ECONOMICS (ECO)

ECO 100 Economics of a Global Sustainable Society 3
Sustainable development, with a natural emphasis on non-Western nations; will consider issues around such topics as demographics, development theories, the environment, health and education, the role of institutions, etc.
MAC: MAC Global and Intercultural

ECO 201 Principles of Microeconomics 3
Introduction to microeconomic principles and analysis. Topics include: the market economy, supply and demand, shortages and surpluses, competition and monopoly, international trade, and public policy issues.
MAC: MAC CritThink Soc and BehavSci

ECO 201R Principles of Microeconomics Recitation 0
Recitation supplements and expands upon the content of the co-requisite course: ECO 201: Principles of Microeconomics.

ECO 202 Principles of Macroeconomics 3
Introduction to macroeconomic principles and analysis. Topics include the national income, the monetary system, inflation, business cycles, fiscal policy, the national debt, exchange rates, balance of payments, and economic growth.
MAC: MAC CritThink Soc and BehavSci

ECO 219 Essential Mathematics for Economics 3
Pre-calculus mathematical applications in economics. Provides mathematical tools for upper-level courses in economics.
Prerequisites: At least one year of high school algebra.

ECO 250 Economic and Business Statistics I 3
Introduction to statistical methods with applications in economics and business. Topics include descriptive statistics, probability, statistical inference, correlation, and regression. Emphasis on problem solving with microcomputer applications.
Prerequisites: An acceptable score on the mathematics placement test or any one of the following: MAT 115, MAT 120, MAT 150, MAT 151, MAT 190, MAT 191, MAT 292, ECO 219.

ECO 250R Econ/Bus Stats I Recitation 0

ECO 300 The International Economy 3
Examines the history, structure, and institutional foundations of the international trading system. Analyzes the impact of trade on economic growth, employment and living standards with a focus on contemporary issues.
Prerequisites: ECO 201 and ECO 202. or permission of instructor.

ECO 300X Experimental Course 1-6
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

ECO 301 Intermediate Microeconomic Theory 3
Intermediate level analysis of consumer theory and theory of the firm. Other topics include market failure, savings and investment, risk and uncertainty, wage determination, and income distribution.
Prerequisites: ECO 201. MAT 120 or MAT 191 or ECO 219.

ECO 302 Intermediate Macroeconomic Theory 3
Intermediate level analysis of national income and employment with attention to fiscal and monetary policy, theories of business fluctuations, and economic growth.
Prerequisites: ECO 202.

ECO 312 Economics of Technology 3
Economic analysis of technological change. Topics include sources of productivity, inventive activity, entrepreneurship, innovation strategy, RD management, patenting, and technology assessment.
Prerequisites: ECO 201.
Notes: Same as ENT 312.

ECO 315 The Economics of Entrepreneurship 3
Study of entrepreneurship from history of economic thought perspective and application of such concepts to economic agents. Emphasis on economic thought, market activity, and economic growth.
Prerequisites: ECO 201.
Notes: Same as ENT 315.

ECO 319 Quantitative Analysis 3
Introduction to mathematical methods in economics. Includes applications of mathematics to consumer and production theory, equilibrium analysis, input-output models, and optimization.
Prerequisites: Minimum grade of B (3.0) in MAT 120 or minimum grade of C (2.0) in MAT 191 or minimum grade of B (3.0) in ECO 219. ECO 201.

ECO 323 Public Economics 3
The analysis of taxes and expenditures. Topics include: rationale for government (public goods, externalities), expenditure analysis (including income redistribution), tax analysis (including income, sales, and property taxes).
Prerequisites: ECO 301.

ECO 327 Money and Economic Activity 3
Emphasis on legal, institutional, and economic forces which mutually interact to determine supply of money. Elementary monetary theory and monetary flows, institutions, policies, and problems analyzed. International as well as domestic monetary analysis.
Prerequisites: ECO 202.

ECO 350 Economic and Business Statistics II 3
Continuation of ECO 250. Inference about population variance, inference about two populations, analysis of variance, bivariate regression, and multiple regression with empirical applications to business and economics using statistical software.
Prerequisites: Any one of the following: ECO 250, PSC 301, PSY 211, SOC 302, STA 271, STA 290, or STA 352.

ECO 355 Econometrics 3
The application of statistical models and methods to economic data and models. Topics include linear regression, interpretation of results, hypothesis testing, and specification testing.
Prerequisites: ECO 350.

ECO 360 International Monetary Economics 3
Analysis of balance of payments and international monetary systems. Monetary and fiscal policies under the gold standard, fixed exchange, and flexible exchange systems. Breakdown of the Bretton Woods system and the current exchange rate policies of central banks.
Prerequisites: ECO 302.

