**Department of Economics**

Chairperson: Jim Henderson  
Graduate Program Director: Finley Edwards

**Description of Degree Programs**

The Department of Economics offers the Master of Science in Economics. This degree program prepares students for doctoral training in economics and related disciplines and for employment in the private and public sectors in the U.S. and abroad. The program includes core economics and field courses, modern statistical techniques, and tools of data science. Students can choose electives to follow a data science track, a financial economics track or an international/development economics track. Applicants do not need an undergraduate degree in economics to be admitted, although evidence of strong analytical skills is required.

**Admission Guidelines**

Applicants must hold a bachelor's degree from an accredited college or university unless they are current Baylor undergraduates applying for the Joint BBA/MS program. Applicants are admitted on the basis of undergraduate record, GRE or GMAT score, and letters of recommendation. International students are also required to take either the Test of English as a Foreign Language (TOEFL), the International English Language Testing System (IELTS), or Duolingo exam unless the applicant has a degree conferred by a U.S. accredited higher education institution. In addition, before admission, applicants must have taken the following undergraduate economics courses, or their equivalents: ECO 3306 Intermediate Microeconomic Analysis and ECO 3307 Intermediate Macroeconomic Analysis (i.e., intermediate microeconomics and intermediate macroeconomics), or fifteen hours of economics. Applicants are also strongly advised to complete undergraduate courses in calculus and statistics before the course of study begins. Additional admissions requirements can be found under the Business School Admissions.

- Economics, M.S. (https://catalog.baylor.edu/graduate-school/curriculum-departments-institutes-instruction/hankamer-school-business/economics/economics-ms/)
- Joint Bachelor of Business Administration/Master of Science in Economics (https://catalog.baylor.edu/graduate-school/curriculum-departments-institutes-instruction/hankamer-school-business/economics/joint-bachelor-business-administration-master-science-economics/)
- Economics Minor (https://catalog.baylor.edu/graduate-school/curriculum-departments-institutes-instruction/hankamer-school-business/economics/economics-minor/)
- Health Research and Policy, Ph.D. (https://catalog.baylor.edu/graduate-school/curriculum-departments-institutes-instruction/hankamer-school-business/economics/health-research-policy-phd/)

**Economics (ECO)**

**ECO 4312 Business Cycles and Forecasting (3)**
Pre-requisite(s): A minimum grade of C in ECO 1380 or a minimum grade of C in ECO 2306 and 2307; BBA students must be admitted to the Business School in order to take this course. This course examines basic causes of fluctuation in business activity. Topics include an examination of exogenous and endogenous influences on Gross National Product and other measures of economic activity, and the relationship between cycles in Gross National Product and cycles in particular industries and companies. The course emphasizes methods and techniques currently in use by business forecasters.

**ECO 4321 Energy Economics (3)**
Cross-listed as AVS 4321. Analysis of energy markets, with a focus on static and dynamic efficiency. Oil, natural gas, coal, nuclear, and renewables (including wind, solar, hydro, geothermal, and biofuels). Regulation and deregulation in electricity and natural gas markets. Energy derivatives. Policy issues related to market externalities, including pollution and climate change.

**ECO 4323 The Environment and Economic Analysis (3)**
Cross-listed as AVS 4323, ENV 4323. See ENV 4323 for course information.

**ECO 4345 Mathematical Analysis in Economics (3)**
Pre-requisite(s): A minimum grade of C in ECO 3306. Designed to acquaint the student with rudimentary mathematical techniques and their application to economic analysis.

**ECO 5001 Research Seminar (0)**
Pre-requisite(s): Graduate standing. Presentation and discussion of current research in economics. Course will be graded pass/fail.

**ECO 5002 Research Seminar (0)**
Pre-requisite(s): Graduate standing. Presentation and discussion of current research in economics. Course will be graded pass/fail.

**ECO 5110 Key Global Economic and Strategic Issues (1)**
Pre-requisite(s): Admission to Executive MBA program. This course will enable the participant to see how economic analysis is applied to key global issues that affect management decisions at home and abroad. Questions related to globalization and interdependence among nations will be addressed.

**ECO 5115 Pricing and Economic Analysis (1)**
Pre-requisite(s): Admission to MBA program. Use of economic analysis by managers to help firms acquire and sustain competitive advantage.

**ECO 5116 Economics of Strategic Interaction (1)**
Pre-requisite(s): ECO 5115. Use of economic analysis to aid managers in obtaining favorable outcomes in situations involving strategic interaction between and within firms.

