Fall 2022 Economics Advanced Courses

ECON 402: American Economic History

Survey of the history of the American Economy from the colonial era to the present. Studies the features and development of the American economy and examines the watershed events that have transformed it over its history. *Prerequisites: ECON 202; ECON 302; MATH 220/221 or other Calculus courses are required.*

CRN 70477; Sect. A3; TR 11:00AM-12:20PM; 321 Greg Hall
Professor I. Dilanni

ECON 411: Public Sector Economics

Economic analysis of government tax and expenditure policies; topics include public good and externality theory, public choice theory, income distribution, cost-benefit analysis, principles of taxation, tax incidence, economic effects and optimal structures of major taxes, and taxation in developing economies. *Prerequisites: ECON 302 or consent of instructor.*

CRN 40298; Sect. A3; MW 9:30AM-10:50AM; 123 DKH
Grad Student G. Marques de Amorim

ECON 415: Environmental Economics

Application of economic theory to topical issues such as pollution, climate change, and the environmental impacts of overpopulation. Both market-based and regulatory solutions to these problems are discussed. *Prerequisites: ECON 202; ECON 302; MATH 220/221 or another Calculus course.*

CRN 70758; Sect. A3; TR 11:00AM-12:20PM; 1092 LH
Professor B. Buckley

ECON 425: Macroeconomic Policy

Analyzes current macroeconomic policy issues, problems, and techniques; discusses various policy techniques including monetary, fiscal, incomes, and exchange rate policies, and their effectiveness for treating inflation, unemployment, productivity, resource, and exchange rate problems. May emphasize current issues in developed economies or in emerging market economies. *Prerequisite: ECON 203; ECON 302; ECON 303; MATH 220 or 221 are required. MATH 231 is recommended. Prior exposure to financial markets is encouraged.*

CRN 70552; Sect. A3; TR 8:00AM-9:20AM; 333 Armory
Professor R. Zhao

ECON 426: Monetary Economics and Policy

Study a variety of topics on money, banking, and financial markets. In particular, provides an introduction to money and its role in the economy, the bond market and interest rates, the stock market and other financial assets, exchange rates, banks and regulation of the banking industry, the money supply process, and monetary policy. *Prerequisites: ECON 202; 303; & MATH 231. ECON 302 recommended; Prior exposure to financial markets encouraged.*

CRN 70775; Sect. A3; TR 9:30AM-10:50AM; 1090 LH
Professor R. Zhao

ECON 440: Economics of Labor Markets

Studies the microeconomic determinants of labor demand and supply, economic effects of unions, and macroeconomic labor market problems. *Prerequisite: ECON 302 or equivalent.*

CRN 36303, Sect. A3; MW 11:00AM-12:20PM; 119 DKH
Grad Student A. Arvind

ECON 442: Women in the Economy

Applies economic models of the labor market and household organization to a wide range of important topics, including marriage, fertility, discrimination, and family policies to better understand both personal life choices and public policy problems. *Prerequisite: ECON 203; ECON 302; MATH 220 or 221 or other Calculus I equivalent; completion of campus Composition I general education requirement.*

CRN 70549; Sect. A3; MW 11:00AM-12:20PM; 206 DKH
Professor E. Powers

ECON 447: Economics of the Workplace

Application of economic theory to the relationship between workers and firms in the workplace. We will apply important economic concepts and models to issues including recruitment, personnel selection, employee training, managing turnover, job design, performance evaluation, and incentive compensation. *Prerequisites: ECON 202; ECON 302; MATH 220/221 or another Calculus course.*

CRN 70768; Sect. A3; TR 9:30AM-10:50AM; 156 Henry Admin
Professor Y. Sun

ECON 448: Employee Compensation & Incentives

Employee compensation is a critical tool for organizations to attract, retain, and motivate their employees. Students will be introduced to major principles in compensation design and examine the incentives embedded in various compensation systems. The topics include forms of pay, incentive theory, pay structure, pay-for-performance, and employee benefits. *Prerequisites: ECON 202; ECON 302; MATH 220/221 or other Calculus courses.*

CRN 70770; Sect. A3; TR 12:30PM-1:50PM; 156 Henry Admin
Professor Y. Sun

ECON 450: Development Economics

Analyzes the economic problems associated with newly developing nations; emphasize their economic structures, their factor scarcities, and their programs for development. Not open for graduate credit to graduate candidates in economics. *Prerequisite: ECON 102 and ECON 103 or equivalent. ECON 302 is strongly recommended.*

CRN 61807; Sect. A3; TR 11:00AM-12:20PM; 333 Armory
Professor R. Akresh

ECON 455: Econ of Poverty Alleviation in Developing Countries

This course examines which policies are effective for alleviating poverty, which is not, and why. The course will have a strong methodological and analytical component, focus on why interventions and policies work, and how to establish evidence on the effectiveness of specific interventions and policies. *Prerequisite: ECON 202; ECON 302; MATH 220/MATH 221 or other Calculus course are required.*

CRN 77295; Sect. A3; MW 12:30PM-1:50PM; 333 Armory
Professor A. Osman

ECON 456: Economic Developmnt & Migration

Deals with the inter-relationships between economic development and migration. After introducing the basic concepts of poverty and inequality, between as well as within countries, this course focuses on the role that migration and population growth play in the process of economic development. The causes of migration and its consequences are examined at national and international levels together with their policy implications, including those related to urbanization, brain drain, and labor market impacts of immigration. A range of migration forms is discussed, including international and internal migration, permanent and temporary migration, legal and illegal migration, as well as forced migration and refugees.

