

# ECONOMICS

## Faculty

**Professors:** Erdogan Bakir, Nina E. Banks, Thomas C. Kinnaman, Janet T. Knoedler (Co-chair), David Kristjanson-Gural, Christopher S. P. Magee (Co-chair), Geoffrey E. Schneider, Matías Vernengo, Amy M. Wolaver

**Associate Professors:** Shahram Azhar, Vahid Gholampour, Carl Shu-Ming Lin, Christine Ngo

**Assistant Professors:** Rachel Landsman, Stephan Lefebvre, Ozlem Omer Cender, Jacob Powell, Shanike Smart

The study of economics, as with the other social sciences, attempts to explain various types of human behavior and the impact that society's institutions have in determining that behavior. Of particular interest are the forces that determine an economy's production, employment, distribution of income, poverty and international economic relationships.

Economics at Bucknell is also an integral part of the liberal arts. The department's primary goal is to cultivate patterns of inquiry that produce economic literacy, independent thinking and a commitment to lifelong learning and a socially responsible life.

A major in economics offers a background for careers in law, journalism, finance and consulting, government and international affairs, teaching, industrial relations, public service and many others. The major also provides the essential first stage for students interested in graduate work in economics, and a solid foundation for the graduate study of business, public policy and the law.

## Major in Economics

Requires 10 course credits.

ECON 101	Economic Principles/Problems	1
Three intermediate theory courses:		
ECON 202	Intermediate Microeconomics	1
ECON 203	Intermediate Macroeconomics	1
ECON 204	Intermediate Political Economy	1
Three Economic electives, two at the 300 level or above		3
Culminating Experience (400-level economics seminar)		1
<b>Major related courses:</b> <sup>1</sup>		
MATH 192 or MATH 201	Topics in Calculus <sup>2</sup> Calculus I	1
MATH 216	Statistics I <sup>3</sup>	1

<sup>1</sup> Calculus must be taken in the first three semesters before the student applies to the major. Statistics should be taken in the first four semesters. Intermediate core economics theory courses should be completed by the end of the junior year.

<sup>2</sup> Or another course to fulfill the calculus requirement.

<sup>3</sup> Or another course to fulfill the statistics requirement.

Although economics courses are offered at the 200, 300 and 400 levels, economics majors must take at least two electives at the 300 level or above. Majors are encouraged to consult with their academic adviser when selecting economics electives.

Students may transfer as many as two off-campus course credits to meet the requirements of the economics major. This restriction does not apply to transfer students. In addition, all economics courses taught by or sponsored by Bucknell faculty members in the Bucknell in Cape Town, Bucknell en España, Bucknell en France, Bucknell in Barbados, or Bucknell in London programs will count toward the major and the minor. Courses taken off campus will count as 200 level unless they require intermediate economics courses (ECON 202 Intermediate Microeconomics, ECON 203 Intermediate Macroeconomics, ECON 204 Intermediate Political Economy, or the equivalent). Students should provide clear information about the character and quality of off-campus courses to the department chair for student issues to determine if these courses adequately substitute for material that would be taught on campus.

Each academic year, the department will solicit applications from all potential majors. Criteria for acceptance to the program will emphasize academic achievement in core economics courses and completion of calculus. Please see the economics department website for specific and up-to-date details and pre-application requirements.

Students interested in pursuing postgraduate work in economics upon graduation from Bucknell are strongly encouraged to take the following mathematics courses:

MATH 201	Calculus I	1
MATH 202	Calculus II	1
MATH 211	Calculus III	1
MATH 216	Statistics I	1
MATH 303	Probability	1
MATH 304	Statistical Inference Theory	1

Other mathematics courses (for example, MATH 245 Linear Algebra, MATH 212 Differential Equations) are also helpful. In addition, students preparing for graduate study in economics should strongly consider taking ECON 241. Please see the economics department graduate school adviser as early in your degree program as possible for additional information and guidance.

