**ECONOMICS (ECON)**

**ECON 100 — ECONOMIC APPROACH TO CURRENT ISSUES**
3-4 credits.

Emphasizes current economic issues and illustrates how the economist's perspective helps understand them. Academic readings and popular books such as Freakonomics will be used to indicate the breadth and scope of questions that can be analyzed from an economic perspective. Enroll Info: None
Requisites: MATH 96 or placement into MATH 112 or satisfied Quantitative Reasoning (QR) A requirement. Not open to students with credit for ECON 101, 102, or 111
Course Designation: Breadth - Social Science
Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Fall 2021

**ECON 101 — PRINCIPLES OF MICROECONOMICS**
4 credits.

Economic problems of individuals, firms and industries with emphasis on value, price, and distribution of income. Enroll Info: None
Requisites: Satisfied Quantitative Reasoning (QR) A requirement. Not open to students with credit for ECON 111
Course Designation: Gen Ed - Quantitative Reasoning Part B
Breadth - Social Science
Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Fall 2021

**ECON 102 — PRINCIPLES OF MACROECONOMICS**
3-4 credits.

Macroeconomic measurement and models of aggregate demand and supply; fiscal and monetary policy for unemployment, inflation, and growth. Enroll Info: None
Requisites: ECON 101 or A A E 215. Not open to students with credit for ECON 111
Course Designation: Breadth - Social Science
Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Fall 2021

**ECON 109 — STUDY ABROAD IN INTRODUCTORY ECONOMICS**
1-4 credits.

Provides an equivalency for introductory level economics courses taken on UW-Madison study abroad programs. Enroll Info: None
Requisites: None
Course Designation: Breadth - Social Science
Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: Yes, unlimited number of completions

**ECON 111 — PRINCIPLES OF ECONOMICS-ACCELERATED TREATMENT**
4 credits.

Integrated treatment of macroeconomics and microeconomics (see ECON 101 and ECON 102). Accelerated approach to economics training, especially for Economics: Math Emphasis majors. Enroll Info: None
Requisites: MATH 112 or 113 or placement into MATH 221. Not open to students with credit for ECON 101 or 102
Course Designation: Gen Ed - Quantitative Reasoning Part B
Breadth - Social Science
Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Honors - Accelerated Honors (!)
Repeatable for Credit: No
Last Taught: Fall 2021

**ECON 205 — QUANTITATIVE TOOLS FOR ECONOMICS**
3-4 credits.

The objective of this course is to refine the quantitative skills necessary to succeed in intermediate- and advanced-level economics courses. The principle focus will be on applying the skills acquired in your math courses to the questions, models, and optimization problems that are common in economics. Topics include specific economic applications of algebra, financial mathematics, and calculus. Enroll Info: None
Requisites: (ECON 101, 102, 111 or concurrent enrollment) and (MATH 211, 217, 221 or 275)
Course Designation: Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Fall 2021

**ECON 228 — INTERNSHIP ECONOMICS**
1 credit.

Internship in economics related field. Enroll Info: Students must be declared in the Economics major.
Requisites: Consent of instructor
Course Designation: Level - Elementary
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: Yes, for 2 number of completions
Last Taught: Fall 2021

**ECON 299 — DIRECTED STUDY**
1-3 credits.

Study of topics at elementary undergraduate level as arranged with a faculty member. Enroll Info: None
Requisites: Consent of instructor
Course Designation: Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Spring 2014
**ECON/FINANCE 300 — INTRODUCTION TO FINANCE**
3 credits.

Concepts and techniques in corporate finance and investments. Topics include the financial environment, securities markets, financial markets, financial statements and analysis, working capital management, capital budgeting, cost of capital, dividend policy, asset valuation, investments, decision making under uncertainty, mergers, options, and futures. Enroll Info: None

**Requisites:** (ECON 101, 111, or A A E 215) and (ACCT I S 100 or 300 or concurrent enrollment in ACCT I S 100) and (GEN BUS 306, ECON 310, STAT/MATH 309, 431, STAT 224, 301, 302, 309, 311, 324, 371, or PSYCH 210, or concurrent enrollment); or Business Exchange student

**Course Designation:** Breadth - Social Science  
Level - Intermediate  
L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No  
**Last Taught:** Fall 2021

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**ECON 301 — INTERMEDIATE MICROECONOMIC THEORY**
4 credits.