CRN 77550; Sect. A3; MW 11:00AM-12:20PM; 215B
CRN 77554; Sect. B3; MW 12:30PM-1:50PM; 215B
Professor M. Kleemans

ECON 471: Intro to Applied Econometrics

Introduction to specification, estimation, prediction, and evaluation of econometric models, emphasizing the interplay between statistical theory and economic applications. *Prerequisites: ECON 203 or equivalent; ECON 302 or ECON 303.*

CRN 66620; Sect. A3; MW 9:30AM-10:50AM;
134 Temple Buell Hall; TBD
CRN 50082; Sect. B3; MW 11:00AM-12:20PM;
2 Education Build; TBD

ECON 474: Econometrics of Policy Evaluation

Develops the basic tools to understand and use modern econometric methods for estimating and making inferences of causal effects. The topics include randomized experiments, natural experiments, matching methods, instrumental variables, and regression discontinuity. Focuses on topics that are relevant to policy problems. *Prerequisites: ECON 203; ECON 302; MATH 220/221. MATH 231; ECON 471 are recommended.*

CRN 73026; Sect. A3; TR 9:30AM-10:50PM: 119 DKH
Grad Student M. Guerra
CRN 70818; Sect. B3; MW 2:00PM-3:20PM; 333 Armory
Professor E. Chung

ECON 484: Law and Economics

Applications of economic theory to problems and issues in both civil and criminal law and the effect of legal rules on the allocation of resources; includes property rights, liability and negligence assignment, the use of administrative and common law to mitigate market failure, and the logic of private versus public law enforcement. *Prerequisites: ECON 302 or equivalent.*

CRN 66593; Sect. A3; TR 9:30AM-10:50AM; 215B DKH
Professor C. Schultz

Key for Course Area(s) of Focus:

Microeconomics   **Macroeconomics**
Econometrics/Quantitative Economics

ECON 490: Gender & Development Economics

Focuses on the role of gender economics in developing countries. A variety of topics in the intersection of gender economics and development economics will be covered, including gender inequality, women's empowerment, household dynamics, the role of government, poverty cycles, violence, and the interaction of race and gender dynamics. The course will primarily focus on the roles and circumstances of women in developing countries and how inequalities between men and women originated and continue to impact outcomes today. In addition to learning the relevant theory, assigned readings will cover recent research in each of the main topic areas. Students will read papers related to each of these topics and will write their own research paper on a topic and country of their choice.

CRN 58260; Sect. B3; TR 3:30PM-4:50PM; 119 DKH
Grad Student A. Stocker

ECON 490: Valuation of Nonmarket Goods

How much should a pianist pay for their hand insurance? Or a mining company for damages to an ecosystem? The course explores this type of question through the most common methods for the valuation of non-market goods and services. These are used often by government agencies, attorneys, and judges to calculate damages to the environment or health, insurance companies, and all branches of economics which need to assign values to goods and services that are not traded in markets. Topics include stated preferences, travel cost method, and the hedonic method, among others. By the end of the course, the student will be familiar with the most common evaluation methods and will be able to apply and modify them for new contexts.

CRN 56978; Sect. C3; MW 12:30PM-1:50PM;
106B8 Engineering Hall
Grad Student F. Cenerini

ECON 490: Behavioral Economics

Focus on the intersection of Behavioral and Experimental economics using field experiments, lab experiments, and tests of a theory to answer policy and social issue questions.

CRN 58262; Sect. D3; MW 12:30PM-1:50PM; 119 DKH
Grad Student S. Bhardwaj

ECON 490: Applied Machine Learning

This introductory course gives an overview of different concepts, techniques, and algorithms in machine learning and their applications in economics. We begin with topics such as classification, linear and non-linear regressions and end with more recent topics such as boosting, support vector machines, and Neural networks as time allows. This course will give students the basic knowledge behind these machine learning methods and the ability to utilize them in an economic setting. Students will be led and mentored to develop and solve an economic problem with machine learning methods introduced during the course. ***Prerequisite***: *ECON 203 & 302, MATH 220/221; Required ECON 471 or Recommended students have existing Econometrics knowledge.*

CRN 61740; Sect. E3; MW 12:30PM-1:50PM; 148 Armory
Grad Student D. Tabak
CRN 69172; Sect. F3; MW 3:30PM-4:50PM: 333 Armory
Professor Y. Bilias

ECON 490: Predictive Analysis

This course develops analytical tools to employ economic modeling and data to make better strategic decisions. The objective of this course is to foster data-driven critical-thinking skills through econometric analyses and statistical interpretation.

CRN 72492; Sect.I3; MW 11:00AM-12:20PM; 333 Armory
Professor R. Armendariz Buaun

ECON 490: Economic Growth

The course is designed to inspect some fundamental questions in the world economy- What are the primary factors driving the per capita GDP growth of any particular country? What explains the convergence or divergence patterns of growth rates across nations? Scholars have proposed different theories to address these concerns and we will explore some of them. Firstly, we examine long-run growth determined by exogenous factors, secondly, we discuss endogenous growth by looking at technical factors and role of human capital, thirdly we delve deeper by considering population dynamics and its implications, fourthly we look at more recent theories emphasizing the role of institutions and finally we evaluate all the theories together. The objective of the course is to enable students to apply the knowledge of macroeconomic theory and mathematical tools to address issues in growth. ***Prerequisites****: ECON 302 & 303. Recommended: Basic knowledge of any statistical software. R/Excel/ Stata may be used in a few classes.*

CRN 66869; Sect. J3; MW 12:30PM-1:50PM; 1000 LH
Professor J. Vazquez

🪙 Micro   **🌐 Macro**   **📊 Econometrics/Quant.**