

ECNS - Economics

ECNS 101IS Economic Way of Thinking: 3 Credits (3 Lec)

COREQUISITE: ECNS 105 or Math level 300 or above. (F, Sp)

Introduces important tools and methods of economics, including the core reasoning that underlies decision-making, analytical thinking and problem solving, demand and supply analysis, and indicators of economic performance. Emphasis is on application of the tools of economics to current issues of social and personal importance. Must enroll in ECNS 105 as a co-requisite if math level is below 300

ECNS 105 Study Econ Way of Thinking: 1 Credits (1 Lec)

COREQUISITE: ECNS 101IS. (F, Sp) CO-REQUISITE: ECNS 101IS.

Directed study in a small group setting for ECNS 101 students. Students meet weekly in small groups to review ECNS 101 concepts, gain additional practice with economic problems, and complete in-class problem sets

ECNS 132 Econ & the Environment: 3 Credits (3 Lec)

COREQUISITE: Math placement level 300 or above. (Sp) Introduces important tools and methods of economics in relation to renewable and non-renewable natural resource issues, environmental resources, pollution control issues, and the global environment. Topics include fisheries, wildlife, surface water use, oil, natural gas, minerals, public lands, resource preservation, climate change, biodiversity and population

ECNS 202 Principles of Macroeconomics: 3 Credits (3 Lec)

PREREQUISITE: ECNS 101IS

COREQUISITE: M 121Q or equivalent. (F, Sp) Topics include inflation, unemployment, interest rates, money, and the impact of government surpluses or deficits. Government policies of growth, employment, income distribution, and international trade are examined

ECNS 204IS Microeconomics: 3 Credits (3 Lec)

PREREQUISITE: ECNS 101IS or ECNS 251IS and M 121Q or equivalent. Consumer theory and the theory of the firm are utilized to show how independent decisions by consumers and firms interact in markets to determine the price and output of goods and services

ECNS 206 Study Principles of Macroeconomics: 1 Credits (1 Lec)

(F, Sp) Optional directed study in a small group setting for ECNS 202 students. Students meet weekly in small groups to review ECNS 202 concepts, gain additional practice with economic problems, and complete in-class problem sets.

ECNS 251IS Honors Economics: 4 Credits (4 Other)

PREREQUISITE: Consent of Instructor. (F, Sp) Economic principles are introduced and applied to a wide range of contemporary and historical problems including legal, environmental, resource, health, taxation, poverty, economic development, and macroeconomic policy issues

ECNS 290R Undergraduate Research: 1-8 Credits (1-8 Other)

PREREQUISITE: ECNS 101IS and approval of instructor. () On demand. Intended for lower division undergraduate research/undergraduate scholars program. The student will work closely with the supervising faculty. Course will address responsible conduct of research

Repeatable up to 8 credits.

ECNS 291 Special Topics: 1-4 Credits (1-4 Lec)

PREREQUISITE: Dependent on the offering. Courses not required in any curriculum for which there is a particular one-time need, or given on a trial basis to determine acceptability and demand before requesting regular course number

Repeatable up to 12 credits.

ECNS 292 Independent Study: 1-3 Credits (1-3 Other)

PREREQUISITE: Consent of instructor and approval of department head. () Directed research and study on an individual basis

Repeatable up to 6 credits.

ECNS 301 Intermediate Micro with Calc: 3 Credits (3 Lec)

PREREQUISITE: ECNS 204IS or ECNS 251IS or AGBE 210IS and M 161Q or M 171Q or equivalent. (F, Sp) A study of microeconomic theory and selected applications with emphasis on theory of consumer behavior and theory of the firm. A major objective of the course is to prepare students for additional upper-division courses in economics

ECNS 303 Intermediate Macro with Calc: 3 Credits (3 Lec)

PREREQUISITE: ECNS 202 and ECNS 204IS or ECNS 251 or AGBE 210IS; M 161 or M 171 or equivalent. (F, Sp) The economic theory of economy-wide aggregates such as national income, levels of employment, income distribution; the determinants of the performance of entire economies: nations, groups of nations, and the world

ECNS 309 Managerial Economics: 3 Credits (3 Lec)

PREREQUISITE: ECNS 204IS or ECNS 251IS or AGBE 210IS; and M 161Q or M 171Q

COREQUISITE: STAT 216Q or BMGT 240IS or EIND 354. (F) An integration of various principles and concepts from different areas of economics. These are combined with several tools of analysis and related to problems of economic decision making and policy formulation at the firm level