Contemporary theory of consumption, production, pricing and resource allocation. Enroll Info: None

**Requisites:** [(MATH 217 or 221) and (ECON 101, 111, or AAE 215)] or (MATH 211, ECON 101 and 102) or (MATH 211, AAE 215 and ECON 102). Not open to students with credit for ECON 311.

**Course Designation:** Breadth - Social Science  
Level - Intermediate  
L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No  
**Last Taught:** Fall 2021

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**ECON 302 — INTERMEDIATE MACROECONOMIC THEORY**
4 credits.

Principles and theories of national income determination, analysis of savings, consumption, investment and other aggregates in the national and international economy and relation to employment, inflation and stabilization. Enroll Info: None

**Requisites:** MATH 211, 217, 221, or 275 and (ECON 101 and 102) or (A A E 215 and ECON 102) or ECON 111. Not open to students with credit for ECON 312.

**Course Designation:** Breadth - Social Science  
Level - Intermediate  
L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No  
**Last Taught:** Fall 2021

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**ECON/HIST SCI 305 — DEVELOPMENT OF ECONOMIC THOUGHT**
3-4 credits.

Development of economic thought from the middle ages to the present; emphasis on major schools of thought including Classical, Marxist, Neo-Classical, and Keynesian schools. Enroll Info: None

**Requisites:** (ECON 101 and 102) or (A A E 215 and ECON 102) or ECON 111

**Course Designation:** Breadth - Social Science  
Level - Intermediate  
L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No  
**Last Taught:** Fall 2021

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**ECON/A A E/REAL EST/URB R PL 306 — THE REAL ESTATE PROCESS**
3 credits.

Introductory survey course. Decision-making processes for the manufacture, marketing, management and financing of real estate space. Survey of institutional context, economics of urbanization, historical pattern and structure of city growth, and public policy issues regarding urban environment and business management. Enroll Info: None

**Requisites:** Sophomore standing and (ECON 101 or 111) or member of Business Exchange program

**Course Designation:** Breadth - Social Science  
Level - Intermediate  
L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No  
**Last Taught:** Fall 2021

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**ECON 309 — STUDY ABROAD IN INTERMEDIATE ECONOMICS**
1-4 credits.

Provides an equivalency for intermediate level economics courses taken on UW-Madison study abroad programs. Enroll Info: None

**Requisites:** None

**Course Designation:** Breadth - Social Science  
Level - Intermediate  
L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** Yes, unlimited number of completions

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**ECON 310 — STATISTICS: MEASUREMENT IN ECONOMICS**
4 credits.

Introduction to analysis of economic data. The techniques of descriptive statistics and statistical inference (hypothesis testing and estimation) as directed toward application in economic research. Enroll Info: None

**Requisites:** ECON 101, 102, or 111 and MATH 211, 217, 221, or 275

**Course Designation:** Gen Ed - Quantitative Reasoning Part B

**Level - Intermediate**  
L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Repeatable for Credit:** No  
**Last Taught:** Fall 2021

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**ECON 311 — INTERMEDIATE MICROECONOMIC THEORY - ADVANCED TREATMENT**
3 credits.

A mathematical approach to the theory of consumption, production, pricing and resource allocation. Enroll Info: None

**Requisites:** (MATH 222 or 276) and (ECON 101 and 102) or ECON 111. Not open to students who have credit for ECON 301

**Course Designation:** Breadth - Social Science  
Level - Intermediate  
L&S Credit - Counts as Liberal Arts and Science credit in L&S

**Honors - Accelerated Honors (!)**  
**Repeatable for Credit:** No  
**Last Taught:** Fall 2021
ECON 312 — INTERMEDIATE MACROECONOMIC THEORY - ADVANCED TREATMENT
3 credits.

