College of Social Science
Department of Economics

201 Introduction to Microeconomics
Fall, Spring, Summer. 3(3-0) Not open to students with credit in EC 252H. Determinants of Gross National Product, unemployment, inflation and economic growth. National income accounting and fiscal policy. Aggregate demand, supply management and monetary policy.

202 Introduction to Macroeconomics
Fall, Spring, Summer. 3(3-0) Not open to students with credit in EC 252H. Determinants of Gross National Product, unemployment, inflation and economic growth. National income accounting and fiscal policy. Aggregate demand, supply management and monetary policy.

251H Microeconomics and Public Policy
Fall, Spring. 4(4-0) Not open to students with credit in EC 301. Theories of consumer behavior, production and cost, Output and price determination in competition and monopolies. Welfare economics, general equilibrium, externalities, and public goods.

252H Macroeconomics and Public Policy
Fall, Spring. 3(3-0) P: (EC 201 and EC 301) or EC 251H Not open to students with credit in EC 302. Theory of national income, unemployment, inflation and economic growth and its application to economic analysis and policy.

291 Cooperative Education for Business Students
Fall, Spring, 1(1-0) A student may earn a maximum of 3 credits in all enrollments for this course. Interdepartmental with Accounting and Finance and Hospitality Business and Management and Supply Chain Management. Administered by Supply Chain Management. R: Approval of department.

292 Cooperative Education for Business Students
Fall, Spring, Summer. 3(3-0) P: (EC 201 and EC 251H) or completion of Tier I Academic Program. Educational employment assignment approved by the Department of Supply Chain Management.

293 Cooperative Education for Business Students
Fall, Spring, 1(1-0) A student may earn a maximum of 3 credits in all enrollments for this course. Interdepartmental with Accounting and Finance and Hospitality Business and Management and Supply Chain Management. Administered by Supply Chain Management. R: Approval of department.

300 Intermediate Microeconomics
Fall, Spring, Summer. 3(3-0) P: EC 201 and (MTH 124 or MTH 132 or MTH 152H or LB 118) RB: EC 202 Not open to students with credit in EC 251H. Theories of consumer choice, production, cost, perfect competition, and monopoly. Welfare economics, general equilibrium, externalities, and public goods.

301 Intermediate Microeconomics
Fall, Spring, Summer. 3(3-0) P: EC 201 and (MTH 124 or MTH 132 or MTH 152H or LB 118) RB: EC 202 Not open to students with credit in EC 251H. Theories of consumer choice, production, cost, perfect competition, and monopoly. Welfare economics, general equilibrium, externalities, and public goods.

302 Intermediate Macroeconomics
Fall, Spring, Summer. 3(3-0) P: (EC 201 or EC 251H) and EC 202 Not open to students with credit in EC 252H. National income accounting. Determination of aggregate output, employment, price level, and inflation rate. Policy implications.

306 Comparative Economic Systems
Fall, 3(3-0) P: (EC 201 or EC 251H) and (EC 202 or EC 252H) Characteristics and functions of economic systems. Alternative patterns of economic control, planning, and market structure. Theories, philosophies, and experiences associated with capitalism, socialism, and mixed economies.

310 Economics of Developing Countries
Spring, 3(3-0) P: EC 201 or EC 251H Not open to students with credit in EC 410. Economic patterns and policy issues of developing countries such as modern economic growth and structural transformation, state controls versus markets, poverty and human welfare, investments in human resources, and trade and industrialization.

330 Money, Banking, and Financial Markets
Fall, Spring, Summer. 3(3-0) P: (EC 201 or EC 251H) and (EC 202 or EC 252H) Money markets and financial intermediation. Money, the Federal Reserve System, and monetary policy. Regulation of money markets.

331 Governments and Markets: When Laissez-Faire Fails
Fall, Spring, Summer. 3 credits. P: EC 201 or EC 251H. Economic and philosophical underpinnings of governmental intervention in the economy. Critical analysis of governmental interventions as solutions to contemporary economic and social problems.

335 Taxes, Government Spending and Public Policy
Fall, Spring, Summer. 3(3-0) Interdepartmental with Environmental Economics and Policy. Administered by Economics. P: EC 201 or EC 251H Not open to students with credit in EC 435 or EC 436. Economics of the public sector. Public goods, externalities, demand and incidence of tax system. Equitability and efficiency effects of government programs.

340 Survey of International Economics
Fall, Spring, Summer. 3(3-0) P: (EC 201 or EC 251H) and (EC 202 or EC 252H) Not open to students with credit in EC 440 or EC 441. Comparative advantage. Costs and benefits of trade. International economic policies. Balance of payments. Foreign exchange markets. The international monetary system. Contemporary trade and international currency issues.