The economics major contributes to the College of Arts & Sciences Core Curriculum (CASCC) by introducing three intellectual skills required of all majors. *Information literacy* is introduced in ECON 202 Intermediate Microeconomics and ECON 203 Intermediate Macroeconomics, when students will be introduced to microeconomic and macroeconomic data and/or information sources used to perform economic data analysis. In statistics (MATH 216 Statistics I), a corequisite course for the major, students will learn about statistical inference, another key component of information literacy in economics. *Writing within the curriculum* will be developed in the senior Culminating Experience course. Students in this course will be given repeated opportunities to write about economics in a clear and cohesive manner. Finally, *speaking* will also be introduced in the senior Culminating Experience course. In each seminar, students will give a formal presentation and will write a research paper in economics, which will require them to reference peer-reviewed scholarship.

The senior seminar serves as the Culminating Experience for the economics major. All senior seminars require intermediate theory courses as prerequisites and serve to culminate the accumulated body of economics knowledge and experience. Some senior seminars will also build upon calculus and statistics. The Culminating Experience requirement may also be fulfilled if a student completes an honors thesis.

## Additional Courses Accepted for Economics Credit

ANTH 266	Money, Markets and Magic	1
GEOG 209	Economic Geography	1
HIST 225	Topics in American Political and Economic History (History of Capitalism)	1

## Economics Minor

ECON 101	Economic Principles/Problems	1
Four economics electives		4

All economics courses taught by or sponsored by Bucknell faculty members in the Bucknell in Cape Town, Bucknell en España, Bucknell en France, Bucknell in Barbados, and Bucknell in London programs will count toward the minor. Students in other off-campus programs may count up to two off-campus courses toward the minor. ECON 104, ECON 1AP and ECON 1TR do not count toward the minor.

Majors in economics will be able to:

- Identify and analyze mainstream and heterodox economic concepts, theories and tools. (1, 2, 3, 4, 5, 6, 9)
- Summarize, explain and critically analyze economic arguments orally and in writing. (1, 7)
- Locate and interpret economic data. (1, 6, 8)
- Locate, interpret and assess sources of economic information. (1, 8, 9)
- Develop skills and knowledge that provide a foundation for pursuing lifelong learning and a socially responsible life. (3, 5, 9)

Numbers in parentheses reflect related Educational Goals of Bucknell University.

## Courses

**ECON 101. Economic Principles/Problems. 1 Credit.**

**Offered Either Fall or Spring; Lecture hours:3**

General introduction to both macroeconomics and microeconomics, along with an introduction to economic history, international economics, and political economy. The course also examines the origin of economic ideas in the works of Adam Smith, John Maynard Keynes, Karl Marx, and others.

**ECON 104. The Evolution of Economic Ideas and Systems. .25 Credits.**

**Offered Fall, Spring, Summer; Lecture hours:1**

This course covers how economic ideas evolved alongside changes in economic systems. Topics include the economic thought of Smith, Marx, Veblen, Keynes and Hayek, and economic systems such as ancient communism, empires, feudalism, mercantilism and various forms of capitalism. Students read and write independently on the topic.

**ECON 127. International Economics. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

An examination of international economic relations today and of the theory used to analyze trade and financial relations. Attention is given to the problems of government policy with respect to international issues.

**ECON 198. Independent Study. .25-1 Credits.****Offered Fall, Spring or Summer; Lecture hours:Varies,Other:3; Repeatable**

Independent Study - Individual product or project supervised by a member of the economics department.

**ECON 202. Intermediate Microeconomics. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

Intermediate Microeconomic theory of the consumer, the firm, market structures, and resource allocation. Topics are introduced using differential calculus. Prerequisites: ECON 101 and (MATH 192 or MATH 201).

**ECON 203. Intermediate Macroeconomics. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

The study of national income, employment, inflation, interest rates, and the impact of monetary and fiscal policy on the economy. Prerequisite: ECON 101 and (MATH 192 or MATH 201).

