# ECONOMICS (ECO)

## Economics (ECO) Courses

**ECO 5003. Economic Theory and Policy. (3-0) 3 Credit Hours.**
The opportunity for intensive study of micro- and macroeconomic concepts; the price system as it functions under competition, monopoly, and partial monopoly; national income measurement and determination; business cycles; money and banking; monetary policy; and fiscal policy and economic stabilization. Differential Tuition: $387.

**ECO 5023. Managerial Economics. (3-0) 3 Credit Hours.**
Prerequisites: ECO 5003 and MS 5003, or their equivalents. Application of price theory to economic decisions of the firm. A problem-oriented approach emphasizing demand, production, and profit maximizing conditions, and their implications for output and pricing strategies under various market structures and types of organization. (Same as MBA 5513. Credit cannot be earned for both ECO 5023 and MBA 5513.) Differential Tuition: $387.

**ECO 6013. Microeconomic Theory. (3-0) 3 Credit Hours.**
Prerequisite: ECO 6113 or doctoral standing. A rigorous introduction to the microeconomic theory of individuals, households, firms, and markets, that covers models of optimizing behavior by consumers and producers, choice under risk, partial equilibrium in competitive and imperfectly competitive markets, general equilibrium in exchange economies, and asymmetric information. Differential Tuition: $387.

**ECO 6033. Macroeconomic Theory. (3-0) 3 Credit Hours.**
Prerequisite: Consent of instructor. This course is an introduction to advanced macroeconomic theory and policy. Topics include indicators and measures of economic activity, growth, inflation, unemployment, and stabilization policies by monetary and fiscal authorities, with rigorous analysis using models of consumption, investment, trade, and the aggregate economy. Differential Tuition: $387.

**ECO 6103. Econometrics I. (3-0) 3 Credit Hours.**
Prerequisite: STA 6003 or STA 5093 or equivalent. This course is an introduction to the theory and application of linear regression. Topics include ordinary least squares, difference-in-differences, regression discontinuity, and instrumental variables. A strong emphasis is placed on policy analysis and using regression to answer real-world questions. Differential Tuition: $387.

**ECO 6113. Mathematical Methods for Economic Analysis. (3-0) 3 Credit Hours.**
Prerequisite: MAT 1133 or doctoral standing. This course is a survey of mathematical methods used in economic and business decision analysis, including functions of several variables, linear algebra, multivariable calculus, and static and dynamic optimization techniques. Differential Tuition: $387.

**ECO 6203. Industrial Organization. (3-0) 3 Credit Hours.**
Prerequisite: ECO 3013 (or equivalent) and MAT 1133 (or equivalent). Theoretical and empirical methods for the analysis of market structure, firm conduct, and economic performance, especially through the lens of strategic interactions amongst firms. Topics may include price and nonprice competition, collusive behavior, auctions, entry deterrence, location strategies, product differentiation, advertising, research, and development. Regulation and antitrust issues are also examined. Differential Tuition: $407.10.

**ECO 6213. Public Economics. (3-0) 3 Credit Hours.**
Prerequisite: An undergraduate microeconomics course. This course is a study of the rationale for collective action and government, including public goods, externality and property rights, public and social choice, and regulation. Topics include incidence, equity, and distributional issues of taxation and public expenditure policies, and the economics of discrimination and segregation from theoretical and empirical perspectives. Differential Tuition: $407.10.

**ECO 6303. Econometrics II. (3-0) 3 Credit Hours.**
Prerequisite: ECO 6103. Advanced topics in econometrics and their applications. Topics include panel data, discrete and limited dependent variables, and nonlinear and dynamic models. Differential Tuition: $387.

**ECO 6323. International Trade and Finance. (3-0) 3 Credit Hours.**
Prerequisite: ECO 6013. This course provides an in-depth analysis of international trade, focusing on contemporary theories of trade and current global issues. Topics include the causes and consequences of international trade, trade practices under varying commercial policy approaches, and the effects of trade and globalization on the national economy. Differential Tuition: $387.

**ECO 6403. Financial Economics. (3-0) 3 Credit Hours.**
The application of economic principles and modeling to the healthcare marketplace. Students will be given the opportunity to apply theoretical and empirical economic analysis to business and public policy issues in the healthcare industry. (Same as BOH 6543. Credit cannot be earned for both BOH 6543 and ECO 6543.) Differential Tuition: $387.

**ECO 6523. Labor Economics. (3-0) 3 Credit Hours.**
Prerequisite: An undergraduate microeconomics course. This course is an application of economic theory to the market for labor. This course studies the determinants of employment and wages, with a special focus on the impacts of education, taxes, and welfare programs. Differential Tuition: $387.

**ECO 6543. Healthcare Economics and Policy. (3-0) 3 Credit Hours.**
The application of economic principles and modeling to the healthcare marketplace. Students will be given the opportunity to apply theoretical and empirical economic analysis to business and public policy issues in the healthcare industry. (Same as BOH 6543. Credit cannot be earned for both BOH 6543 and ECO 6543.) Differential Tuition: $387.

**ECO 6553. Urban and Regional Economics. (3-0) 3 Credit Hours.**
Prerequisite: An undergraduate microeconomics course. On economic aspects of urban regions and cities, including housing markets, non-market valuation of local public goods and (dis)amenities, transportation, education, land use, pollution, and public sector service delivery. Differential Tuition: $407.10.