360 Private Enterprise and Public Policy
Fall, Spring, Summer. 3(3-0) P: EC 201 or EC 251H Effects of antitrust, economic regulation, and other public policies on competition, monopoly, and other market problems in the United States economy.

370 Economics of Sports
Summer. 3(3-0) P: EC 201 or EC 251H Economic analysis of sports teams, leagues, and institutions. Strategic considerations, demand and pricing, betting markets, optimal compensation for athletes, the market for superstars, anti-trust and public finance issues.

380 Labor Relations and Labor Market Policy
Fall, Spring, Summer. 3(3-0) P: EC 201 or EC 251H Not open to students with credit in EC 480. Development, functions, legal framework, and economic effects of unions and collective bargaining. Institutions and economic impacts of government programs. Minimum wages, workers' compensation, unemployment insurance, and antidiscrimination policies.

391 Special Topics in Economics (W)
Fall, Spring, 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. P: (EC 201 or EC 251H) and (EC 202 or EC 252H) R: Approval of department. Special topics supplementing regular course offerings.

401 Advanced Microeconomics
Fall, Spring. 3(3-0) P: EC 251H or EC 301 Economics of uncertainty and incomplete information. Game theory and theories of oligopoly. Transaction costs. Advanced topics in welfare economics, general equilibrium, externalities, and public goods.

402 Advanced Macroeconomics
Fall, Spring. 3(3-0) P: (EC 251H or EC 301) and (EC 252H or EC 302) Consumption, investment, and monetary theories. The role of expectations. Theories of economic growth and cycles. Stabilization policies.

406 Economic Analysis of Russia and the Commonwealth of Independent States (W)
Spring of even years. 3(3-0) P: (EC 202 or EC 252H) and (EC 301 or EC 251H) and Completion of Tier I Writing Requirement. Analysis of structure and performance of planning, transition economy, and post-transition economy in Russia and the Commonwealth of Independent States (CIS) with focus on micro foundations of macroeconomic outcomes.

410 Issues in the Economics of Developing Countries (W)
Fall. 3(3-0) P: (EC 202 or EC 252H) and (EC 301 or EC 251H) and Completion of Tier I Writing Requirement. Topics in development economics, such as growth, technological change, structural transformation, poverty and inequality, investment in human resources, trade, international capital flows, and the political economy of policy formation and governance.

412 Economic Analysis of Latin America (W)
Fall of even years. 3(3-0) P: (EC 202 or EC 252H) and (EC 301 or EC 251H) and Completion of Tier I Writing Requirement. Population growth, agriculture, and urbanization. Dependence on primary exports and import protection. Inequality and populist-orthodox policy cycles. Hyperinflation, international debt crises, and adjustments. United States policy interests and interventions.
Economics—EC

413 Economic Analysis of Asia (W)
Fall of odd years. 3(3-0) P: (EC 202 or EC 252H) and (EC 301 or EC 251H) and Completion of Tier I Writing Requirement
Development of agriculture, industry, labor markets, and trade in some of the following: India and South Asia, China, the Pacific Rim countries, and Japan. Productivity, income distribution, finance, and planning.

414 Economic Analysis of Sub-Saharan Africa (W)
Fall of odd years. 3(3-0) P: (EC 202 or EC 252H) and (EC 301 or EC 251H) and Completion of Tier I Writing Requirement
African economic development in historical perspective. Contemporary development issues including agricultural policies, industrial development, foreign trade and aid, human resource investments, AIDs, and the political economy of economic and political policies and reforms.

420 Introduction to Econometric Methods
Fall, Spring. 3(3-0) P: (EC 202 or EC 252H) and (EC 251H or EC 301) and (MTH 124 or MTH 132 or MTH 132H or LB 116) and (STT 315 or STT 421 or STT 430 or STT 441)

421 Advanced Econometric Methods
Spring of even years. 3(3-0) P: EC 420
Panel data methods, instrumental variables, limited dependent variables, time series analysis, and other advanced topics.

425 Law and Economics (W)
Fall. 3(3-0) Interdepartmental with Finance. Administered by Economics. P: (EC 251H or EC 301) and Completion of Tier I Writing Requirement
Application of economic analysis to the law. Property rights, takings, the Coase Theorem. The economics of regulation, crime and punishments, liability law, and public choice.