A mathematical approach to the principles and theories of national income determination, analysis of savings, consumption, investment and other aggregates in the national and international economy and relation to employment, inflation, and stabilization. Enroll Info: None
Requisites: (MATH 222 or 276) and (ECON 101 and 102) or ECON 111.
Not open to students who have credit for ECON 302
Course Designation: Breadth - Social Science
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S Honors - Accelerated Honors (!)
Repeatable for Credit: No
Last Taught: Spring 2021

ECON 315 — DATA VISUALIZATION FOR ECONOMISTS
3-4 credits.

Introduction to the fundamental concepts of economic data visualization and analysis. Develop a toolkit of skills to visualize, interpret, and communicate data. After examining the fundamentals of data visualization, emphasis is on methods using Tableau to design and develop dashboards, graphs, and charts to ease quick and accurate interpretation of economic relationships. Move beyond tabular results to display and demonstrate the findings of economic research. Enroll Info: None
Requisites: (ECON 101 or 111) and ECON 310
Course Designation: Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Summer 2021

ECON/FINANCE 320 — INVESTMENT THEORY
3 credits.

Structure and functioning of securities markets; principles of portfolio construction; models of the tradeoff between risk and expected return. Enroll Info: None
Requisites: FINANCE/ECON 300, (MATH 213, 222, or 276) and (GEN BUS 307, 656, ACT SCI 654, 655, ECON 400, 410, STAT/MATH 310, STAT 312, or 333 or concurrent enrollment); or member of Business Exchange program
Course Designation: Breadth - Social Science
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Fall 2021

ECON 321 — SPORTS ECONOMICS
3-4 credits.

An examination of the economics behind major professional and intercollegiate sports teams and franchises. Topics covered include the organization of leagues, competitive balance, cooperative and collusive behavior, measurement of productivity, the market for franchises, sale and resale of tickets, and public financing of facilities. Enroll Info: None
Requisites: ECON 101, 111, or A A E 215
Course Designation: Breadth - Social Science
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Summer 2021

ECON 330 — MONEY AND BANKING
4 credits.

Monetary economics; the role of money in the determination of output, prices and interest rates; commercial and central banking, monetary policy, the international monetary system. Enroll Info: None
Requisites: (ECON 101 and 102) or ECON 111
Course Designation: Breadth - Social Science
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Fall 2021

ECON/A A E/ENVIR ST 343 — ENVIRONMENTAL ECONOMICS
3-4 credits.

Microeconomic principles underlying the use of natural resources such as air, water, forests, fisheries, minerals and energy. These principles are applied in the examination of pollution control, preservation vs. development, deforestation, and other environmental issues. Enroll Info: None
Requisites: A A E 215, ECON 101, or 111
Course Designation: Breadth - Social Science
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S Sustain - Sustainability
Repeatable for Credit: No
Last Taught: Summer 2021

ECON 355 — THE ECONOMICS OF GROWING-UP AND GETTING OLD
3-4 credits.

What does economics have to say about how or why people decide to go to school, get married (or divorced), or have children? Use economic models to investigate these "every day occurrences." Start with early childhood and trace out the life cycle from schooling to retirement, concentrating on six stages of life: early childhood; schooling; adolescence; marriage and divorce; fertility; and retirement decisions. Enroll Info: None
Requisites: ECON 310
Course Designation: Breadth - Social Science
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S Sustain - Sustainability
Repeatable for Credit: No
Last Taught: Fall 2019
ECON 364 — SURVEY OF INTERNATIONAL ECONOMICS
3-4 credits.
Contemporary theory of international trade and finance applied to current economic events. Enroll Info: None
Requisites: ECON 101. Not open to students with credit for ECON 301, 311, or 464
Course Designation: Breadth - Social Science
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Fall 2014

