ECONOMICS (ECON)

Explanation of Course Numbers

- Courses in the 1000s are primarily introductory undergraduate courses
- Those in the 2000s to 4000s are upper-division undergraduate courses that can also be taken for graduate credit with permission and additional work
- Those in the 6000s and 8000s are for master’s, doctoral, and professional-level students
- The 6000s are open to advanced undergraduate students with approval of the instructor and the dean or advising office

ECON 1000. Dean's Seminar. 3 Credits.
The Dean's Seminars provide Columbian College first-year students focused scholarship on specific intellectual challenges. Topics vary by semester; see department for more details.

ECON 1001. Principles of Mathematics for Economics. 3 Credits.
Prepares students for college instruction in principles of microeconomic and macroeconomic theory and in business, social science, and basic science courses that do not require knowledge of calculus. Restricted to students who have successfully completed high school algebra I and basic geometry prior to matriculation and who also have registered for and attended the first six weeks of instruction in ECON 1011 or ECON 1012 at GW.

ECON 1011. Principles of Economics I. 3 Credits.
Major economic principles, institutions, and problems in contemporary life. Microeconomics—supply and demand, the price system and how it works, competitive and monopolistic markets.

ECON 1012. Principles of Economics II. 3 Credits.
Continuation of ECON 1011. Major economic principles, institutions, and problems in contemporary life. Topics in macroeconomics, including national income concepts, unemployment and inflation, institutions of monetary control. Prerequisite: ECON 1011 OR HONR 2043.

ECON 2101. Intermediate Microeconomic Theory. 3 Credits.
Analysis of household economic behavior, including derivation of demand functions. Analysis of firm behavior, including derivation of supply frameworks. Demand and supply interaction under various market structures and in factor markets. Prerequisites: ECON 1011 and ECON 1012; and MATH 1221 or MATH 1231 or MATH 1252. Same as ECON 2103.

ECON 2102. Intermediate Macroeconomic Theory. 3 Credits.
Investigation of the determinants of national income, inflation, unemployment, and interest rates. Alternative business cycle theories, with emphasis on the role of imperfect information, uncertainty, and expectations. Prerequisites: ECON 1011 and ECON 1012 OR HONR 2043 and HONR 2044; and MATH 1221 or MATH 1231 or MATH 1252.

ECON 2103. Intermediate Microeconomic Theory: A Mathematical Approach. 3 Credits.
Analysis of household economic behavior, including derivation of demand functions, and of firm behavior, including derivation of supply frameworks; demand and supply interaction under various market structures and in factor markets; reliance on constrained and unconstrained optimization techniques when analyzing household and firm behavior. Corequisite: MATH 1232. Recommended for students pursuing the BS degree in economics. Prerequisites: ECON 1011 and ECON 1012 OR HONR 2043 and HONR 2044; MATH 1221 or MATH 1231 or MATH 1252.

ECON 2104. Intermediate Macroeconomic Theory: A Mathematical Approach. 3 Credits.
Development and application of mathematical models of aggregate economic behavior with a focus on the intertemporal choices made by households, firms, and governments. Corequisite: MATH 1232. Recommended for students pursuing the BS degree in economics. Prerequisites: ECON 1011 and ECON 1012; MATH 1221 or MATH 1231 or MATH 1252.

ECON 2121. Financial Economics. 3 Credits.
Economic analysis of key financial institutions, markets, and variables. Investigation of the performance of asset markets and the roles of money, credit, interest rates, and exchange rates. Examination of private sector institutions like equity markets and the banking system and the roles of regulators like the Federal Reserve. Prerequisite: ECON 1011- ECON 1012.

ECON 2122. Monetary Theory and Policy. 3 Credits.
Analysis of classic and modern monetary theories and their application to current economic conditions. The links between theory and policy. The altered role of money over time; the new money technology. Prerequisites: ECON 1011 and ECON 1012.

ECON 2123. Introduction to Econometrics. 3 Credits.
Joint offering of the Economics and Statistics Departments. Construction and testing of economic models: regression theory, parameter estimation, and statistical techniques applicable to economic models. Prerequisites: MATH 1221 or MATH 1231 or MATH 1252; STAT 1051 or STAT 1053 or STAT 1111. (Same as STAT 2123).
ECON 2136. Environmental and Natural Resource Economics. 3 Credits.
Analysis of a variety of environmental and natural resource problems. The economic causes of these problems, their consequences, and the relative merits of alternative policies for dealing with them. Prerequisite: ECON 1011- ECON 1012.