ECNS 310 Health Economics: 3 Credits (3 Lec)

PREREQUISITE: ECNS 204IS or ECNS 251IS or AGBE 210IS. (Sp) Use the concepts and tools of microeconomics to understand health care and health insurance markets and to analyze possible policy changes within the U.S. health care system

ECNS 311 Intermediate Microeconomics with Economics Education Applications: 3 Credits (3 Lec)

PREREQUISITE: ECNS 204 or ECNS 251 or consent of instructor. A study of microeconomic theory with selected applications in the area of the economics of education and emphasis on the theory of the behavior of consumers, firms, nonprofit organizations and government agencies, and welfare economics. Applications will address issues such as the labor market for primary and secondary school teachers, the effects of voucher programs on the quality of public and private education, and the returns to primary and secondary education

ECNS 312 Labor Economics: 3 Credits (3 Lec)

PREREQUISITE: ECNS 204IS or ECNS 251IS or AGBE 210IS. (F) Economics of labor markets, wage determination, and human capital. The theoretical framework of labor market analysis is presented, along with empirical research results and descriptive aspects of current labor issues

ECNS 313 Money and Banking: 3 Credits (3 Lec)

PREREQUISITE: ECNS 202 or ECNS 251. (Sp) Principles and problems of money, banking, and credit. Monetary and banking history; monetary theory and policy; structure and operation of our financial system

ECNS 314 International Economics: 3 Credits (3 Lec)

PREREQUISITE: ECNS 204IS or ECNS 251IS or AGBE 210IS. (F) A survey of international economic theory and policy. Major concepts explored are comparative advantage, impacts of tariffs, exchange rates, and international payments

ECNS 315 Urban Economics and Community Development: 3 Credits (3 Lec)

PREREQUISITE: ECNS 204IS or ECNS 251IS or AGBE 210IS. (Sp) This course explores the role that cities and municipalities play in the modern economy. This course applies economic principles and theories to study classical and contemporary urban issues. Topics include: why cities exist, where do cities develop, property taxation, household mobility, urban poverty and welfare, provision of local public goods, urban environmental challenges, land use controls, and local labor markets

ECNS 316 Economics of Crime and Risky Behaviors: 3 Credits (3 Lec)

PREREQUISITE: ECNS 204IS or AGBE 210IS

COREQUISITE: STAT 337 or BMGT 240IS or EIND 354 or equivalent.

On demand. This course applies economic principles to analyze criminal and risky human behavior. Topics include the rational choice model of crime, determinants of risky behavior among youths, and economic analysis of substance use and abuse

ECNS 317 Economic Development: 3 Credits (3 Lec)

PREREQUISITE: ECNS 204IS or ECNS 251IS or AGBE 210IS. (Sp)

The plight of the world's low income countries, and the many national and international programs devoted to its alleviation. Primary emphasis directed to economic factors, but attention given to political and social characteristics vital to economic development

ECNS 320 Public Finance: 3 Credits (3 Lec)

PREREQUISITE: ECNS 204IS or ECNS 251IS or AGBE 210IS. (F)

Analysis of public expenditure programs, government behavior, and public decision making. Topics such as health care and welfare programs, and principles of taxation will be covered

ECNS 332 Econ of Natural Resources: 3 Credits (3 Lec)

PREREQUISITE: ECNS 204IS or ECNS 251IS or AGBE 210IS. (Sp)

Economic principles regarding the allocation and use of natural resources and the impact of institutional factors within which these decisions are implemented. Emphasis on property rights, economic rent, and impact of regulations on resources such as forests, fisheries, land, and water

ECNS 335 Energy Economics: 3 Credits (3 Lec)

PREREQUISITE: ECNS 204IS or ECNS 251IS or AGBE 210IS. (Sp)

This course covers the economics of international energy markets. You will learn and apply economic models to understand markets for oil, gas, coal, electricity, and renewable energy resources. Models, modeling techniques, and issues included are supply and demand, market structure, futures markets, climate change, other environmental issues, energy policy, energy regulation, energy conservation, pros and cons of different energy sources. The course will include data analysis, economic forecasting, game theory, and optimization

ECNS 345 Econ Org, Finance & Credit: 3 Credits (3 Lec)