ECO 362 History of Economic Thought 3
The history of economic thought and criticism since the eighteenth century. Major topics include classical economics, socialism, communism, marginalism, Keynesianism, corporatism, Austrian economics, monetarism, developmentalism, neoliberalism, and modern anti-market revolutions.
Notes: Same as HIS 362.
ECO 367 Economic Growth and Development 3
Investigation of the determinants of the long-run economic growth of nations. Application of economic concepts to problems of developing and lesser developed countries.
Prerequisites: ECO 302.

ECO 370 Labor Economics 3
Examination of wage and employment determination in U.S. labor markets. Topics include labor supply and labor demand theory, investments in education and training, job search and migration, unemployment, unions, racial and sex discrimination, income inequality, and public policy.
Prerequisites: ECO 301.

ECO 380 Environmental and Natural Resource Economics 3
Examination of environmental problems in market economies. Topics include the economic theory of pollution and its control, common-property resources, renewable and other resources, endangered species, population growth, and international problems.
Prerequisites: ECO 201.

ECO 387 Entrepreneurship in American History 3
This course will examine entrepreneurs who shaped the contours of the American economy from the first transatlantic trade routes to the World Wide Web. We utilize entrepreneurship to analyze the development of American capitalism from a string of coastal colonies to an economic world power.
Notes: Same as BLS 387, ENT 387.

ECO 390 Health Economics 3
Examination of supply and demand for health care, medical malpractice, health insurance, government provision of health care, international comparisons, and health care reform.
Prerequisites: ECO 301.

ECO 400X Experimental Course 1-6
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.

ECO 413 Directed Studies in Economics I 1-3
Individual study of an advanced topic in economics. Regular conferences with the instructor are required.
Prerequisites: Permission of the Director of Graduate Study in Economics and the professor who will supervise the study.

ECO 425 Data Methods in Economics 3
Advanced techniques in data preparation. Topics include data formats, error checking, merging data, large data sets, and missing observations.
Students work extensively with SAS.

ECO 437 Empirical Health Economics 3
Examines the market for health services and the production of health. Topics include the demand and supply for health care professionals, health insurance and financing, and regulation of medical markets.

ECO 441 Microeconomics I 4
Theory of consumer and firm behavior under certainty and uncertainty including exchange, production, income distribution, market structure and welfare economics.
Prerequisites: ECO 625 and ECO 631 or permission of the Director of Graduate Studies.

ECO 442 Microeconomics II 3
Examination of market failures that can occur within competitive, decentralized market systems. Topics include market power, uncertainty, asymmetric information, externalities, and public goods.
Prerequisites: ECO 641 or ECO 701.

ECO 443 Econometric Methods 4
Introduction to advanced econometric applications. Topics may include seemingly unrelated regressions, simultaneous equations, identification, two-stage least squares, and sample selection models. Application to economic data using statistical software emphasized.
Prerequisites: ECO 625 and ECO 631 or permission of the Director of Graduate Studies.

ECO 444 Econometric Theory 3
Foundations of mathematical statistics and linear econometric models. Topics include discrete and continuous probability distributions, random sampling and asymptotic analysis, the linear regression model, hypothesis testing, and statistical programming and simulation using SAS or other statistical software.
Prerequisites: ECO 643 or ECO 705.
ECO 646 Macroeconomics 4
Advanced theory of aggregate economic activity. Economic models developed to explain economic growth, activity, and fluctuations based on classical, Keynesian, monetarist, and new classical schools of thought. 
Prerequisites: ECO 625 and ECO 631 or permission of the Director of Graduate Studies.

ECO 663 Predictive Data Mining 3
Provides a working knowledge of statistical tools important to the emerging and practically relevant field of predictive data mining and the discovery of patterns in big data sets.

ECO 664 Time Series and Forecasting 3
Students learn to analyze and forecast time series data. Topics include stochastic linear difference equations, tests for trends and stationarity, and ARIMA modeling. Application to economic data emphasized.

ECO 691 Economics Internship 1-3
Individual course of study consisting of an applied economics and/or data analysis component and written work that complements the program's academic work. Supervised by faculty and an appropriate manager. 
Prerequisites: Permission of the Director of Graduate Study.
Notes: May be repeated, maximum of 3 credit hours may apply toward to the M.A. degree, course cannot be applied toward the Ph.D. degree.

ECO 701 Microeconomics I 4
Theory of consumer and firm behavior under certainty and uncertainty including exchange, production, income distribution, market structure and welfare economics.
Prerequisites: ECO 625 and ECO 631 or permission of the Director of Graduate Studies.

ECO 702 Macroeconomics 4
Advanced theory of aggregate economic activity. Economic models developed to explain economic growth, activity, and fluctuations based on classical, Keynesian, monetarist, and new classical schools of thought.
Prerequisites: ECO 625 and ECO 631 or permission of the Director of Graduate Studies.

ECO 705 Econometrics Methods 4
Introduction to advanced econometric applications. Topics may include seemingly unrelated regressions, simultaneous equations, identification, two-stage least squares, and sample selection models. Application to economic data using statistical software emphasized.
Prerequisites: ECO 625 and ECO 631 or permission of the Director of Graduate Studies.

ECO 712 Directed Studies in Economics III 1-3
Individual study of an advanced topic in economics. Regular conferences with the instructor are required. 
Prerequisites: Permission of Director of Graduate Study.
Notes: May be repeated for credit.

ECO 730 Introduction to Cost Effectiveness 3
Methods used by health economists to evaluate health care technologies and programs. Learn how to critique and use health economic evaluations, common health economic evaluation tools and methods.

ECO 731 Applied Policy Methods 3
Provides applied foundation for policy study with emphasis on an economic efficiency perspective including history of policy analysis, market and government failure, and alternative methods for policy analysis.

ECO 734 Public Policies Toward Innovation 3
Examines public-sector innovation policies from a domestic and global perspective.

ECO 735 Labor Economics 3
Examines the operation of the labor market, its institutions, and labor market policies. Topics include labor supply and demand, returns to education, family and household economics, wage inequality, and unions.
Prerequisites: ECO 643 or ECO 705.
Notes: May be repeated for credit.

ECO 736 Public Economics 3
Examines governmental expenditures and taxes and the constraints imposed on them within a federal, multi-tiered governmental structure. Topics include education, public health, housing and community development, infrastructure, and environmental regulation.
Prerequisites: ECO 641 or ECO 701.

ECO 737 Empirical Health Economics 3
Examines the market for health services and the production of health. Topics include the demand and supply for health care professionals, health insurance and financing, and regulation of medical markets.
Notes: May be repeated for credit.

ECO 738 Topics in Economics 3
Application of economic theory and econometrics to a specific topic in public, labor, or health. 
Prerequisites: ECO 641 or ECO 701, ECO 643 or ECO 705.
Notes: May be repeated for credit.

ECO 739 Independent Field Course 1-4
A faculty-directed, independent study of a research area that is particularly related to a student's primary field of interest. 
Prerequisites: Permission of the Director of Graduate Study.
Notes: May be repeated for credit, may serve as one required major field course.

ECO 741 Advanced Mathematical Economics 3
Mathematical concepts and techniques that are used in advanced economic theory. Material includes sets and functions, constrained and unconstrained programming, and difference and differential equations.
Prerequisites: ECO 642.

ECO 742 Advanced Microeconomic Theory 3
Examines decision making by households and firms with an emphasis on the meaning and empirical interpretation of theoretical models. Topics include duality theory, general equilibrium, and welfare economics. Prerequisite/Corequisite: ECO 741 or permission of instructor.

ECO 745 Advanced Econometric Theory 3
Presents fundamental concepts in statistics and least squares estimation and inference within single-equation linear models, instrumental variable approaches, and multivariate regression contexts. Concludes with introduction to nonlinear regression. Includes lab. 
Prerequisites: ECO 644.

ECO 746 Advanced Econometric Theory II 3
Advanced methods in microeconomic analysis, covers linear models for panel data with unobserved heterogeneity, M-estimators, maximum likelihood, generalized methods of moments, and discrete response models. Includes lab. 
Prerequisites: ECO 745 or permission of instructor.

ECO 750X Experimental Course 1-6
This number reserved for experimental courses. Refer to the Course Schedule for current offerings.
ECO 797 Seminar in Empirical Economics 3-6
A supervised seminar in which students formulate a major empirical research project and identify, collect, and assemble the data required to pursue that research.
Prerequisites: Permission of Director of Graduate Study.
Notes: May be repeated for credit.

ECO 798 Seminar in Economic Research 3-6
A supervised research seminar in which students complete an extensive review of the literature in their chosen area of research specialization.
Prerequisites: Permission of Director of Graduate Study.
Notes: May be repeated for credit.

ECO 799 Dissertation 1-12

ECO 802 Dissertation Extension 1-3
Dissertation Extension.

ECO 803 Research Extension 1-3
Research Extension.