435 Public Expenditures (W)
Fall. 3(3-0) P: (EC 251H or EC 301) and Completion of Tier I Writing Requirement

436 Public Revenues (W)
Spring. 3(3-0) P: (EC 251H or EC 301) and Completion of Tier I Writing Requirement
Principles and theory of efficiency and the incidence of taxation. Income and sales taxes and other major revenue sources.

438 Urban Economics (W)
Fall. 3(3-0) P: (EC 202 or EC 252H) and (EC 301 or EC 251H) and Completion of Tier I Writing Requirement
Economic analysis of cities and urban regions. City growth or contraction, land-use patterns, transportation systems, housing and housing policies, functioning of local governments, policy responses to crime, pollution and poverty.

440 International Trade (W)
Fall. 3(3-0) P: (EC 251H or EC 301) and Completion of Tier I Writing Requirement
Neoclassical and modern theories regarding trade patterns and commercial policies. Applications of theory to United States policy. Contemporary issues involving international trade of goods, services, and productive factors.

441 International Finance (W)
Spring. 3(3-0) P: (EC 251H or EC 301) and (EC 252H or EC 302) and Completion of Tier I Writing Requirement
Neoclassical and modern theories pertaining to balance of payments and exchange rate determination. Macroeconomic performance under alternative exchange rate regimes. Contemporary issues involving international monetary arrangements.

450 Economics of Environmental Policy (W)
Spring. 3(3-0) P: (EC 301 or EC 251H) and Completion of Tier I Writing Requirement

460 American Industry: Structure and Behavior (W)
Fall, Spring. 3(3-0) P: (EC 251H or EC 301) and Completion of Tier I Writing Requirement
Market structure and performance. Empirical analysis of market definition, concentration, product differentiation, vertical integration, innovativeness, collusion, and entry deterrence.

480 Analysis of Labor Markets (W)
Fall, Spring. 3(3-0) P: (EC 251H or EC 301) and Completion of Tier I Writing Requirement
Labor supply and demand. Human capital, search, migration, and labor turnover. Analysis of unemployment and wage growth. Structure of wages, including economics of discrimination.

485 Economics of Education (W)
Fall. 3(3-0) P: (EC 251H or EC 301) and Completion of Tier I Writing Requirement
The intersection of economics and education with a focus on U.S. education policy. Human capital, education production, and education reforms.

490 Independent Study
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 3 credits in all enrollments for this course. P: (EC 202 or EC 252H) and (EC 251H or EC 301) R: Approval of department.
Research and reading course for students interested in doing independent work in economics under faculty supervision.

491 Advanced Topics in Economics
Fall, Spring. 3(3-0) A student may earn a maximum of 3 credits in all enrollments for this course. P: (EC 251H or EC 301) and (EC 252H or EC 302) and (MTH 124 or MTH 132 or MTH 152H) R: Approval of department.
Advanced work in specialized topics of economics.

495 Economics of Poverty and Income Distribution (W)
Fall. 3(3-0) P: (EC 251H or EC 301) and Completion of Tier I Writing Requirement

498 Economics of Health Care (W)
Fall of odd years. 3(3-0) P: (EC 251H or EC 301) and Completion of Tier I Writing Requirement

499 Senior Seminar for Economics Majors (W)
Fall, Spring. 3(3-0) P: (EC 251H or EC 301) and (EC 252H or EC 302) and (EC 420 and completion ofTier I writing requirement) R: Open to seniors in the Economics Major.
Capstone course for economics majors. Reading and discussion concerning selected economics topics. Preparation and presentation of student research project.

810 Institutional and Behavioral Economics
Fall. 3(0) Interdepartmental with Agricultural, Food, and Resource Economics. Administered by Agricultural, Food, and Resource Economics. RB: EC 301 SA: AEC 810
Relationships among institutions, individual and collective actions, and economic performance. Public choice, property rights, and behavioral theories of firms and bureaucracies.

811A Mathematical Applications in Economics
Fall. 2(2-0) R: Open only to doctoral students in the Economics major or the Department of Agricultural Economics or the Business Administration major or approval of department. (EC 811A concurrently.

811B The Structure of Economic Analysis
Spring. 2(2-0) P: EC 811A SA: EC 811 C: EC 813B concurrently.
Static and dynamic decision models in economics. Concepts of equilibrium, stability, comparative statics, and duality.