ECON 2148. Survey of Health Economics. 3 Credits.
Economic analysis of the determinants of demand, supply, output, and distribution in the health care sector, with special emphasis on current policy issues of access, quality, and cost. Credit may not be earned for both ECON 2148 and ECON 3148. Prerequisites: ECON 1011 - ECON 1012.

ECON 2151. Economic Development. 3 Credits.
Theories and empirical studies of the economic problems of developing countries. Prerequisites: ECON 1011 or HONR 2043 and ECON 1012 or HONR 2044.

ECON 2151W. Economic Development. 3 Credits.

ECON 2157. Urban and Regional Economics. 3 Credits.
Analysis of the determinants of urban growth and development; firm location; the functioning of urban land and housing markets. Prerequisites: ECON 1011 and ECON 1012.

ECON 2158. Industrial Organization. 3 Credits.
Analysis of market structure, conduct, and performance of firms in a market economy, with emphasis on case studies of U.S. industries. Prerequisite: ECON 1011- ECON 1012.

ECON 2159. Government Regulation of the Economy. 3 Credits.
Economic analysis of antitrust and regulation in the American economy. Prerequisite: ECON 1011- ECON 2101 or ECON 2158.

ECON 2160. Surv:Finance&Engineering Econ. 3 Credits.

ECON 2167. Economics of Crime. 3 Credits.
Analysis of crime, both empirical and theoretical, that examines the links between law and economics, the economics of criminal participation, and the economics of law enforcement. Prerequisites: ECON 1011 or HONR 2043; and ECON 1012 or HONR 2044.

ECON 2169. Introduction to the Economy of China. 3 Credits.
Background, organization, and operation of the economy. Appraisal of performance and analysis of problems of development. Prerequisites: ECON 1011 or HONR 2043 and ECON 1012 or HONR 2044.

ECON 2170. Introduction to the Economy of Japan. 3 Credits.
Analysis of the structure and growth of the Japanese economy. Prerequisites: ECON 1011 and ECON 1012.

ECON 2180. Survey of International Economics. 3 Credits.
Basic concepts of international trade and international finance, with emphasis on policy issues. Prerequisites: ECON 1011 or HONR 2043; and ECON 1012 or HONR 2044.

ECON 2181. International Trade Theory and Policy. 3 Credits.
The basis for international trade and the effect of trade on consumers, producers, and workers; causes and effects of the international movement of factors including foreign direct investment, outsourcing, and migration; and the impacts of trade policies and trade agreements. Credit may not be earned for both ECON 2181 and ECON 3181. Prerequisites: ECON 1011 or HONR 2043; and ECON 1012 or HONR 2044.

ECON 2182. International Macroeconomic Theory and Policy. 3 Credits.
Topics include the balance of payments, the determination of exchange rates and prices in open economies, the interaction of the exchange rate and domestic economic activity, international financial markets, and exchange rate and financial crises. Prerequisites: ECON 1011- ECON 1012.

ECON 2185. Economic History and Problems of Latin America. 3 Credits.
Analysis of present structures and problems of Latin American economies. Prerequisite: ECON 1011- ECON 1012.

ECON 2195W. Special Topics. 3 Credits.

ECON 2198. Special Topics in Economics - Regional. 3 Credits.
Topics cover individual countries or regions of the world and vary depending on current issues of interest and faculty availability. Prerequisites: ECON 1011 - ECON 1012.

ECON 2199. Special Topics in Economics. 3 Credits.
Topics vary depending on current issues of interest and faculty availability. Prerequisites: ECON 1011, ECON 1012.

ECON 3098. Variable Topics-Regional Econ. 1-9 Credits.

ECON 3105. Economic Forecasting. 3 Credits.
Theory and empirical analyses of economic trends and fluctuations; use of economic indicators and simple econometric models. Prerequisites: ECON 1011 and ECON 1012; and ECON 2102 or ECON 2104; and ECON 2123.

ECON 3142. Labor Economics. 3 Credits.
Analysis of labor supply and demand; measurement and theory of unemployment; occupational choice; wage differentials; labor market issues and policies. Prerequisite: ECON 1011- ECON 1012 and ECON 2101 or ECON 2103.

ECON 3148. Health Economics. 3 Credits.
Analysis of economic theories and applications to the demand for and supply of healthcare. Examination of the role of government in health care, public health, and unhealthy behavior (e.g., smoking). Credit may not be earned for both ECON 2148 and ECON 3148. Prerequisites: ECON 2101 or ECON 2103.
ECON 3161. Public Finance: Expenditure Programs. 3 Credits.
Economic analysis of government spending and social regulation programs. Topics include public goods, externalities, income transfer and social insurance programs, and benefit–cost analysis of government programs. Prerequisite: ECON 1011–ECON 1012 and ECON 2101 or ECON 2103.

ECON 3162. Public Finance: Taxation. 3 Credits.
Economic analysis of taxes. Topics include individual and corporate income taxes, payroll taxes, sales and excise taxes, property and wealth taxes, design of tax systems, and effects of taxation on labor and capital markets. Prerequisite: ECON 1011–ECON 1012 and ECON 2101 or ECON 2103.

ECON 3165. Economics of Human Resources. 3 Credits.
Economic analysis of education and training, labor market discrimination, marriage and the family, and social security. Prerequisites: ECON 1011 and ECON 1012; and ECON 2101 or ECON 2103.

ECON 3181. International Trade Theory. 3 Credits.
Rigorous examination of theories of international trade that explain why countries trade and their gains from trade. Theories include comparative advantage, the factor-proportions theory of trade, and recent theoretical developments. The course also deals with the theory of trade policies, such as tariffs and quotas. Credit cannot be earned for both ECON 2181 and ECON 3181. Prerequisites: ECON 2101 or ECON 2103; MATH 1221, MATH 1231, or MATH 1252.

ECON 3190. Law and Economics. 3 Credits.
An introduction to the economic analysis of legal systems. How laws alter behavior and how laws might be designed to satisfy efficiency and fairness criteria. Prerequisite: ECON 1011–ECON 1012 and ECON 2101 or ECON 2103.

ECON 3191. Game Theory. 3 Credits.
Introduction to game theory, covering concepts such as Nash equilibrium, evolutionary games, backward induction and subgame perfection, Bayesian–Nash games of imperfect information, adverse selection, and moral hazard. Prerequisites: ECON 1011 and ECON 1012; and ECON 2101 or ECON 2103.

ECON 3198. Advanced Topics in Economics - Regional. 3 Credits.
Topics cover individual countries or regions of the world and vary depending on current issues of interest and faculty availability. Prerequisites: Depending on the topic: ECON 2101 (or ECON 2103) or ECON 2102 (or ECON 2104) or ECON 2123.

ECON 3199. Advanced Topics in Economics. 3 Credits.
Topics vary depending on current issues of interest and faculty availability. Prerequisites: Depending on the topic: ECON 2101 (or ECON 2103) or ECON 2102 (or ECON 2104) or ECON 2123.

ECON 4198W. Proseminar in Economics. 3 Credits.
Preparation and presentation of a research paper in any field of economics agreed upon by the student and instructor. Includes a significant engagement in writing as a form of critical inquiry and scholarly expression to satisfy the WID requirement. Restricted to seniors in the economics program. Prerequisites: ECON 2101 or ECON 2103; and ECON 2102 or ECON 2104. Recommended background: Prior or concurrent enrollment in ECON 2123 or STAT 2112 or STAT 2118.

ECON 4199. Independent Research-Economics. 3 Credits.
Prerequisite: ECON 1011–ECON 1012 and completion of 12 hours of upper-division economics courses, including ECON 2101 or ECON 2103 and ECON 2102 or ECON 2104, with a minimum grade-point average of 3.4; and approval of an independent research project by a faculty member of the Economics Department.

ECON 6217. Survey of Economics I. 3 Credits.
Intermediate-level microeconomic theory for graduate students in fields other than economics.