**ECON 204. Intermediate Political Economy. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

Intermediate study of Marxist and institutionalist political economy. The ideas of Marx and Veblen applied to such matters as the distribution of income and power, the environment, working conditions, consumerism, and race and gender issues. Prerequisite: ECON 101.

**ECON 209. Economic Geography. 1 Credit.****Offered Both Fall and Spring; Lecture hours:3**

Inquiry into local and global changes in economic activity, location and spatial organization, especially focusing on implications for the well-being of people in particular places. Crosslisted as GEOG 209.

**ECON 210. Introduction to Behavioral Economics. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

This course introduces students to the field of economics focused on incorporating psychological insights into models of decision making and group interaction. This course provides students with an overview of an assortment of research topics and methods within the field of behavioral economics. Seniors require permission of the instructor.

**ECON 215. Economics of Education. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

This course integrates the study of economics with education by employing economic principles, frameworks and analytical tools, to analyze and assess the various factors influencing educational decision-making, policies, resource allocation and outcomes. At its core, this course explores the fundamental question: What role does education play within the economy?.

**ECON 217. Geographies of Uneven Development. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

In this course, we will build a critical understanding of the nature and processes of development in the global south countries while exploring the role of colonialism, imperialism and capitalism. Includes topics such as global political-economic change, population growth, human capital, microfinance, food politics and gender inequality. Crosslisted as GEOG 227.

**ECON 220. Political Economy of Neoliberalism. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

This course interrogates our current economic period: Neoliberalism. We analyze power differentials and economic disparities created by neoliberalism. Specific attention is paid to the shifting role of government in the economy, mass incarceration, and the 2008 financial crisis. Prerequisite: ECON 101. First- and second-year students only; others by permission.

**ECON 222. Economic Topics. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3; Repeatable**

Selected issues in economic theory or policy. Prerequisite: ECON 101.

**ECON 224. African Women & Social Action. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

Analysis of topics in films and novels by Ousmane Sembene: pre-colonial history, colonialism, post-colonial independence, racial and gender oppression, worker exploitation, religious conflict, and modernization. Prerequisites: ECON 101 or permission of the instructor. Crosslisted as WMST 224.

**ECON 226. Political Economy of the European Integration. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

Introduction to core issues and theories related to the economic and political processes of European integration. Offered through Bucknell in London. Crosslisted as POLS 221.

**ECON 231. Economics of Climate Change. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

This course reviews climate science and the sources and expected impacts of climate change. Domestic and international climate policy instruments are evaluated with special attention given to the effects of climate policy on economic development and equity. Prerequisite: ECON 101.

**ECON 235. African Economic Development. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

A historical, institutional analysis of Sub-Saharan African economic, social, and political development. Primary emphasis will be on the analysis of the economic crisis facing the subcontinent since the late '70s and the structural adjustment programs that have been instituted to deal with the crisis. Prerequisite: ECON 101.

**ECON 237. Health Politics and Health Policy. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

History of health care delivery and financing in the United States and introduction to and evaluation of current topics in health policy. Prerequisite: ECON 101 or permission of the instructor. First- or second-year standing, others by permission.

**ECON 241. Econometrics. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

The application of statistical methods to quantify and test economic theories, analyze government policies, and forecast economic variables. Prerequisites: ECON 101 and (MATH 216 or MATH 227 or PSYC 215) and (MATH 192 or MATH 201).

**ECON 243. Global Communities. 1 Credit.****Offered Occasionally; Lecture hours:3**

This course explores the complexities of globalization, analyzing its benefits, challenges and diverse impacts. The course hones critical thinking, reading, writing and communication skills while addressing global political, economic, cultural and environmental issues. Students will engage with multiple perspectives to become informed participants in global discussions and problem-solving. Crosslisted as SOCI 343.

**ECON 246. American Capitalism. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

This course explores the origins and development of capitalism in the United States. Property rights, how notions of time and space changed markets, proletarianization, alienation, commodification, and the role the government played (or not) in shaping the economy are some of the topics that we will cover. Crosslisted as HIST 226.

