

ECONOMICS (ECON)

ECON 1501 Economics in Action 3 s.h.

An introduction to the United States' economic system and institutions through the examination of current economic problems. Not applicable for a major or minor in economics. Credit will not be given for 1501 if a student has already received credit for ECON 2610 or its equivalent.

Gen Ed: Social Science.

ECON 1502 Panic and Prosperity, United States Economic Policy Since the Great Depression 3 s.h.

Examines the crises and successes of the American economy since 1929, and how the economic policies of different presidential administrations affected the lives of U.S. citizens. Not applicable towards a major or minor in economics.

Gen Ed: Social Science.

ECON 1503 Rich and Poor: Diversity and Disparity in the United States Workplace 3 s.h.

Examines how labor markets determine the distribution of income and the dramatic changes in the composition of the American labor force. Explores such issues as the widening gap between low and upper income groups, the characteristics of the poor, affirmative action, the glass ceiling, the mommy track, and family-friendly working environments. Not applicable towards a major or minor in economics.

Gen Ed: Domestic Diversity, Social Science, Social and Personal Awareness.

ECON 1504 Economics of Aging 3 s.h.

An introduction to the economic consequences of an aging population and the economic status of the aged. Topics include income adequacy in old age, retirement decisions, retirement income planning, social security income, employer-sponsored pensions, and financing health care. Not applicable toward a major or minor in economics.

Prereq.: ECON 1501 or GERO 1501.

ECON 1505 Introduction to Personal Financial Literacy 3 s.h.

An introduction to personal financial planning. Topics covered include budgeting, the use of credit, taxes, savings accounts, investment strategies, insurance, buying a home, career planning, and retirement planning. Students will gain the knowledge and resources to be better prepared for their financial future.

Gen Ed: Well Being, Social and Personal Awareness.

ECON 2610 Principles 1: Microeconomics 3 s.h.

Introduction to the theory of markets, including the behavior of consumers and the conduct of private and public business enterprise. Effects of monopoly and competition on private and social welfare. The role of government in promoting the economic welfare of consumers, workers, and minorities.

Prereq.: Level 20 or higher on the math placement exam.

Gen Ed: Social Science.

ECON 2630 Principles 2: Macroeconomics 3 s.h.

Studies of growth, inflation, and unemployment at the national level and the performance of the U.S. economy in the global setting. The impacts of national economic policies on individual and social welfare. An extensive discussion and evaluation of the U.S. banking system and its effects on individuals and businesses.

Prereq.: ECON 2610.

Gen Ed: Social Science.

ECON 2631 Introductory Macroeconomics for Education Majors 3 s.h.

Measurement of the national economy's performance (growth, inflation, and unemployment), the banking system, the impact of government on macroeconomic performance, and international macroeconomics. Principles of personal finance, including budgeting, the use of credit, and financial planning are also discussed. Open only to education majors. Credit will not be given for both ECON 2630 and ECON 2631.

Prereq.: FOUN 1501 and ECON 2610.

ECON 3701 Money and Banking 3 s.h.

Organization and operation of commercial banking in the United States; central banking under the Federal Reserve System; basic theory. Monetary policy as a determinant of national income.

Prereq.: ECON 2630.

ECON 3702 Public Finance 3 s.h.

The development and present status of public finance; federal, state and local expenditures and taxation; theories of tax incidence, axioms of taxation, theories in justification and government spending; tax reform. Study of the techniques of fiscal policy with emphasis on its role as a determinant of the level of national income.

Prereq.: ECON 2610.

ECON 3703 Behavioral Economics 3 s.h.

Uses insights from economics and psychology to explain why normally rational people make poor choices in their lives, be it in terms of money, health, education or long-term happiness. This introductory course explores the sources of poor economic choices and examines ways to improve them.

Prereq.: ECON 2610 or PSYC 1560.

ECON 3704 Emerging Economies in Asia 3 s.h.

Introduction to emerging economies in Asia, mainly in East Asia and India where the economies in recent decades have generally performed well compared with the rest of the world. Focus is on the development strategies and policies of the region's major economies with an aim in contrasting their experience with the industrialized nations in the West.

Prereq.: ECON 1501, ECON 2610, or ASST 1550.

ECON 3705 Environmental and Resource Economics 3 s.h.