ECON 6218. Survey of Economics II. 3 Credits.
Continuation of ECON 6217. Intermediate-level macroeconomic theory for graduate students in fields other than economics. (ECON 6217 and ECON 6218–).

ECON 6219. Managerial Economics. 3 Credits.
Intermediate microeconomic theory, with emphasis on production and costs, market structure and pricing, risk analysis, and investment theory and capital budgeting. Credit can be earned for only one of ECON 6217 or ECON 6219.

ECON 6237. Economics of the Environment and Natural Resources. 3 Credits.
Analysis of public policy problems relating to the environment and natural resources development and management. Prerequisite: ECON 6217.

ECON 6239. Economics of Defense. 3 Credits.
Economic analysis applied to national security planning and objectives. Analysis of defense establishment problems, including manpower, the defense industry base, procurement policy.

ECON 6248. Health Economics. 3 Credits.
Demand for medical care; organization of the health care delivery industry; policy issues on regulation, efficiency, and allocation of health care services.

ECON 6249. Industrial Org-TComm Industry. 3 Credits.
ECON 6250. Survey of Economic Development. 3 Credits.
An introduction to economic problems faced by less developed countries. Emphasis on applications to policymaking and evaluation. Prerequisite: ECON 6217 or ECON 6280 or equivalent.

ECON 6255. Economics of Technological Change. 3 Credits.
Economics of research and development; innovation and growth; the role of government in the development and use of new technology.
ECON 6269. Economy of China I. 3 Credits.
Analysis of organization, operation, policies, and problems. Development of the economy since 1949.

ECON 6270. Economy of China II. 3 Credits.
Continuation of ECON 6269. Examination of critical problems of development. Prerequisites: ECON 6269 or permission of the instructor.

ECON 6271. Economy of Japan. 3 Credits.
Analysis of Japanese economic institutions and their contribution to Japan's development.

ECON 6280. Survey of International Economics. 3 Credits.
Introductory international trade and finance, primarily for students in the Elliott School. Topics include the economic effects of trade liberalization and protection, exchange rate determination, and macroeconomic policies in an open economy. Prerequisite: ECON 1011 and ECON 1012.

ECON 6283. Survey of International Trade Theory and Policy. 3 Credits.
For graduate students in fields other than economics. Survey of international economics and policy; application of comparative advantage and other arguments for trade; impact of trade on a domestic economy; new arguments for protectionism; and regional trading blocs.

ECON 6284. Survey of International Macroeconomics and Finance Theory and Policy. 3 Credits.
For graduate students in fields other than economics. Open economy macroeconomics; international finance; balance of payments accounting; exchange markets; alternative models of balance of payments determination and adjustment; behavior of flexible exchange rate systems.

ECON 6285. Economic Development of Latin America. 3 Credits.
Diversity of structures of Latin American economies; import substituting industrialization; inflation; problems of underemployment and income distribution.

ECON 6286. Economic Development of Latin America. 3 Credits.
Continuation of ECON 6285. Structure of trade; protection, exports, and economic development; regional and global economic integration; foreign investment, multinational enterprise, and technology transfer.

ECON 6290. Principles of Demography. 3 Credits.
Introduction to basic demographic perspectives and data; methods for analysis of population size, distribution, and composition; determinants and consequences of population trends. Departmental prerequisite waived. Same as GEOG 6290/ SOC 6290/ STAT 6290.

ECON 6291. Methods of Demographic Analysis. 3 Credits.
Basic methods for analysis of mortality, natality, and migration; population estimates and projections; estimation of demographic measures from incomplete data. Departmental prerequisite waived. Same as GEOG 6291/ SOC 6291/ STAT 6291.

ECON 6292. Topics in International Trade. 3 Credits.
Topics on international trade issues and policy. Primarily for master's students in programs other than economics. May be repeated for credit if topic differs.

ECON 6293. Topics in International Finance. 3 Credits.
Topics on macroeconomic issues and policies in open economies, including exchange rate regimes, determinants of international capital flows, currency crises, financial contagion, current account sustainability and sovereign crises, fiscal problems, and macro-policies in emerging markets and mature economies.

ECON 6294. Topics in Economic Development. 3 Credits.
Topics on economic development issues and policy vary depending on faculty availability and interest. Primarily for master’s students in programs other than economics. May be repeated for credit if topic differs.

