

## Core Courses for the Master of Science in Applied Economics Program

Courses	Descriptions:
ECON 6500 - Microeconomic Analysis	This course covers microeconomic analysis applied to public policy problems with an emphasis on practical examples and how they illustrate microeconomic theories. Policy issues such as pollution, welfare and income distribution, market design, industry regulation, price controls, tax policy, and health insurance are used to illustrate the abstract principles of microeconomics.
ECON 6510 - Macroeconomics Analysis	This course covers applied macroeconomic models used by federal agencies to explain and predict economic behavior. Course emphasizes macroeconomic data: NIPA accounts, GDP, construction and application of CPI, labor force data, and economic indicators. Students will also study a selected set of current macroeconomic topics including models of economic growth, economic fluctuations, monetary policy, the Great Recession, inflation, and financial markets.
ECON 6520 - Foundations of Empirical Research	This course covers fundamental aspects of mathematical economics, data management and interpretation emphasizing sampling, descriptive statistics, index numbers and construction of aggregated variables. Students will learn basic probability theory and statistics. The course will include an introduction to multiple regression analysis using STATA statistical software.
ECON 6530 – Econometric Modelling and Forecasting	This course covers refinements and generalizations of multiple regression analysis. Topics can include: panel data methods, instrumental variables, quasi-experimental methods, time series analysis, limited dependent variables, and sample selection corrections.

ECON 6540 - Financial Economics	This course applies microeconomic theory and applied econometric techniques to the study of financial institutions and markets for financial assets. Students will learn how economists model and estimate the value of financial assets. The economic and empirical models are of interest to public policy makers and private wealth managers. Specific topics can include financial intermediation, the regulation of financial institutions, risk management, portfolio theory, the capital asset pricing model and the efficient markets hypothesis.
ECON 6550 - Economics of Health Care	This course is an introduction to the structure, conduct, and performance of the health care market including physician services, the pharmaceutical industry, the hospital market, and health insurance using quantitative and analytic economic tools. Special emphasis is on regulatory response to market imperfections.
ECON 6560 - Economic Analysis of Law	This course applies microeconomic theory to the analysis of legal rules and institutions. Topics include property rights, externalities, contract theory, bargain theory, remedies, industrial organization, patents, damages, and antitrust.
ECON 6590- Development and Program Analysis	This course examines various methods of program evaluation including randomized and nonrandomized (retrospective) evaluations. The focus is on evaluation design and implementation including needs assessment, process evaluation, and cost benefit analysis