**ECO 5117 Managerial Macroeconomics (1)**
Pre-requisite(s): ECO 5116. Use of macroeconomic analysis by managers in tactical and strategic planning with reference to long-term macroeconomic trends and short-term business cycle fluctuations; sources of disaggregated data; forecasting.
ECO 5199  Non-Thesis Degree Completion  (1)
To fulfill requirements for non-thesis master’s students who need to
complete final degree requirements other than coursework during
their last semester. This may include such things as a comprehensive
examination, oral examination, or foreign language requirement. Students
are required to be registered during the semester they graduate.

ECO 5305  Business Foundations - Economics  (3)
This course is required for MBA and MSIS students who do not have an
undergraduate degree in business from an AACSB-accredited institution.
It provides students with a foundation in economics which is expected of
all business graduate students, and helps them to understand the market
environment in which businesses operate.

ECO 5310  Macroeconomic Analysis in the Global Economy  (3)
Pre-requisite(s): A minimum grade of C in ECO 5315
This course analyzes national and global economic issues from a
macroeconomic perspective. Topics include economic aggregates,
interest rates, the balance of payments and exchange rates, aggregate
production, economic growth, unemployment, consumption, investment,
macroeconomic dynamics, monetary policy, and fiscal policy.

ECO 5314  Seminar in Behavioral and Experimental Economics  (3)
Application of the scientific method to economics using laboratory
experimentation to test economic theories about individual and group
behavior. Exploration of behavioral concepts to expand economic
modeling beyond pure rational choice models.

ECO 5315  Microeconomic Theory and Business Decisions  (3)
Pre-requisite(s): Six semester hours of economics
A seminar designed to cover aspects of micro theory that are relevant
for decision making within the firm. Emphasis is placed on the decision-
making process. Numerous problems, cases, and examples are used to
illustrate the theory.

ECO 5317  Contemporary Government and Business Relations  (3)
Pre-requisite(s): Six semester hours of economics
An examination of the many ways in which government and business
interact. Topics covered include the historical development of
government regulations of business; the current state of antitrust
enforcement; issues involving multinational corporations; the basis
for regulated markets and forces favoring deregulation; the impact
of consumer protection policies and affirmative action policies on business;
and the outlook for government and business relations in the future.

ECO 5318  Game Theory  (3)
Pre-requisite(s): Admission to graduate program in Economics or consent
of instructor
This course provides a technical treatment of the theory of games and
strategic behavior with an emphasis on applications in economics
and business. This framework helps us to understand the nature of
competition and cooperation. We also study contractual arrangements
that affect incentives under different information constraints.

ECO 5320  The Economics of Government  (3)
Pre-requisite(s): Six semester hours of economics
Economic rationale and effect of various taxes, user pricing, and the
role of government in the allocation of resources, stabilization of the
economy, and redistribution of wealth.

ECO 5321  Energy Economics  (3)
Cross-listed as ENV 5321
Pre-requisite(s): Six semester hours of economics
Origins of the energy crisis, the effect of oil prices on inflation and the
international monetary system, the origins and nature of OPEC, the
economic feasibility of alternative energy sources, U.S. energy policy
alternatives, and other current issues in the field of Energy Economics.
A portion of the course is devoted to examining the energy industry in
Texas and the Southwest.

ECO 5325  Seminar in Regional Economics  (3)
Pre-requisite(s): Nine hours of economics or consent of instructor
Adaptation of economic theory for use in regional economic analysis.
Selected problems: urban renewal, transportation, plant location,
individual location decisions, land use, regional economic growth, and
structure.

ECO 5327  E-Commerce Economics  (3)
Pre-requisite(s): Six hours of economics or consent of instructor
This course applies tools of economic analysis to evaluate the evolving
role of electronic commerce in the United States and world economies.
The course addresses theories of firm conduct and performance in
the electronic marketplace; the role of information and e-commerce
intermediaries; the economics of Internet advertising; intellectual
property rights of digital products; national and international public-
policy issues of e-commerce; the financial and monetary implications
of electronic trading; and the broader implications of e-commerce for U.S.
and world economic activity.

ECO 5330  Problem Areas in International Economics  (3)
Pre-requisite(s): ECO 3306, ECO 5415, or the equivalent, or consent of
department chair
World economy with particular emphasis upon emerging problems
relating to the international monetary system, the trend toward economic
regionalism, the growth of the less developed countries, and economic
relations between private enterprise economies and state trading
enterprises. Basic theories of international economics are developed as a
framework for analysis of policy issues.