ECON 6295. Special Topics. 3 Credits.
Topics vary, depending on current issues of interest and faculty availability.

ECON 6298. Reading and Research. 3 Credits.
Limited to master’s degree candidates.

ECON 6300. Mathematical Methods for Economics. 3 Credits.
Instruction in the mathematical background required to appreciate and understand the use of mathematics in economic analysis, including multivariable calculus, integral calculus, and linear algebra. Emphasis on techniques for solving systems of equations, unconstrained and constrained optimization, comparative static analysis, difference equations, and analysis of dynamic models and their application to a range of economic problems. Restricted to students in the MA in applied economics program.

ECON 6301. Applied Microeconomic Theory. 3 Credits.
The principal areas of microeconomic theory: consumer demand, decision making under uncertainty, production and costs, game theory, and product markets; both competitive and imperfectly competitive, factor markets, and market failures. Emphasis on the application of theory to microeconomic issues of interest to the private and public sectors, such as product pricing, market entry and deterrence, competition policy, tax policy, and environmental regulation. Restricted to students in the MA in applied economics program. Prerequisite: ECON 6300.
ECON 6305. Applied Macroeconomic Theory. 3 Credits.
Development of an integrated framework for analyzing the determination of macroeconomic variables such as total production, unemployment, interest rates and inflation; interpreting macroeconomic data and macroeconomic policy. A key objective of the course is to provide a link between economic theory and current economic policy. Topics for application may include recent developments in monetary policy and causes of hyperinflation and the national debt. The level of mathematical rigor is above that in a typical intermediate undergraduate macroeconomics course, but below that in a first-year PhD course. ECON 6300 may be taken as a corequisite. Restricted to students in the MA in applied economics program. Prerequisite: ECON 6300.

ECON 6325. Applied Game Theory. 3 Credits.
Equilibrium concepts based on the Nash Equilibrium; application of these concepts to oligopolistic markets, long-term relationships in repeated games, auctions, reputation formation, and others. Students are expected to have completed a course in intermediate microeconomics and at least one semester of calculus at the undergraduate level before enrolling in this course. Prerequisites: Econ 6300; and Econ 6301 or ECON 6305.

ECON 6330. Applied Macroeconomics and Money. 3 Credits.
Motivations for employing the modern, expanded tools of a central bank; historical and present limitations. Prior completion of a third 6300-level economics course in addition to the stated prerequisites is required. Prerequisites: ECON 6301 and ECON 6305.

ECON 6335. Applied Financial Derivatives. 3 Credits.
Introduction to the theoretical and practical aspects of financial and derivative markets; application of quantitative and statistical approaches to a variety of problems. Prerequisites: ECON 6300 and ECON 6374.

ECON 6340. Applied Labor Economics and Public Policy. 3 Credits.
Topics in labor economics, including unemployment, unions, immigration, the minimum wage, pensions, worker mobility, and inequality. Prerequisite: ECON 6301.

ECON 6344. Applied Industrial Organization. 3 Credits.
The behavior of firms and implications of market structure and resource allocation; market participants, the role of transaction costs, product differentiation, imperfect knowledge, and market contestability. Public policy related to monopoly regulation and antitrust law. Use of standard microeconomic empirical and theoretical tools, including an introduction to game theory. Prerequisite: ECON 6301. Recommended background: Completion of a course in intermediate microeconomics and one semester of undergraduate calculus.

ECON 6350. Applied Development Economics. 3 Credits.
The complex causes of underdevelopment and contemporary ideas about how to make development succeed; theory underlying development economics, as well as the analytical tools used in development research. Students are expected to have a working understanding of the concepts of calculus. Prerequisites: ECON 6301, ECON 6305 and ECON 6375.

ECON 6374. Probability and Statistics for Economics. 3 Credits.
Focus on specific probability and statistical inference skills required for applied economic problems. Topics include laws of probability, limit laws, random events, independence and dependence, expectations, Bayes theorem, estimation, and hypothesis testing. Discrete and continuous random variables, density, and distribution functions. Various distributional models for observational data. Data manipulation and analysis using both SAS and Stata software. Emphasis on general methods applicable to econometrics. Restricted to graduate applied economics majors only.