**ECON 260. Understanding Capitalism. 1 Credit.****Offered Occasionally; Lecture hours:3**

The course exposes students to an analysis of how capitalism works via the work of two of its greatest analysts: Karl Marx and John Maynard Keynes. It analyzes the production, distribution, exchange and consumption of material wealth under the laws of capitalism.

**ECON 270. South Africa: Social Entrepreneurship. 1 Credit.****Offered Summer Session Only; Lecture hours:15**

The course examines the legacy of apartheid and the role of social entrepreneurship in transforming communities. Students are placed in community organizations in nearby townships. Prerequisite: permission of the instructor. Crosslisted as UNIV 284.

**ECON 273. Latin American Economic Development. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

The course deals with historic and contemporary economic problems, starting from colonial times and reaching the present integration into world economy. Crosslisted as IREL 278 and LAMS 273.

**ECON 280. Political Economy of Media and Advertising. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

Examines the interrelationship of cultural, political, and economic aspects of media content and advertising from the perspective of Institutional and Marxian political economy. Prerequisite: ECON 101 or permission of the instructor.

**ECON 281. Understanding the Global Economy. 1 Credit.****Offered Either Fall or Spring; Lecture hours:1**

This course develops a political economy framework to analyze the global economy. It covers theories of international trade, international finance, economic development, and technological change. The course applies the theoretical tools to assess how globalization influences performance, strategy, and policies within nations and firms, and across industries.

**ECON 282. Introduction to Programming for Economics. 1 Credit.****Offered Occasionally; Lecture hours:3**

Students are introduced to Python programming and some of its applications in economics and finance. Students develop the necessary skills to bring datasets to Python and answer interesting questions. The course covers the basics of preparing various data types, data visualization, and solving problems. No programming background is needed.

**ECON 298. Independent Study. .25-1 Credits.****Offered Either Fall or Spring; Lecture hours:Varies,Other:3**

Individual product or project supervised by a member of the economics department typically resulting in the production of a long research paper. Prerequisites: ECON 101 and permission of the instructor.

**ECON 299. Teaching Assistants in Economics. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

This course can only be taken by economic majors who have permission and have taken the prerequisites. Prerequisites: ECON 202 and ECON 203 and ECON 204 and permission of the instructor.

**ECON 2NT. Economics Non-traditional Study. .25-1 Credits.****Offered Fall, Spring or Summer; Lecture hours:Varies,Other:Varies; Repeatable**

Non-traditional study in economics. Prerequisite: permission of the department chair or the instructor.

**ECON 304. Financial Economics. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

The course is focused on theory of finance and asset pricing. Topics include state pricing theory, capital asset pricing model, portfolio theory and risk aversion. Prerequisites: ECON 202 and (MATH 216 or MATH 227 or PSYC 215).

**ECON 308. Economics of Innovation. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

This course introduces students to the important issues related to technological change and innovation – how new technologies impact the economy and our society. The lectures also focus on economic and social policies aimed at promoting growth and development.

**ECON 311. Labor Economics. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

An examination of economic models related to labor markets, current labor market trends, and the influence of related government policies.

Prerequisites: ECON 202 and (MATH 216 or MATH 227 or MATH 304 or PSYC 215).

**ECON 313. Public Economics. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

An analysis of the government's role in the economy. Topics include the economic rationale for government, expenditure analysis, and the allocative and distributive consequences of taxation. It is strongly recommended that students have one semester of statistics. Prerequisite: ECON 202.

**ECON 319. Economic History of Women in the United States. 1 Credit.****Offered Occasionally; Lecture hours:3**

An examination of economic models related to labor markets, current labor market trends, and the influence of related government policies.

Prerequisite: ECON 202 or ECON 203 or ECON 204. Crosslisted as WMST 318.

**ECON 321. Social Theory: Deconstructing Power. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

This course will explore how we can understand power in the economy by studying different social theoretical approaches to power. Following a survey of theories of power, we will begin to apply these theories in economic contexts to understand how power hierarchies are created, sustained, maintained and changed.