Application of economic theory to environmental problems, analysis of policy alternatives for pollution abatement, and the conservation of exhaustible resources. Determination of efficient management of local and national pollution levels, including air, water, and toxic substances. Possible economic consequences associated with global warming.

Prereq.: ECON 1501 or ECON 2610.

ECON 3710 Intermediate Microeconomic Theory 3 s.h.

A systematic analysis of the theory of demand and the theory of the firm: production input and output choices, and some basic concepts of linear programming. An intensive analysis of the theory of the firm: competitive pricing, monopoly pricing, pricing in imperfect competition; and the theory of rent, profits, interest and wages.

Prereq.: ECON 2610, and either MATH 1552, MATH 1570, or MATH 1571; For Actuarial Science minors, the prerequisite is either MATH 1571 or MATH 1572.

ECON 3712 Intermediate Macroeconomic Theory 3 s.h.

The construction of national income and production accounts and the basic determinant of income, output, and employment. Determination of the level of employment, interest, and money through the classical versus Keynesian aggregate economics.

Prereq.: ECON 2630 and either MATH 1552, MATH 1570, or MATH 1571; For Actuarial Science minors, the prerequisite is either MATH 1571 or MATH 1572.

ECON 3720 Comparative Economic Systems 3 s.h.

An examination of the recent world-wide trend toward free market economy, giving particular attention to basic processes such as resource allocation and product distribution. Frequent references are made to the failure of Socialism in the USSR and the new approach in Russia, Eastern Europe and China toward market economies.

Prereq.: ECON 1501 or ECON 2630.

ECON 3724 Public Budgeting 3 s.h.

Study of the politics, theories, and techniques of public budgeting. Includes the process of budget preparation, adoption and execution. Topics include debt management and capital budgets. (This course is cross-listed with POL 3724.)

Prereq.: POL 3720.

ECON 3740 Sports Economics 3 s.h.

Economic analysis of individual, team, and league sports. This course focuses not only on the market structure and industrial organization of sports leagues, but also addresses the public finance issues of municipal stadium construction and the labor issues involved with free agency and salary caps.

Prereq.: ECON 2610.

ECON 3788 Statistics for Business and Economics 1 3 s.h.

Introduction to statistical methods in data analysis and forecasting. Topics include descriptive statistics, probability, sampling and sampling distributions, and hypothesis testing. Practical application of statistical procedures is incorporated into regularly scheduled computer workshops. Credit will not be given for ECON 3788 if a student has already received credit for ECON 3790 or its equivalent.

Prereq.: MATH 1510.

ECON 3789 Statistics for Business and Economics 2 3 s.h.

This course builds on concepts introduced in ECON 3788. Specific topics include hypothesis testing, regression analysis, ANOVA and time series analysis. Practical application of statistical procedures is incorporated into regularly scheduled computer workshops. Credit will not be given for ECON 3789 if a student has already received credit for ECON 3790 or its equivalent. 3 s.h.

Prereq.: ECON 3788.

ECON 4810 Managerial Economics 3 s.h.

An application of economic analysis to business problems. Emphasis upon executive decisions for the allocation of resources.

Prereq.: ECON 2610.

ECON 4855 Health Economics 3 s.h.

Application of basic principles to the study of the health care industry. Topics include the supply and demand of medical care, the effects of private and public insurance on the health care industry, trends in health care costs, public policies to equalize access to medical care and the dilemma caused by the improvement in life-sustaining technology.

Prereq.: ECON 2610.

ECON 4860 Selected Topics in Economics 3 s.h.

Advanced study of selected topics in economic analysis and issues in economic policy. May be repeated once with different topic.

Prereq.: ECON 2610 and ECON 2630.

ECON 4870 Economics Internship 3 s.h.

The practical application of economic knowledge and statistical skills in the workplace. Students assist professionals in various kinds of industrial, financial, and public service organizations.

Prereq.: By permit only, minimum GPA 2.5.

ECON 4880 Analysis of Economic Problems 3 s.h.

The application and extension of the student's skills in economic analysis and statistical techniques to economic issues. The course covers sources of data, exploratory data techniques, matching of data and statistical tests, interpretation and presentation of the results. Students demonstrate their command of research techniques by the completion of a research paper and oral presentation. Topics to be determined.