ECON 6375. Applied Econometrics. 3 Credits.
An introduction to the skills needed to critically evaluate and conduct econometric analysis. Multiple regression analysis; theoretical underpinnings of the ordinary least squares estimator; interpreting regression results and how to address common issues that arise in regression analysis; econometric methods to estimate and test economic models and to address causal questions using observational data. Students build proficiency in using statistical software to perform basic econometric techniques studied in the course. Restricted to students in the MA in applied economics program. Prerequisites: ECON 6300 and ECON 6374.

ECON 6376. Time Series Analysis. 3 Credits.
The objective of this course is to give students the tools required to understand, implement, and interpret common models used in time series econometrics. Emphasis is placed on intuition and application. The course will both help students understand how to use time series data to test hypotheses and serve as an introduction to the ideas and techniques of forecasting. Topics covered are: time series properties of data (unit roots, near unit roots, stationarity), difference equations, stationary models (autoregressive and moving-average models), models with trends (deterministic and stochastic), multi-equation models (reduced-form and structural VARs), cointegration and error-correction models, models with time-varying coefficients, forecasting models, and basic forecast evaluation. Students will become proficient with performing basic time series analysis and forecasting using time series statistical software. Restricted to applied economics MA students only. Prerequisites: ECON 6374, ECON 6305.
ECON 6997. Independent Research. 1-3 Credits.
This course is limited to master’s degree candidates in Economics. Before permission is granted to register for ECON 6997, the student must submit a written plan of study for the approval of the staff member of the department who will be directing the research. The written plan must also be approved by the program director. This course may be repeated once for credit but to no more than a total of 6 credits.

ECON 6998. Thesis Research. 3 Credits.

ECON 6999. Thesis Research. 3 Credits.

ECON 8301. Microeconomic Theory I. 3 Credits.
Theory of unconstrained optimization; optimization subject to equality and inequality constraints, along with applications. Profit maximization, utility maximization and cost minimization, concave and quasi-concave functions, monotone comparative statics, duality theory, the envelope theorem and Le Chatelier principle, and the Kuhn–Tucker conditions.

ECON 8302. Microeconomic Theory II. 3 Credits.
Expected utility theory, general equilibrium in a pure exchange economy and economy with production, welfare theorems and the core theory of the competitive firm in the short run and long run, monopoly and price discrimination, models of oligopoly. Prerequisite: ECON 8301.

ECON 8303. Microeconomic Theory III. 3 Credits.
Theory of games, including Nash equilibrium and its refinements and comparative statics, evolutionary game theory, multistage games and subgame perfection, repeated games and oligopolistic supergames, static and dynamic Bayesian games, auction theory, and bargaining theory. Prerequisite: ECON 8301 and ECON 8302.

ECON 8305. Macroeconomic Theory I. 3 Credits.
Alternative theories of income, employment, and the price level; impact of monetary and fiscal policy; role of expectations in the economy; and microfoundations of macroeconomic models and dynamic analysis.

ECON 8306. Macroeconomic Theory II. 3 Credits.
Extensions of alternative models of income determination, economic growth, and the application of analytical frameworks to the U.S. and international economies. Prerequisite: ECON 8305.

ECON 8307. Macroeconomic Theory III. 3 Credits.
Extensions to stochastic and dynamic general equilibrium frameworks, with emphasis on economic policy. Prerequisite: ECON 8306.

ECON 8322. Monetary Theory and Policy I. 3 Credits.
Theory of monetary policy within the framework of contemporary American central banking.

ECON 8324. Monetary Theory and Policy II. 3 Credits.
Continuation of ECON 8323. Theory of monetary policy within the framework of contemporary American central banking.

ECON 8337. Environmental Economics. 3 Credits.

ECON 8341. Labor Economics I. 3 Credits.
Theory of wages and employment, analysis of labor supply and demand. Analysis of unemployment; unions; wage regulation.

ECON 8342. Labor Economics II. 3 Credits.
Continuation of ECON 8341. Theory of wages and employment, analysis of labor supply and demand. Analysis of unemployment; unions; wage regulation.

