ECONOMICS (ECON)

# Course numbers with the # symbol included (e.g. #400) have not been taught in the last 3 years.

ECON 825 - Mathematical Economics
Credits: 4
Principal mathematical techniques and their application in economics. Topics covered: matrix algebra, derivatives, unconstrained and constrained optimization, linear and nonlinear programming, game theory, elements of integral calculus.
Grade Mode: Letter Grade

ECON 871 - Macroeconomic Consulting
Credits: 3
Assess a macroeconomy's condition over the short-run and long-run. Emphasis is given to the construction of data from the National Income and Product Accounts (NIPA), Bureau of Labor Statistics (BLS), the Federal Reserve System (FRS), and other sources. This course also considers the role and functioning of financial markets and how business decisions are impacted by short-run and long-run macroeconomic developments. Prereq: ECON 611 or ADMN 970.
Grade Mode: Letter Grade

ECON 875 - Strategy Analysis: Games and Auctions
Credits: 3
Game theory is the study of strategic interactions. It models conflict and cooperation between rational agents. Applications include, statistical decision theory, artificial intelligence, auctions, pricing, bargaining, etc. The focus of this course is on business strategy. Students formalize strategic situations as well-defined games, analyze and solve a wide variety of games and business applications, and develop optimal auctions given specific corporate requirements. On-line auctions will be emphasized. Prereq: Intermediate Microeconomics, Statistics.
Grade Mode: Letter Grade

ECON 890 - Analytical Economics in Practice
Credits: 3
The course gives students an opportunity to use their economics, analytics, and data analysis skills in a business or consulting setting. To this end, students undertake an internship and/or corporate project. Prereq: ECON 926, ECON 976.
Co-requisite: ECON 927
Grade Mode: Letter Grade

ECON 908 - Environmental Economics: Theory and Policy
Credits: 4
Applies microeconomic tools to issues in environmental economics. Considers the role of government, externalities, public goods, property rights, and market failure. Identifies and compares different policy instruments such as administrative regulation, marketable permits, tax incentives, and direct subsidies, along with consideration of complicating factors such as information, uncertainty and risk. These tools are applied to various policy issues such as air pollution, solid waste management, and recycling. Prereq: ECON 926 and ECON 976.
Grade Mode: Letter Grade

ECON 909 - Environmental Valuation
Credits: 4
Focuses on the theory and methods for estimating the economic values of environmental resources and public goods (such as clean air and water, preservation of wetlands or coastal resources, etc.) many of which are not exchanged in established markets and therefore do not have prices associated with them. The valuation of environmental resources is an important component in benefit-cost analyses which are used in policy making. Provides a blend of theory and hands-on applications of methods and real data sets. Prereq: ECON 926, ECON 927, ECON 976.
Grade Mode: Letter Grade

ECON 926 - Econometrics I
Credits: 4
Application and theory of statistical and econometric methods to problems in economics. Topics: basic statistical theory, simple and multiple regression, violations of the basic assumptions, generalized least squares, and introduction to simultaneous equation models. Prereq: undergraduate statistics course.
Grade Mode: Letter Grade

ECON 927 - Econometrics II
Credits: 4
Asymptotic theory, likelihood estimation, simultaneous equations, panel data analysis, binary and multiple choice models, count data analysis, selection models, survival analysis. Prereq: ECON 926.
Grade Mode: Letter Grade

ECON 928 - Times Series Econometrics
Credits: 4
Basic and advanced time series models with up-to-date empirical techniques with emphasis on the application of econometric tools to economic issues. Selected topics include stationary ARMA models, unit roots and cointegration, VAR, ARCH dynamic panel data models, structural break models, and non-linear time series models. Prereq: ECON 926 and ECON 927 or equivalents.
Grade Mode: Letter Grade

ECON 929 - Advanced Econometrics
Credits: 4
Advanced nonlinear Econometrics and an introduction to the asymptotic theory of nonlinear regression. A summary of selected topics include nonlinear least squares (NLLS), generalized method of moments (GMM), numerical optimization, bootstrap, maximum likelihood (MLE), quasi-maximum likelihood (QMLE), nonparametric and semiparametric regression, cross-validation.
Equivalent(s): ECON 898
Grade Mode: Letter Grade