Prereq.: ECON 3710, ECON 3712, and ECON 3790; or ECON 3788 and ECON 3789; or ECON 3788 and BUS 3700.

Gen Ed: Capstone.

ECON 4898 Graduate Study in Selected Economic Topics 3 s.h.

For undergraduates taking courses in the MA in Economics program for credit towards an undergraduate degree. Credit earned cannot be later applied to a graduate degree. The student must meet the criteria for undergraduate students taking graduate coursework listed in the Graduate Bulletin. May be repeated with different graduate courses.

Prereq.: A minimum of 20 hours of coursework in economics at the 2600 level and above, permission of the chair, junior standing.

ECON 4899 Individual Study in Economics 1-4 s.h.

Individual study of a topic, area, or problem requiring in-depth reading, and a written project. May be repeated once with a different topic, area, or problem.

Prereq.: Junior or senior standing, by permit only.

ECON 5801 Economics of Industrial Organization 3 s.h.

A systematic analysis of the structure, conduct, and performance of American industry. A quantitative analysis plus a comprehensive review of theoretical models of the market, firm behavior, and performance.

Prereq.: ECON 2610.

ECON 5806 History of Economic Thought 3 s.h.

Designed to provide students with an understanding of the development of economic ideas to include: Mercantilism, Physiocrats, the English Classical School, Utilitarianism, early Social Thought, Karl Marx, the German Historical School, Institutionalists and the Keynesian School.

Prereq.: ECON 2630.

ECON 5809 Current Problems in Money, Banking, and Financial Markets 3 s.h.

The financial market system, including money and capital markets. Current problems associated with trends in theory and practice. Theories of the interest rate and monetarism.

Prereq.: ECON 3701 or consent of instructor.

ECON 5811 International Trade 3 s.h.

Theories of international trade and specialization; free trade vs. protectionism; tariff and non-tariff barriers to international trade; international balance of payments and its components; the role of multinational enterprises in contemporary trade pattern; regional economic integrations and world trade; U.S. commercial policies.

Prereq.: ECON 2630.

ECON 5812 International Finance 3 s.h.

Theories of foreign exchange and capital movements, international payments, analysis of spot and forward foreign exchange markets, foreign exchange market arbitrage, speculation, and risk hedging. The Bretton Woods agreement and the contemporary international monetary system. The rise of international organizations and multinational enterprises in the international economy.

Prereq.: ECON 2630.

ECON 5822 Urban and Regional Economics 3 s.h.

Economic analysis of the problems of urbanized areas and the causes of the growth or decline in economic activity in small-area economics. Topics include benefit-cost analysis, economic base analysis, input-output applications, and the theory of location and agglomeration.

Prereq.: ECON 2610.

ECON 5824 Applied Time Series Analysis of Economic and Business Data 3 s.h.

An in-depth analysis of time series models and their applications to problems in economics and business. Emphasis on forecasting. Extensive use of standard computer programs.

Prereq.: ECON 2610 and STAT 4817 or ECON 3790 or (ECON 3788 and ECON 3789) or (ECON 3788 and BUS 3700).

ECON 5831 Labor Markets and the Economics of Unions 3 s.h.

Economic theory and analysis of labor as an input in the resource market; principles, labor problems, public policy; theories of the development of the labor movement; economic objectives of trade unions; problems in public control.

Prereq.: ECON 2610.

ECON 5843 Economics of Poverty, Transfers and Discrimination 3 s.h.

Examines the measurement and causes of poverty, trends in the distribution of income, and antipoverty programs and their effectiveness. Discussions of theories of discrimination, difficulties in measuring the impact of discrimination, and policies designed to reduce discrimination.

Prereq.: ECON 2610.

ECON 5850 Introduction to Game Theory 3 s.h.

Topics include (not limited to) Nash equilibrium, pure/mixed strategy, static/dynamic games, repeated games and coordination, perfect/incomplete information, etc.

Prereq.: ECON 2610.

ECON 5853 Applied Econometrics 3 s.h.

The practice of econometrics with emphasis on model construction, estimation, and interpretation of results. Applications in the private and public sectors involve the use of computers and economic software.

Prereq.: ECON 2630 and ECON 3788.

ECON 5856 Topics in Quantitative Economics 3 s.h.

Application of different tools of mathematical economics, computational economics, and econometrics in conjunction with economic theory to model economic problems of firms, consumers, financial institutions, and public sectors. Specific content of the course will vary with the instructor. May be repeated once with a different topic.

Prereq.: ECON 3788.

ECON 5861 SAS Programming for Data Analysis 3 s.h.

An introduction to SAS programming for data analytics. Topics include using SAS for data processing, manipulation, visualization, reporting, and statistical analysis. The objective is for students to develop statistical computing skills for problem solving and decision making. Cross-listed: STAT 5811.

Prereq.: STAT 2601 or STAT 3717 or STAT 3743 or ECON 3790, or ECON 3788 and ECON 3789, or ECON 3788 and BUS 3700.

ECON 6900 Statistical Problems 3 s.h.

A survey of the fundamental statistical techniques used in business with special emphasis on interpreting the results generated by statistical software. Techniques covered: hypothesis tests of means and proportions, estimation, chi-square tests, analysis of variance, correlation, and regression. Not applicable toward the M.A. in economics.

ECON 6904 Quantitative Methods for Economics 3 s.h.

A course designed to provide graduate students in economics with an opportunity to acquire the necessary skills in using the quantitative methods that are required to complete graduate-level economic theory and econometrics courses successfully. The course introduces the basic concepts and procedures of differential and integral calculus that are used in economic analysis, as well as the fundamental probability and statistics which are needed in the study of econometrics.

ECON 6912 Microeconomic Theory 3 s.h.

Study of demand and supply, consumer theory, the theory of the firm, various market structures, and Pareto efficiency.

ECON 6915 Health Policy 3 s.h.

A theoretical and empirical analysis of the health care sector. Topics include the demand for health care and health insurance, the perverse incentives of health insurance, moral hazard, physician and hospital behavior, and the role of competitive markets in the delivery of health care. Special emphasis is placed on the analysis of public policy, including financing and regulating the health care industry.

Prereq.: admission into the MA in Economics or MA in Financial Economics programs or permission of instructor.

ECON 6921 Economic Analysis of Markets and Industries 3 s.h.

Participants will learn to analyze and understand the impact economic factors (e.g., information, consumer behavior, supply and demand) have on shaping markets and industries. Using this knowledge, participants will be capable of assessing the different types of economic strategies (e.g., product differentiation, pricing, advertising and signaling) an organization can employ to gain market power to realize economic profits.

Prereq.: Graduate standing.

ECON 6922 Macroeconomic Theory 3 s.h.

Examines models used to determine the value of various aggregate economic variables, such as the price level, national income, employment, interest rates, and wage rates.

ECON 6939 The Economics of Financial Markets and Institutions 3 s.h.

Study of the institutions, instruments, and markets that facilitate the distribution of financial resources throughout the economy. The course discusses the money, capital, and commodity markets. Also, the topics of accessing default risk and hedging against market risk are discussed.

Prereq.: admission into the MA in Economics or MA in Financial Economics programs or permission of instructor.

ECON 6940 Financial Economics 3 s.h.

Study of various topics, including risk and the selection of the optimal monetary control tool, politics and monetary control, the financial firm as an optimizing institution, and portfolio theory.

Prereq.: ECON 6939 or permission of the instructor.

ECON 6941 Monetary Economics 3 s.h.

Study of the empirical analysis using multivariate time series methods, including the topics of distributed lag models, selection of the appropriate lag structures, causation versus correlation, and cointegration.

Prereq.: ECON 6922 or permission of the instructor.

ECON 6945 Public Finance 3 s.h.

Study of the role of the government in the economy. The topics covered will include expenditure analysis, theories of taxation, provision of public goods, fiscal federalism, and public choice theory.

Prereq.: ECON 6912.

ECON 6946 State and Local Public Finance 3 s.h.

Study of the special problems of financing subnational governments. Topics include the optimal level of local government spending, public choice through voting, public choice through migration, the combination of taxes used by state and local governments, the theory of tax incidence, the effect of intergovernmental grants, and expenditure patterns of local governments. Special attention will be given to local governmental grants and expenditure patterns of local governments, as well as local governments' role in financing education and transfer payments.