ECON 370 — ECONOMICS OF POVERTY AND INEQUALITY
3 credits.
Analysis of patterns and causes of poverty and inequality. Topics include theoretical approaches, measurement, historical perspectives and policy responses. Enroll Info: None
Requisites: (ECON 101, 102, and 310) or (ECON 111 and 310)
Course Designation: Breadth - Social Science
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Sustain - Sustainability
Repeatable for Credit: No
Last Taught: Fall 2021

ECON/A A E 371 — ENERGY, RESOURCES AND ECONOMICS
3 credits.
Use microeconomic theory to analyze energy markets. Discuss the economics of oil, gas, and electricity and learn about applications to contemporary issues and policy questions. Enroll Info: None
Requisites: A A E 215, ECON 101, or 111
Course Designation: Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Sustain - Sustainability
Repeatable for Credit: No
Last Taught: Fall 2021

ECON 390 — CONTEMPORARY ECONOMIC ISSUES
3 credits.
Topics vary, including current developments in all fields of economics. Enroll Info: None
Requisites: ECON 101 or 111
Course Designation: Breadth - Social Science
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2021

ECON 400 — INTRODUCTION TO APPLIED ECONOMETRICS
4 credits.
An introduction to applied econometrics - the statistical methods economists use to evaluate empirical relationships and test economic theory. Emphasis on application of econometrics to real world data using modern statistical software and developing skills needed to understand empirical work in economics. Enroll Info: None
Requisites: ECON 310, (STAT 240 and 340), 302, 303, 311, 324, STAT/MATH 309, or 431. Not open to students with credit for ECON 410.
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Fall 2021

ECON 409 — STUDY ABROAD IN ADVANCED ECONOMICS
1-4 credits.
Provides an equivalency for advanced level economics courses taken on UW-Madison study abroad programs for which there is no exact UW-Madison equivalent. Course must be of equal rigor to those offered on campus. To receive this equivalent, departmental pre-approval is required. Enroll Info: None
Requisites: None
Course Designation: Breadth - Social Science
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: Yes, unlimited number of completions

ECON 410 — INTRODUCTORY ECONOMETRICS
4 credits.
Statistical methods used in applied economic research. Topics include: survey methods and data sources; multiple regression and analysis of variance; econometric estimation; forecasting and policy applications. Enroll Info: None
Requisites: ECON 310 and (MATH 217, 221, 275). Not open to students with credit for ECON 400
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Fall 2021

ECON/REAL EST/URB R PL 420 — URBAN AND REGIONAL ECONOMICS
3 credits.
Nature and structure of urban economies; location of economic activity; economic analysis in an urban framework; principles of urban economic development, housing, transportation, poverty and unemployment and municipal finance. Forecasting of economic activity using census and socioeconomic data. Enroll Info: None
Requisites: (ECON 101 or 111) or member of Business Exchange program
Course Designation: Breadth - Social Science
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Sustain - Sustainability
Repeatable for Credit: No
Last Taught: Fall 2021
ECON/A E 421 — ECONOMIC DECISION ANALYSIS
4 credits.
Managerial oriented, applied presentation of microeconomic theory. Quantitative emphasis with extensive homework use of spreadsheets and written executive summaries of applied economic analyses. Applications on natural resources and agricultural markets. Enroll Info: None
Requisites: STAT 301, 371, ECON 310, SOC/C&G SOC 360, PSYCH 210, or (GEN BUS 306 and 307)
Course Designation: Breadth - Social Science
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Fall 2021

ECON 435 — THE FINANCIAL SYSTEM
3 credits.
Banking, credit markets and financial institutions, monetary and debt management policies; relation of national monetary and credit institutions to the international system. Enroll Info: None
Requisites: (ECON 301 or ECON 311) and (ECON 302 or ECON 312) and ECON 330
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Fall 2021