PREREQUISITE: ECNS 204IS or ECNS 251IS or AGBE 210IS. (F)

Alternatives available to business owners for acquiring and maintaining control over resources used in production. Emphasis is on the management of cash, credit, debt, taxes, and interest in relation to price levels and general economic conditions. Primary focus is the agriculture industry. Cross-listed with AGBE 345

ECNS 372 Economic History of US: 3 Credits (3 Lec)

PREREQUISITE: ECNS 202 and ECNS 204IS or ECNS 251IS or AGBE 210IS. (Sp)

This course will apply economic principles to study the determinants of growth within U.S. economic history. Topics include westward expansion, transportation and urbanization, slavery, political institutions, educational attainment, the public health revolution, and the urban mortality transition

ECNS 394 Seminar: 1 Credits (1 Other)

PREREQUISITE: ECNS 204IS or ECNS 251IS or consent of instructor.

() On demand. Current economic problems and current writings of people in the profession. Topics vary each semester; students should check with the department before registering

Repeatable up to 99 credits.

ECNS 403R Introduction to Econometrics: 3 Credits (3 Lec)

PREREQUISITE: ECNS 301 and M 161Q or M 171Q or equivalent;

STAT 337 or BMGT 240IS or EIND 354 or equivalent. (F, Sp) Senior capstone course. Statistical analysis and interpretation of quantitative data in economics. Focus on estimating economic relationships and conducting hypothesis testing in economics. Utilizes cutting-edge statistical software packages and real data to apply economic methods to problems in business, economics, and public policy

ECNS 406 Industrial Organization: 3 Credits (3 Lec)

PREREQUISITE: ECNS 301. () On demand. Offers students the

opportunity to use training in price theory by focusing on issues concerned with public policy toward business. The subject matter should appeal to students in pre-law and business as well as economics majors

ECNS 432R Economic Policy Evaluation: 3 Credits (3 Lec)

PREREQUISITE: ECNS 301. (F) Senior capstone course. The relationship

between microeconomic analysis and policy evaluation. The course covers applied welfare economics and methods of causal inference for evaluating public policies. By the end of the course, students will have an understanding of the types of research designs that can lead to convincing analysis. Applications include public health, crime, environmental economics, and labor market issues

ECNS 433 Economics of the Environment: 3 Credits (3 Lec)

PREREQUISITE: ECNS 204IS or ECNS 251IS or AGBE 210IS. (F)

Prerequisite: ECNS 204IS or ECNS 251IS or AGBE 210IS. This course introduces students to the economic analysis of environmental issues and policies. It highlights the causes of environmental pollution and tools for controlling it through economic analysis. This course will cover topics on the values of preservation, climate change, and the distribution of costs and benefits from environmental policies

ECNS 451 Behavioral & Experimental Economics: 3 Credits (3 Lec)

PREREQUISITE: ECNS 301 and STAT 337 or equivalent. (Sp)

This course is an introduction to behavioral economics, a growing field which uses insights from psychology to improve economic models of behavior

ECNS 460 Advanced Data Analytics in Economics: 3 Credits (3 Lec)

PREREQUISITE: ECNS 301 and either ECNS 403 or EIND 457. (F)

Course builds practical skills, intuition, and best practices for cleaning, exploring, visualizing, and presenting data, programming with R, and solving problems in prediction and causal inference. Develops familiarity with available tools for data acquisition, spatial analysis, and machine learning

ECNS 461 Financial Econometrics: 3 Credits (3 Lec)

PREREQUISITE: ECNS 403R or EIND 457. (F) Introduce important

concepts in econometrics with an emphasis on time series and panel data. The R statistical software will be to develop empirical analyses of financial markets data

ECNS 490R Undergraduate Research: 1-8 Credits (1-8 Other)

PREREQUISITE: ECNS 204IS, junior standing, and approval of

instructor. () On demand. Intended for upper division undergraduate research/undergraduate scholars program. The student will work closely with the supervising faculty. Course will address responsible conduct of research

Repeatable up to 8 credits.

ECNS 491 Special Topics: 1-4 Credits (1-4 Lec)

PREREQUISITE: Determined by each offering. On demand. Courses

not required in any curriculum for which there is a particular one-time need, or given on a trial basis to determine acceptability and demand before requesting a regular course number

Repeatable up to 12 credits.