Prereq.: admission into the MA in Economics or MA in Financial Economics programs or permission of instructor.

ECON 6952 Transfer Programs and Poverty 3 s.h.

A study of poverty and the effectiveness of antipoverty programs. Topics include defining and measuring poverty, trends in the rate of poverty and the distribution of income, causes of poverty, models of discrimination, effectiveness of government training programs, transfer programs and their effect on labor supply, and the financial stability of the Social Security retirement program.

Prereq.: admission into the MA in Economics or MA in Financial Economics programs or permission of instructor.

ECON 6955 Antitrust and Market Structure 3 s.h.

Study of the pivotal court decisions that have determined the direction of antitrust law. Concentration is on the economic analysis of court decisions and the impact of the courts' decision on market structure. Topics covered include price fixing, mergers, monopolization, and exclusion practices.

Prereq.: admission into the MA in Economics or MA in Financial Economics programs or permission of instructor.

ECON 6970 Economics Internship 3 s.h.

The practical application of economic knowledge and statistical skills in the workplace. Students assist participating professionals in various kinds of industrial, financial, and public service organizations. By permit only.

Prereq.: ECON 6912 and ECON 6922.

ECON 6976 Econometrics 3 s.h.

Study of the fundamentals of econometric techniques that are useful for estimating causal economic relationships. The objectives include (1) analysis of the effects of exogenous factors on the variable whose behavior we seek to explain, (2) testing of hypotheses about new and existing economic theories, and (3) forecasting estimated economic relationships beyond the sample period for the purpose of planning and control. The course will focus on the practice of econometrics with extensive applications to a variety of real-world problems in many areas of economics.

Prereq.: ECON 6904.

ECON 6980 Applied Time Series Analysis and Forecasting 3 s.h.

Covers essential tools for time series analysis and forecasting with emphasis on how to apply those tools to analyze and forecast economic and business data. Topics include ARMA models, Time Series Decomposition, Exponential Smoothing, GARCH, VAR models, and Cointegration.

Prereq.: ECON 2610 and ECON 3789 or ECON 3790 or ECON 6976 or STAT 5817.

ECON 6981 International Finance 3 s.h.

Study of the foreign exchange market; the business and economic consequences of changes in domestic and foreign banking; central banking; and financial market policies. The development of various exchange rate standards, foreign currency markets, and the Eurocurrency and Eurobond markets.

Prereq.: admission into the MA in Economics or MA in Financial Economics programs or permission of instructor.

ECON 6985 International Trade and Development 3 s.h.

Study of the determination of a country's exports and imports, the social welfare consequence of trade, free trade versus restricted trade, preferential trading agreements, and the current composition and direction of U.S. trade.

Prereq.: admission into the MA in Economics or MA in Financial Economics programs or permission of instructor.

ECON 6988 Modeling in Financial Economics 3 s.h.

A study of modeling and evaluation of derivatives and bonds and risk management using derivatives. Topics cover various models in asset evaluation, such as bond price models, the Black-Sholes model, diffusion processes, and risk management. Also listed as STAT 6988.

Prereq.: STAT 4843 or STAT 6943 or ECON 6976.

ECON 6990 Special Topics in Economics 1-3 s.h.

Special interest topics selected by the staff in the following areas: economic education, economic theory, and applied economics analysis. May be repeated for a maximum of six hours toward a graduate degree.

ECON 6992 Data Analytics - Advanced SAS Programming 3 s.h.

This course is designed to provide students training of advanced SAS programming for data analysis. Main topics include SQL, Macro language, Econometrics-related procedures, working with large data set, etc. Crosslisted with STAT 6912.

Prereq.: ECON 6976 or equivalent and either ECON 5861 or STAT 5811.

ECON 6998 Research Seminar 3 s.h.

Applied quantitative research techniques will be discussed. Students are required to undertake an original quantitative research project in a field of economics and write a paper summarizing their results. Course may be taken concurrently with ECON 6976. **Prereq.:** ECON 6912 and ECON 6922.

ECON 6999 Master's Thesis 3 s.h.

A research project under the supervision of a member of the department on the graduate faculty. The project typically extends the student's research in ECON 6998.

Prereq.: a grade of "A" or "B" in ECON 6998 and a thesis proposal accepted by departmental committee.