ECON 441 — ANALYTICAL PUBLIC FINANCE
3-4 credits.
Analyzes the problems of the public sector in dealing with domestic issues of education, urban areas, welfare, natural resources, and the environment; provides students with opportunity to apply the tools of economic analysis that are pertinent to domestic public sector problems. Enroll Info: None
Requisites: ECON 301 or 311
Course Designation: Breadth - Social Science
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Sustain - Sustainability
Repeatable for Credit: No
Last Taught: Fall 2021

ECON 442 — MACROECONOMIC POLICY
3-4 credits.
Addresses current issues in modern macroeconomic policymaking. Topics include: fiscal and monetary policy, financial and sovereign debt crisis, and financial regulation. Enroll Info: None
Requisites: (ECON 301 or 311), (ECON 302 or 312), and ECON 310; or graduate/professional standing
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2020

ECON 448 — HUMAN RESOURCES AND ECONOMIC GROWTH
3-4 credits.
Theoretical and empirical analysis of public and private investment in people, emphasizing the contribution to productivity of education, training, health, and mobility. Enroll Info: None
Requisites: ECON 301 or 311
Course Designation: Breadth - Social Science
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Fall 2016

ECON/ENVIR ST/POLI SCI/URB R PL 449 — GOVERNMENT AND NATURAL RESOURCES
3-4 credits.
Problems of public policy and administration for development and use of natural resources. Enroll Info: None
Requisites: Junior standing
Course Designation: Breadth - Social Science
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Sustain - Sustainability
Repeatable for Credit: No
Last Taught: Summer 2019

ECON 450 — WAGES AND THE LABOR MARKET
3-4 credits.
Economic and institutional forces which determine labor supply and demand; wage theories, wages in the economy, the labor force, unemployment, wages, labor mobility, functioning of labor markets. Enroll Info: None
Requisites: ECON 301 or 311
Course Designation: Breadth - Social Science
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Spring 2021

ECON 451 — THE ECONOMIC APPROACH TO HUMAN BEHAVIOR
3 credits.
The economic analysis of "non-economic" topics such as the family, crime, politics and religion. Enroll Info: None
Requisites: ECON 301 or 311
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Spring 2016
ECON 455 — BEHAVIORAL ECONOMICS
3-4 credits.

Empirical evidence documenting departures in human decision making from rational norms, and alternative theoretical approaches to explaining this behavior grounded based upon psychological enrichments of standard rational actor model. Topics include paradox of choice, loss aversion, time inconsistent preferences, and social preferences. Enroll Info: None
Requisites: (ECON 301 or 311) and ECON 310; or graduate/professional standing
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2021

ECON 458 — INDUSTRIAL STRUCTURE AND COMPETITIVE STRATEGY
3 credits.

Analysis of competition among firms and its effect on industrial structure. Theoretical models and case studies are used. Topics include: entry barriers, price competition dynamics, entry and exit strategies, and competitive tactics such as product differentiation, advertising, and technological change. Enroll Info: None
Requisites: ECON 301 or 311
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Spring 2021

ECON 460 — ECONOMIC FORECASTING
3-4 credits.

Introduction to econometric time series analysis, forecasting methods, and forecast evaluation. Covers theoretical, methodological, and applied topics, and much of the work will be hands-on data analysis. Enroll Info: None
Requisites: ECON 400, 410, or graduate/professional standing
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2021

ECON 461 — INTERNATIONAL MACROECONOMICS
3-4 credits.

International macroeconomics, focusing on the international exchange of financial instruments - currencies, bonds, equities, derivatives, and more - and how decisions and policies made in one country spill over into other markets. Enroll Info: None
Requisites: ECON 302 or 312
Course Designation: Breadth - Social Science
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Fall 2021

ECON 464 — INTERNATIONAL TRADE
3-4 credits.

Contemporary theory of International Trade, focusing on why nations trade and what do they trade, and in what sense international trade is beneficial to trading countries. Current policy issues will be examined to demonstrate the usefulness as well as the limitations of the theory. Enroll Info: None
Requisites: ECON 301 or 311. Not open to students with credit for ECON 364.
Course Designation: Breadth - Social Science
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Fall 2021

ECON 465 — THE AMERICAN ECONOMY TO 1865
3-4 credits.

Survey of the forces underlying American economic development and the distribution of income; rise of regional economies; origins of manufacturing; effects of slavery; influence of government and politics on growth. Enroll Info: None
Requisites: ECON 101 or 111
Course Designation: Breadth - Social Science
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Fall 2019

ECON/HISTORY 466 — THE AMERICAN ECONOMY SINCE 1865
3-4 credits.

Emergence of the large corporation; growth and instability since the mid-nineteenth century; increasing government participation in the economy; the impact of war, depression, discrimination, and international responsibilities. Enroll Info: None
Requisites: ECON 101 or 111
Course Designation: Breadth - Social Science
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Spring 2021
### ECON 467 — INTERNATIONAL INDUSTRIAL ORGANIZATIONS
3-4 credits.

Focuses on the behavior of international firms and the public policies that affect them. Study theoretical models of strategic competition, evaluate the effects of government policies, review aggregate empirical evidence and learn from case studies. Enroll Info: None  
**Requisites:** ECON 301 or 311  
**Course Designation:** Breadth - Social Science  
L&S Credit - Counts as Liberal Arts and Science credit in L&S  
**Repeatable for Credit:** No  
**Last Taught:** Fall 2021

### ECON 468 — INDUSTRIAL ORGANIZATION AND IMPERFECT COMPETITION
3-4 credits.

An overview of the theory of industrial organization, including the study of oligopolistic behavior, monopolistic competition, product differentiation and the dynamic behavior of competitive industries under uncertainty.  
Enroll Info: None  
**Requisites:** (ECON 301 or 311) and (MATH 217, 221, or 275)  
**Course Designation:** Level - Advanced  
L&S Credit - Counts as Liberal Arts and Science credit in L&S  
**Repeatable for Credit:** No  
**Last Taught:** Fall 2021

### ECON/A A E 473 — ECONOMIC GROWTH AND DEVELOPMENT IN SOUTHEAST ASIA
3 credits.

Evaluates economic development strategies in Southeast Asia and their implications for growth, distribution and environment. Students learn trade and development theory as well as specific knowledge of Southeast Asian economic development.  
Enroll Info: None  
**Requisites:** A A E 215, ECON 101, or 111, or graduate/professional standing  
**Course Designation:** Level - Intermediate  
L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement  
**Repeatable for Credit:** No  
**Last Taught:** Fall 2021

### ECON/A A E 474 — ECONOMIC PROBLEMS OF DEVELOPING AREAS
3 credits.

Analyzes aggregate growth, income distribution and poverty in lower income economies. Uses microeconomics of imperfect labor, capital and insurance markets to explore why some individuals advance economically as their economies grow and others fall behind. Considers implications of aggregate and micro analysis for national and international economic policy.  
Enroll Info: None  
**Requisites:** A A E 215, ECON 101, or 111  
**Course Designation:** Breadth - Social Science  
Level - Intermediate  
L&S Credit - Counts as Liberal Arts and Science credit in L&S  
**Repeatable for Credit:** No  
**Last Taught:** Summer 2021

### ECON 475 — ECONOMICS OF GROWTH
3-4 credits.

Theoretical analysis of issues in growth and development. Models will be motivated by country experiences. Topics include: factors affecting saving, investment and cross-country differentials on per capita income; the role of government institutions, market regulation, technology and trade.  
Enroll Info: None  
**Requisites:** (ECON 301 or ECON 311), (ECON 302 or ECON 312) and (MATH 217, 221, 275), or graduate/professional standing  
**Course Designation:** Breadth - Social Science  
Level - Advanced  
L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement  
Sustain - Sustainability  
**Repeatable for Credit:** No  
**Last Taught:** Fall 2021