**ECON 326. History of Economic Thought. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

Discussion of original sources of economic ideas. Readings about Quesnay, Smith, Ricardo, Marx, Marshall, Keynes, Hayek and others. Prerequisite:

ECON 203 with a minimum grade of D and ECON 204 with a minimum grade of D.

**ECON 328. Money and Financial Institutions. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3; Repeatable**

An analysis of the role of the financial system in the U.S. economy. Topics include determinants of asset prices, risk management, and financial

regulations. Prerequisites: ECON 203 and (MATH 216 or MATH 227).

**ECON 330. Law and Economics. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

This course examines several areas of law from the "Law and Economics" perspective and analyzes the assumptions that underlie this approach to law. Property rights law, contract law, and tort law will be covered. Prerequisite: ECON 202.

**ECON 333. Seminar in Economic Topics. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3; Repeatable**

Guided discussion of economic issues. Topics to be announced at time of preregistration. Prerequisites: ECON 202 and ECON 203 and ECON 204 or permission of the instructor.

**ECON 337. International Monetary and Financial Economics. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

The course covers balance of payments, foreign exchange markets, international monetary systems, the adjustment mechanism, macroeconomic policy in an open economy and monetary integration. Prerequisite: ECON 203 or permission of the instructor.

**ECON 339. China & East Asian Economics. 1 Credit.****Lecture hours:3**

An analysis of economic transition and development in China, with emphasis on its role in the Asia-Pacific and world economies. Prerequisites: ECON 202 and ECON 203 or permission of the instructor. Crosslisted as EAST 339.

**ECON 342. Methods in Experimental Economics. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

This course provides students with an introduction to methods used in conducting experimental economics research. The course explores different types of experiments (survey/lab/or field) used in economic research, experimental design and select research topics. Prerequisites: (ECON 202 or ECON 210) and (MATH 216 or MATH 227 or ANOP 102 or PSYC 215).

**ECON 350. Classical Marxism. 1 Credit.****Offered Fall Semester Only; Lecture hours:3**

The goal is to develop an understanding of Marx's analysis of capitalism by reading mainly original texts by Marx and consider its applications both to disciplinary thinking and contemporary events. Crosslisted as GEOG 350.

**ECON 353. Gender & Migration. 1 Credit.****Lecture hours:3**

This course focuses on the role of gender in internal and international migrations. It covers gendered motivations for and patterns of migration; the global economy and migration, migration and families, forced migration, migration and economic restructuring, and transnational marriage and identity. Prerequisites ECON 203 or ECON 204 or WMST 150. Crosslisted as WMST 353.

**ECON 357. Economic Development. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

The main theories of development; economic and social dualism; agricultural, industrial, and trade strategies; and the role of less developed countries in the emerging global economy. Prerequisites: ECON 202 with a minimum grade of D and ECON 203 with a minimum grade of D and permission of the instructor.

**ECON 358. Marxian Economics. 1 Credit.****Lecture hours:3**

Applies Marxian value theory and class analysis to understand contemporary U.S. capitalism. Explains how prices are determined and how competition acts to distribute value, revolutionize technology and working conditions, and trigger economic crises. Explores gender and class in the enterprise and household and examines economic democracy as a viable alternative.

**ECON 360. Political Economy of Advanced Capitalism: Economic Crises & Conflict. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

This course will focus on the structure and the dynamics of the advanced capitalist economies, including the United States. Among other topics, it will examine the empirical evidence and the theoretical claims of the political economy approach concerning economic and financial crises.

**ECON 365. Global Value Chains: How the Modern World Economy Works. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

The course provides an in-depth analysis of how our modern world capitalist economy organizes the politics and economics of contemporary supply chains by slicing up the financing, production, distribution, exchange, and consumption of the goods and services that we consume across the world.