ECON 941 - Empirical Analysis in Health Economics
Credits: 4
Provides students with an understanding of key issues in the field of health economics from an empirical perspective. Topics (which align with those in ECON 942) include: production of health; health behaviors; supply of care by physicians, hospitals and nurses; cost-effectiveness and measuring quality of care; features of the U.S. health insurance system; and the effect of insurance on demand for care and health status. Prereq: ECON 927 minimum grade of B; ECON 977 minimum grade of B-.
Grade Mode: Letter Grade
ECON 942 - Theoretical Analysis in Health Economics  
Credits: 4  
Covers the seminal theoretical papers in the field of health economics. The first set of papers covered in the course focus on the determinants of health and demand for healthcare services; the second set of papers cover healthcare providers and their supply of healthcare services in competitive, monopolistic, and government-regulated markets; and the third set of papers cover private and public health insurance markets. Prereq: ECON 977, ECON 927. 
Grade Mode: Letter Grade

ECON 945 - International Trade  
Credits: 4  
Contemporary issues in international economic theory and policy. Analysis of trade theory, dynamics of world trade and exchange, and international commercial policy.  
Equivalent(s): ECON 845  
Grade Mode: Letter Grade

ECON 946 - Open Economy Macroeconomics  
Credits: 4  
This course introduces you to the frontier of research in open economy macroeconomics and builds on the tools currently used in modern macroeconomic analysis. This course first examines real business cycle fluctuations of small open economies, and then turns to considering monetary and fiscal policies. By the end of the course, students are expected to demonstrate the ability to formulate new theoretical models and be able to apply them to conduct policy analysis. Prereq: ECON 973.  
Grade Mode: Letter Grade

ECON 957 - History of Economic Thought  
Credits: 4  
Traces the development of economic thought, with careful examination and critical appraisal of the contributions made by important figures and schools of thought.  
Grade Mode: Letter Grade

ECON 958 - Topics in Economic Thought and Methodology  
Credits: 4  
Advanced seminar in a selected topic in economic thought or methodology.  
Grade Mode: Letter Grade

ECON 972 - Macroeconomics I  
Credits: 0 or 4  
Development of the major macro models and approaches to macroeconomics: classical, Keynes' "General Theory," Keynesian, Monetarists, New Classical, and New Keynesian models and views. Introduction to open economy macro and growth models.  
Grade Mode: Letter Grade

ECON 973 - Macroeconomics II  
Credits: 0 or 4  
Grade Mode: Letter Grade

ECON 976 - Microeconomics I  
Credits: 0 or 4  
Survey and applications of modern microeconomic theory. Analysis of households, firms, product and resource markets, and behavior under uncertainty.  
Grade Mode: Letter Grade

ECON 977 - Microeconomics II  
Credits: 0 or 4  
Analysis of stability, cooperative and non-cooperative game theory, information economics, exhaustible resources, disequilibrium, public goods, public choice, and input-output analysis. Prereq: ECON 976.  
Grade Mode: Letter Grade

ECON 978 - Teaching Economics  
Credits: 4  
This seminar-style course helps prepare graduate students to become effective teachers of economics at the college level. Emphasis is on teaching at the principles level. Students study and discuss key issues, including the learning process, the objectives of principles classes and of the economic major, heterogeneous learning styles, chalk and talk vs. active learning, testing and the testing effect, homework, and the role of textbooks. Students also write teaching philosophies, lead discussion sessions, present research on teaching, and deliver short lectures to the class on specific topics at the principles level.  
Grade Mode: Letter Grade

ECON 988 - Graduate Economics Seminar  
Credits: 2-12  
Attend weekly graduate economics seminars; write reviews and critiques of seminar papers; participate in discussion at seminars. May be repeated up to a maximum of 6 credits for Masters students and up to 12 credits for Ph.D. students.  
Repeat Rule: May be repeated for a maximum of 12 credits.  
Grade Mode:

ECON 999 - Doctoral Research  
Credits: 0  
Cr/F.  
Grade Mode: