOMETRICS II. (3 Credits)**

An advanced treatment of select topics in econometrics, including sophisticated simultaneous equation estimation, asymptotic distribution theory, time series analysis, forecasting and Bayesian inference.

**ECON 7995. TEACHING INTRODUCTORY ECONOMICS. (0 Credits)**

This course is intended for graduate-student Teaching Fellows. It provides training in all aspects of teaching introductory courses in Macro and Microeconomics. The faculty instructor will visit each Teaching Fellow's classroom to observe and offer advise on theTF's lecture style and technique. Participants in this course will meet periodically to discuss all aspects of teaching, including the preparation of a syllabus, the use of instructor software, writing and grading exams, and developing assessments.

**ECON 8100. ECONOMICS INTERNSHIP. (0.5 Credits)**

The Economics Internship course provides Economics graduate students the opportunity to accumulate relevant professional experience and practical training that they may need.

**ECON 8570. Seminar in International Economics. (3 Credits)**

The seminar requires the preparation of a research paper on an aspect of international trade or international finance, such as the gains from trade, trade policies, economic integration, foreign direct investments, international migration, growth trade, trade and development; exchange rate dynamics, international financial flows, and the international monetary system. Requirements: International Trade (ECON 6510) and International Finance (ECON 6560)

**ECON 8600. RESEARCH AND WRITING IN ECONOMICS. (3 Credits)**

The course will aim to develop key skills for economics research. These skills will be imparted through lectures, discussions, presentations, homework assignments, and as part of a research paper the students will be required to prepare and present. The course will also provide a forum for students to present and discuss ideas, literature reviews and methodologies.

**ECON 8999. INDEPENDENT STUDY. (0 to 4 Credits)****ECON 9999. DISSERTATION DIRECTION. (1 Credit)**