ECNS 492 Independent Study: 1-3 Credits (1-3 Other)

PREREQUISITE: Junior standing, consent of instructor, and approval of department head. Directed research and study on an individual basis
Repeatable up to 6 credits.

ECNS 494 Seminar: 1 Credits (1 Other)

PREREQUISITE: Junior standing and as determined for each offering.
() On demand. Topics offered at the upper division level which are not covered in regular courses. Students participate in preparing and presenting discussion material. Course is co-convened with ECNS 594
Repeatable up to 4 credits.

ECNS 502 Macroeconomic Theory: 3 Credits (3 Lec)

PREREQUISITE: ECNS 303. (Sp) This course provides the bridge from undergraduate to introductory graduate macroeconomic theory. The foundation of modern macroeconomics and dynamic economic analysis are rigorously presented. The macroeconomic workhorses: the Solow growth model, the Neoclassical growth model, the overlapping generations model, and models of technological change and technology adoption are surveyed along with many extensions to those models. Additional topics include time inconsistency, dynamic efficiency, and the Lucas critique

ECNS 503 Microeconomic Theory I: 3 Credits (3 Lec)

PREREQUISITE: ECNS 301 or consent of instructor. (F)
PREREQUISITE: ECNS 301 or consent of instructor. This is an advanced course in microeconomic theory. Topics include comparative statics, partial equilibrium analysis, market structure, welfare analysis, strategic and extensive form games, and information economics

ECNS 504 Microeconomic Theory II: 3 Credits (3 Lec)

PREREQUISITE: ECNS 401 and Consent of Instructor. Economic models of optimization as they apply to consumer and firm decision making. Topics covered include comparative statics, theory of the firm and consumer, and consumer and producer surplus

ECNS 560 Advanced Data Analytics in Economics: 3 Credits (3 Lec)

PREREQUISITE: ECNS 403 OR EIND 457. Course builds practical skills, intuition, and best practices for cleaning, exploring, visualizing, and presenting data, programming with R, and solving problems in prediction and causal inference. Develops familiarity with available tools for data acquisition, spatial analysis, and machine learning

ECNS 561 Econometrics I: 3 Credits (3 Lec)

PREREQUISITE: ECNS 301, M 221, and ECNS 403 or EIND 457. (F)
The use of regression analysis in the estimation of economic relationships, with emphasis on development of the least squares technique, the properties of estimators, and hypothesis testing in the context of the regression model

ECNS 562 Econometrics II: 3 Credits (3 Lec)

PREREQUISITE: ECNS 561 and Consent of Instructor. (Sp)
Continuation of material in ECNS 561. The course covers advanced econometric techniques used by applied microeconomics. These typically include panel data methods, instrumental variables, regression discontinuity design, time series analysis, maximum likelihood estimation, and limited dependent variable models

ECNS 569 Research Methodology: 1 Credits (1 Lec)

PREREQUISITE: Graduate standing, ECNS 301, ECNS 303. (F) The research process as a means of acquiring knowledge which is reliable and relevant to problems

ECNS 589 Graduate Consultation: 3 Credits (3 Other)

PREREQUISITE: Master's standing and approval of the Dean of Graduate Studies. () On demand. This course may be used only by students who have completed all of their course work (and thesis, if on a thesis plan) but who need additional faculty or staff time or help

ECNS 590 Master's Thesis: 1-10 Credits (1-10 Other)

PREREQUISITE: Master's standing. (Sp) May be repeated
Repeatable up to 99 credits.

ECNS 591 Special Topics: 1-4 Credits (1-4 Lec)

PREREQUISITE: Upper division courses and others as determined for each offering. On demand. Courses not required in any curriculum for which there is a particular one-time need, or given on a trial basis to determine acceptability and demand before requesting a regular course number
Repeatable up to 12 credits.

ECNS 592 Independent Study: 1-3 Credits (1-3 Other)

PREREQUISITE: Graduate standing, consent of instructor, and approval of department head and Dean of Graduate Studies. () On demand. Directed research and study on an individual basis
Repeatable up to 6 credits.

ECNS 594 Seminar: 1 Credits (1 Other)

PREREQUISITE: Graduate standing or seniors by petition. () On demand. Course prerequisites as dependent on the offering. Topics offered at the graduate level which are not covered in regular courses. Students participate in preparing and presenting discussion material. Course is co-convened with ECNS 494
Repeatable up to 4 credits.