**ECON 398. Independent Study. .25-1 Credits.****Offered Either Fall or Spring; Lecture hours:Varies,Other:Varies; Repeatable**

Individual study or project, supervised by instructor. Prerequisites: ECON 202 or ECON 203 or ECON 204 and permission of the instructor.

**ECON 402. Economics of Inequality. 1 Credit.****Offered Spring Semester Only; Lecture hours:3**

A critical analysis of economic inequality focused on competing frameworks for inequality and proposed visions for what should be done. Topics include class conflict, race and ethnicity, gender, wealth, labor markets and social change. Prerequisites: ECON 202 and ECON 204.

**ECON 405. Comparative Economic Systems. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

A comparison of the cultures and institutions of modern economic systems. The characteristics of selected capitalist, social democratic and socialist economies are assessed from mainstream, Institutional and Marxian analytical perspectives. Prerequisite: ECON 204 or permission of the instructor.

**ECON 408. Seminar in Political Economy: The State and The Economy. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

This course analyzes the role of The State in the economy. We will explore alternative theoretical understandings of the role of the state. Following this, we will investigate the role the state is playing in the economy today. Is it the source of problems or the solution to current issues?.

**ECON 410. Risk Management in Financial Markets. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

The course is focused on the applications of finance theory in asset pricing and risk management. The topical coverage will extend to fixed income, equity securities, options, derivatives, risk analysis, and hedging strategies. Prerequisite: ECON 202 or permission of the instructor.

**ECON 412. Health Economics. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

Theoretical and empirical examinations of issues in health economics. Course includes semester-long research project on a health topic. Prerequisites: ECON 202 and (MATH 216 or MATH 227 or MATH 304).

**ECON 418. American Economic History. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

An examination of the development and influence of American economic institutions from colonial to current times. Prerequisites: ECON 203 and ECON 204.

**ECON 422. Experimental Economic Topics. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

Experimental economics uses researcher-controlled methods to investigate individual and group decision-making. In this course, students will critically analyze existing experimental economic research through discussion, reading and writing. Students will also learn best practices in experimental economic research through a semester-long research project.

**ECON 426. Topics in the History of Economic Thought. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3; Repeatable**

Discussion of the relation between economic ideas and policy in the United States. Readings about Hamilton, Carey, Ely, Commons, Clark, Eccles, Okun, and others. Prerequisite: ECON 203.

**ECON 427. International Economic Theory. 1 Credit.****Offered Fall Semester Only; Lecture hours:3**

Theoretical principles underlying international trade, investment, commercial policy, economic integration, adjustment mechanisms, and balance of payments policy will be examined with an application to current national/international policies. This course isn't open to students that have taken ECON 327. Prerequisites: ECON 203 and ECON 203.

**ECON 429. Political Economy of Financial Crises. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

This course will explore the causes and consequences of financial crises from macroeconomic perspectives, with most of the attention given to the recent financial crisis in the United States. Prerequisite: ECON 204 or permission of the instructor.

**ECON 441. Econometric Research. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

Advanced panel data methods, instrumental variables and two stage least squares, simultaneous equations, limited dependent variables, sample selection bias, advanced time series, and writing and presenting an empirical research project. Prerequisites: (ECON 202 or ECON 203 or ECON 204) and (ECON 241 or ECON 341).

**ECON 444. Senior Seminar in Economic Topics. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3**

Topics to be announced at the time of preregistration. Prerequisites: ECON 202 and ECON 203 and ECON 204.

**ECON 450. Political Economy of Digital Capitalism. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3; Repeatable**

The course examines recent theoretical and empirical debates pertaining to the political economy of digital economic processes and their impact, in turn, on domestic and global development. Prerequisite: ECON 204 or permission of the instructor.

**ECON 499. Honors Thesis in Economics. 1 Credit.****Offered Either Fall or Spring; Lecture hours:3; Repeatable**

Individual research, leading to an honors thesis in economics, undertaken by qualified students, and supervised by an instructor in the department of economics. Prerequisite: permission of instructor and Honors Council. Prerequisite: ECON 202 or ECON 203 or ECON 204.