812A Microeconomics I
Fall. 3(3-0) P: Open to doctoral students in the Eli Broad College of Business and The Eli Broad Graduate School of Management or in the Department of Agricultural, Food, and Resource Economics or in the Economics major or approval of department. C: EC 811A concurrently.
Consumption theory, including choice under uncertainty. Theory of production in perfectly competitive markets. General equilibrium in the presence of perfect competition. Efficiency properties of competitive equilibria.
820A Econometrics IA
Fall, 3(3-0). R: Open only to doctoral students in the Economics major or the Department of Agricultural Economics or the Business Administration major or approval of department. Statistical tools for econometrics. Applications of statistical tools, including probability distributions, estimation, hypothesis testing, and maximum likelihood to econometric problems.

820B Econometrics IB

821A Cross Section and Panel Data Econometrics I

821B Cross Section and Panel Data Econometrics II

822A Time Series Econometrics I

822B Time Series Econometrics II
Spring, 3(3-0) Interdepartmental with Agricultural Economics and Finance and Statistics and Probability. Administered by Economics. P: EC 822A. Analyses of multivariate time series, time series volatility models, long memory, nonlinear time series models, and other advanced topics.

823 Applied Econometrics
Fall, 3(3-0) P: EC 820A and EC 820B. Problems of estimating models and testing hypotheses from economic theory. Applications of various econometric models to economic problems and policy analysis.

829 Economics of Environmental Resources
Spring, 3(3-0) Interdepartmental with Agricultural, Food, and Resource Economics and Community Sustainability and Forestry and Fisheries and Wildlife. Administered by Agricultural, Food, and Resource Economics. RB: Undergraduate intermediate microeconomics, calculus, and statistics SA: AEC 829. Economic principles, theoretical models, and empirical methods related to environmental problems and policy interventions. Applications to air, land, water, forests, energy, fish and wildlife, and climate change, including in developing countries.

830 Advanced Macroeconomics and Monetary Theory

831 Problems in Monetary Theory and Policy
Spring, 3(3-0) P: EC 813A and EC 820A. Topics on macroeconomics with a strong applied emphasis.

835 Public Expenditures
Fall, 3(3-0) P: EC 812A. Allocative and distributional effects of public expenditure. Public goods and externalities. Selected topics in public expenditure analysis such as cost-benefit analysis, fiscal federalism, mechanism design, public choice, and general equilibrium models.

836 Public Revenues
905 Graduate Reading in Economics
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department.
Faculty guided research projects.

911 Strategic Behavior in Economic Environments
Fall. 3(3-0) P: EC 812B
Topics in cooperative and non-cooperative game theory. Applications include: oligopoly and bargaining theories, strategic voting and principal agent models, endogenous coalition formation, signalling, strategic trade, and auction theories.

912 Risk, Uncertainty and Information
Spring. 3(3-0) P: EC 812A and EC 812B RB: EC 812A
Effects of risk in economic environments. Topics include: expected utility theory, risk aversion, stochastic dominance, mean-variance models, state preference models, general equilibrium models with risk, information theory.

923 Advanced Environmental and Resource Economics
Fall. 3(3-0) Interdepartmental with Agricultural, Food, and Resource Economics and Forestry. Administered by Agricultural, Food, and Resource Economics. RB: (AFRE 829 or concurrently) and EC 812A SA: AEC 923
Advanced economic theory of environmental management and policy. Treatment of externalities and market and non-market approaches to environmental improvement. Topics in conservation and sustainable economic growth. Applications to research and policy.

925 Advanced Natural Resource Economics
Spring. 3(3-0) Interdepartmental with Agricultural, Food, and Resource Economics. Administered by Agricultural, Food, and Resource Economics. RB: EC 812A and AFRE 829 SA: AEC 991H, AEC 925
Economic theory of managing nonrenewable and renewable resources, including optimal use, the incentives for use under decentralized markets, and public policy design. Analysis of the co-evolution of economic and ecological systems.

950 Research Seminars in Advanced Topics in Economics
Fall, Spring. 1(1-0) A student may earn a maximum of 2 credits in all enrollments for this course.
Current research topics in applied economics.

951 Research Seminars in Advanced Topics in Economics II
Spring. 1(1-0) R: Open to doctoral students in the Department of Economics
Current research topics in Applied Economics II.

992 Advanced Topics in Economics
Fall of odd years. 3(3-0) A student may earn a maximum of 9 credits in all enrollments for this course. RB: EC 811A and EC 811B and EC 812A and EC 812B and EC 813A and EC 813B and EC 820A and EC 820B R: Open only to doctoral students in the Economics major or approval of department.
Advanced work in a specialized topic in economics.

999 Doctoral Dissertation Research
Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 36 credits in all enrollments for this course. R: Open to doctoral students.
Doctoral dissertation research.