ECON 8345. Industrial Organization I. 3 Credits.
Economic theory and evidence regarding industrial market structure, conduct, and economic performance.

ECON 8346. Industrial Organization II. 3 Credits.
Continuation of ECON 8345. Economic issues in antitrust and government regulation of the U.S. economy.

ECON 8351. Development Economics I. 3 Credits.
Major analytic concepts, measures, theoretical models, and empirical methods of development economics.

ECON 8352. Development Economics II. 3 Credits.
Continuation of ECON 8351. In-depth examination of special research topics with emphasis on methods in applied microeconomics.

ECON 8357. Regional Economics. 3 Credits.
Study of regional planning and growth models, including input-output, programming, and econometric models used by planning agencies; analysis of interregional production, trade, migration, firm location, and pricing models.

ECON 8358. Urban Economics. 3 Credits.
Analysis of spatial relationships among economic activities within an urban area including the urban land, labor, and housing markets; urban transportation models; fiscal relationships among jurisdictions.

ECON 8363. Public Finance I. 3 Credits.
Theoretical and empirical analysis of the economic role of the public sector and the effects of public expenditures on resource allocation and income distribution. Topics include public goods, externalities, social insurance, and benefit-cost analysis.

ECON 8364. Public Finance II. 3 Credits.
Theoretical and empirical analysis of the effects of taxes and transfers on the allocation of resources and income distribution. Topics include partial and general equilibrium models of tax incidence, effects of taxes on labor supply, saving, and portfolio choices of households and on investment and financing decisions of firms.

ECON 8375. Econometrics I. 3 Credits.
Statistical foundations for econometrics; standard methods of estimation and inference for classical and generalized regression models. Same as STAT 8375.
ECON 8376. Econometrics II. 3 Credits.
Topics may include asymptotic theory, statistical endogeneity, instrumental variables estimation, discrete and limited dependent variable models, and time-series models. Same as STAT 8376. Prerequisite: ECON 8375.

ECON 8377. Econometrics III. 3 Credits.
Econometric methods for systems of equations and panel data, with additional topics that may vary from year to year. Prerequisite: ECON 8376.

ECON 8378. Economic Forecasting. 3 Credits.
Introduction to the theoretical and applied aspects of economic forecasting. Topics include the role of forecasting, univariate time-series analysis, single equation models, multiple series models, and evaluation of forecasts. Prerequisites: ECON 8375 or permission of the instructor.

ECON 8379. Laboratory in Applied Econometrics. 0-3 Credits.
Application of econometric theory and the use of econometric software; students are required to write an empirical research paper. The course usually deals exclusively with either micro or macroeconomic issues. May be repeated for credit provided the topic differs.

ECON 8381. International Trade Theory. 3 Credits.
International trade theory, including alternative models of the gains from trade and evaluations of the new justifications for protectionism, and analysis of commercial policy, factor flows, and trade and investment with multinational corporations. Prerequisite: most sections require calculus or permission of instructor.

ECON 8382. International Finance and Open-Economy Macroeconomics. 3 Credits.
International finance, including alternative models of balance of payments behavior and adjustment, payments accounting, exchange markets, and alternative exchange-rate regimes.

ECON 8383. International Financial Markets. 3 Credits.
Financial economics and international financial markets. Topics include standard asset pricing theory, uncertainty in open economy macroeconomics models, financial market microstructure, and incomplete markets.

ECON 8395. Advanced Special Topics. 3 Credits.
Topics vary depending upon current interests and faculty availability. Open to graduate students in economics. May be repeated for credit.

ECON 8397. Dissertation Proposal Seminar. 3 Credits.

ECON 8997. Independent Research. 3 Credits.
This course is limited to doctoral degree candidates in Economics. Departmental approval required to register. Before permission granted to register for ECON 8997, the student must submit a written plan of study for the approval of both the faculty member of the department who will be directing the research. And the Director of Graduate Studies for the PhD Program or the Department Chair. May be repeated for a total of 6 credits.

ECON 8998. Advanced Reading and Research. 1-12 Credits.
May be repeated for credit. Restricted to doctoral candidates preparing for the general examination.

ECON 8999. Dissertation Research. 3-12 Credits.
May be repeated for credit. Restricted to doctoral candidates.