**ECO 6573. Game Theory and Business Strategy. (3-0) 3 Credit Hours.**
Prerequisite: ECO 6013 or consent of instructor. This course is a study of strategic decision-making in interactive situations with an emphasis on economics and business applications, providing an introduction to the basic theory of static and dynamic games of complete and incomplete information, with particular consideration for the strategic roles of commitment, credibility, reputation, unpredictability, and pre-emption. Applications may include bargaining, pricing, advertising, signaling, and contracting. Differential Tuition: $387.
ECO 6583. Special Topics in Econometrics/Forecasting. (3-0) 3 Credit Hours.
Prerequisite: ECO 6103 or consent of instructor. This course explores advanced econometric or forecasting techniques. Possible topics include, but are not limited to, structural econometric modeling, panel data analysis, multiple time series analysis, forecast combinations, and big data economic forecasts with emphasis on practical applications. May be repeated for credit, but not more than 6 semester credit hours will apply to a Master’s degree. Differential Tuition: $387.

ECO 6633. Economic Design of Markets and Platforms. (3-0) 3 Credit Hours.
Prerequisite: ECO 3013 (or equivalent) and ECO 3123 (or equivalent), or doctoral standing. A study of organized markets and online platforms, with particular focus on how the design and rules of operation affect incentives, efficiency, and equity. This course examines real-world markets such as online auctions, internet platforms, matching markets, or barter exchange through the multi-faceted lens of market design, featuring qualitative analysis of documented rules, game-theoretic modeling, quantitative empirical analysis, or experimental simulation and analysis. Differential Tuition: $387.

ECO 6713. Causal Inference and Machine Learning. (3-0) 3 Credit Hours.
Prerequisite: ECO 6103 or both ECO 3123 (or equivalent) and STA 6003 (or equivalent). An introduction to modern causal inference and machine learning methods with a focus on applications to economics and business. Topics may include the potential outcomes framework, randomized control trials, matching, regression discontinuity, instrumental variables, difference-in-difference, synthetic controls, bootstrapping, LASSO, random forests, and neural networks. Differential Tuition: $387.

ECO 6763. Data Analytics with Python. (3-0) 3 Credit Hours.
An introduction to data analytics with Python, including a selection of techniques for data munging and formatting, exploratory data analysis, data visualization, and econometrics/machine learning in problems of classification, regression, prediction, and forecasting. Differential Tuition: $387.

ECO 6943. Economics Internship. (0-0) 3 Credit Hours.
Prerequisites: Graduate standing, 15 semester credit hours of graduate work, and consent of instructor. Internship must be approved in advance by the Internship Coordinator and the student’s Graduate Advisor of Record. Cannot count as an economics elective toward an M.B.A. with a concentration in Business Economics. Supervised full- or part-time off-campus work experience and training in economics. Individual conferences and written reports required. Differential Tuition: $387.

ECO 6951. Independent Study. (0-0) 1 Credit Hour.
Prerequisites: Graduate standing and permission in writing (form available) from the instructor and the student’s Graduate Advisor of Record. Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours, regardless of discipline, will apply to the degree. Differential Tuition: $129.

ECO 6953. Independent Study. (0-0) 3 Credit Hours.
Prerequisites: Graduate standing and permission in writing (form available) from the instructor and the student’s Graduate Advisor of Record. Independent reading, research, discussion, and/or writing under the direction of a faculty member. For students needing specialized work not normally or not often available as part of the regular course offerings. May be repeated for credit, but not more than 6 hours, regardless of discipline, will apply to the degree. Differential Tuition: $387.

ECO 6961. Comprehensive Examination. (0-0) 1 Credit Hour.
Prerequisite: Approval of the appropriate Graduate Program Committee to take the Comprehensive Examination. Independent study course for the purpose of taking the Comprehensive Examination. May be repeated as many times as approved by the Graduate Program Committee. Enrollment is required each term in which the Comprehensive Examination is taken if no other courses are being taken that term. The grade report for the course is either “CR” (satisfactory performance on the Comprehensive Examination) or “NC” (unsatisfactory performance on the Comprehensive Examination). Differential Tuition: $129.

ECO 6973. Special Topics. (3-0) 3 Credit Hours.
Prerequisite: Consent of instructor. An organized course offering the opportunity for specialized study not normally or not often available as part of the regular course offerings. Special Topics courses may be repeated for credit when the topics vary, but not more than 6 hours, regardless of discipline, will apply to the degree. Differential Tuition: $387.

ECO 6983. Master’s Thesis. (0-0) 3 Credit Hours.
Prerequisite: Approval of the appropriate Graduate Program Committee to take the Comprehensive Examination. Independent study course for the purpose of taking the Comprehensive Examination. Independent study course for the purpose of taking the Comprehensive Examination. May be repeated as many times as approved by the Graduate Program Committee. Enrollment is required each term in which the Comprehensive Examination is taken if no other courses are being taken that term. The grade report for the course is either “CR” (satisfactory performance on the Comprehensive Examination) or “NC” (unsatisfactory performance on the Comprehensive Examination). Differential Tuition: $129.