ECO 5333  Foreign Exchange Markets and International Monetary
Institutions  (3)
Cross-listed as FIN 5333
Foreign exchange markets, emphasizing theoretical and empirical issues
and their relation to the business environments. Topics include exchange
rate regimes, efficiency, forecast measurement and management of
foreign exchange risk forward and futures markets, options, swaps, and
multi-currency bonds.

ECO 5334  Economic Development  (3)
Pre-requisite(s): Six semester hours of economics
Major issues involved in the process of development such as mass
poverty, population growth, agricultural transformation, and trade.

ECO 5338  Seminar in World Economic Systems  (3)
Pre-requisite(s): ECO 2305, 2306, 3305, or equivalent course work
Economic institutions in a number of capitalist and socialist nations,
and their relative success or failure presented in the context of country
studies. Topics include the problems involved in making international
statistical comparisons, the importance of the rise in the U.S. service
sector, the operation of private and nationalized industries in Western
Europe, lifetime employment in Japan, central planning in the Soviet
Union, socialist economic reforms, international trade among and
between Western and Eastern nations, and the convergence hypothesis.
ECO 5340  Economic Tools for Management Decision Making (3)
Pre-requisite(s): Admission to graduate business program
Upon completion of this course, students will be able to apply a wide range of ideas, concepts, and results from the economics discipline to be more effective managers. Topics may include incentives, market structures and pricing, price discrimination, game theory, macroeconomic theory, analysis and application, and exchange rates and international trade.

ECO 5343  History of Economic Thought (3)
Pre-requisite(s): Nine semester hours of economics or consent of instructor
Historical and analytical study of economic thought, beginning with Mercantilism and including the following schools of thought: Physiocratic, Classical, Marxian, Austrian, Neoclassical, Institutional, Keynesian, and Post-Keynesian.

ECO 5347  Econometric Theory and Methods (3)
Pre-requisite(s): Graduate standing
Empirical estimation of economic relationships; behavioral (consumers), technical (firms), and institutional. It teaches proper use of linear estimation techniques along with problem identification and solution.

ECO 5349  Causal Inference and Research Design (3)
Pre-requisite(s): Minimum grade of C in ECO 4347 or department approval
Introduction to modern tools for determining the existence of causal relationships among variables. Emphasizes both the design of the research process and the use of advanced econometric techniques.

ECO 5350  Health Economics (3)
Cross-listed as HPA 5350
Pre-requisite(s): ECO 5115 or 5315; or consent of instructor
Application of economic principles to health care issues; examining economic efficiency in a variety of circumstances including the production and distribution of health services, health insurance, governmental programs, health care personnel and hospitals. Analysis of public in health and medical care from an economic perspective.

ECO 5351  Data Science I (3)
Pre-requisite(s): A minimum grade of B in ECO 4347 or the equivalent, or approval of the department
Best practices in data collection, cleaning, manipulation, and data and code management. Methods and principles of data exploration and visualization. Unsupervised statistical learning techniques, supervised statistical learning techniques, and false discovery principles.

ECO 5352  Data Science II (3)
Pre-requisite(s): A minimum grade of B in ECO 4347 and ECO 5351

ECO 5360  Seminar in Corporate Finance (3)
Cross-listed as FIN 5360
See FIN 5360 for course information.

ECO 5362  Seminar in Corporate Short-term Financial Management (3)
Cross-listed as FIN 5362
See FIN 5362 for course information.

ECO 5365  Investment Management (3)
Cross-listed as FIN 5365
See FIN 5365 for course information.

ECO 5368  Seminar in Financial Markets (3)
Cross-listed as FIN 5368
See FIN 5368 for course information.

ECO 5370  Management of Financial Institutions (3)
Cross-listed as FIN 5370
See FIN 5370 for course information.

ECO 5415  Economics for Managers (4)
This course helps students understand and apply a wide range of economics-related theories, concepts, and facts to managerial decision-making. Four areas of economics are considered: (i) managerial economics, with a focus on how to determine what prices a firm should charge for its products; (ii) game theory, with a focus on how issues of strategic interaction arise in business settings and what kinds of decisions in various circumstances are likely to lead to the most favorable outcomes; (iii) macroeconomics, with a focus on applying theories and information about the national economic environment in which firms operate to enhance managerial effectiveness; and (iv) international economics.

ECO 5V98  Special Studies in Economics (1-6)
Pre-requisite(s): Nine semester hours of economics and consent of instructor
This course may be taken for one to six semester hours of credit.

ECO 5V99  Thesis (1-6)