### ECON/A A E 477 — AGRICULTURAL AND ECONOMIC DEVELOPMENT IN AFRICA
3 credits.

Composition, organization, and techniques of agricultural production; economic change and development of agriculture, economic policies, special problems of developing African agriculture.  
Enroll Info: None  
**Requisites:** A A E 215, ECON 101, or 111, or graduate/professional standing  
**Course Designation:** Breadth - Social Science  
Level - Intermediate  
L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Grad 50% - Counts toward 50% graduate coursework requirement  
Sustain - Sustainability  
**Repeatable for Credit:** No  
**Last Taught:** Fall 2019

### ECON 502 — ECONOMICS OF TRANSPORTATION
3 credits.

Influence of transport costs on economic development, industrial location and market penetration; economic characteristics of carriers; pricing policies and practices in transport; interrelationship of public policy issues and decisions by suppliers and users of transportation.  
Enroll Info: None  
**Requisites:** ECON 101, 111, or A A E 215  
**Course Designation:** Breadth - Social Science  
Level - Advanced  
L&S Credit - Counts as Liberal Arts and Science credit in L&S  
Sustain - Sustainability  
**Repeatable for Credit:** No  
**Last Taught:** Fall 2013
ECON/PHILOS 524 — PHILOSOPHY AND ECONOMICS
3 credits.
Economics examined from the viewpoint of the philosophy of science. Normative and positive aspects of economic theory. Deterministic and statistical explanation. Arrow impossibility theorem. Radical economics. Enroll Info: None
Requisites: Sophomore standing and 3 credits of PHILOS or ECON
Course Designation: Breadth - Social Science
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Fall 2018

ECON 525 — ECONOMICS OF EDUCATION: THEORY AND MEASUREMENT
3 credits.
Application of theoretical and empirical methods of economics to education policy. Emphasis in econometrics analysis and critical evaluation of empirical research. Writing intensive course. Enroll Info: None
Requisites: (ECON 301 or 311) and ECON 410 or concurrent enrollment; or graduate/professional standing
Course Designation: Breadth - Social Science
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2014

ECON/A A E 526 — QUANTITATIVE METHODS IN AGRICULTURAL AND APPLIED ECONOMICS
4 credits.
Use of quantitative methods (mathematics, statistics, and optimization) to analyze problems faced by decision makers in natural resources and agriculture. Extensive homework requiring use of quantitative methods via spreadsheet tools to solve problems from an applied decision context. Enroll Info: None
Requisites: (MATH 211 or 221), ECON 301, and STAT 301, or graduate/professional standing
Course Designation: Breadth - Social Science
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2021

ECON/R M I 530 — INSURING LIFE'S RISKS: HEALTH, AGING, AND POLICY
3 credits.
Covers risks related to health and aging, rationales for social insurance programs to protect against these risks, and costs and benefits of these programs. Broad topics include health insurance, disability insurance, and Social Security and pension policy. Enroll Info: None
Requisites: (ECON 301 or 311) and ECON 310; or graduate/professional standing
Course Designation: Breadth - Social Science
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Fall 2021

ECON/PHILOS 524 — PHILOSOPHY AND ECONOMICS
3 credits.
Economics examined from the viewpoint of the philosophy of science. Normative and positive aspects of economic theory. Deterministic and statistical explanation. Arrow impossibility theorem. Radical economics. Enroll Info: None
Requisites: Sophomore standing and 3 credits of PHILOS or ECON
Course Designation: Breadth - Social Science
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Fall 2018

ECON 525 — ECONOMICS OF EDUCATION: THEORY AND MEASUREMENT
3 credits.
Application of theoretical and empirical methods of economics to education policy. Emphasis in econometrics analysis and critical evaluation of empirical research. Writing intensive course. Enroll Info: None
Requisites: (ECON 301 or 311) and ECON 410 or concurrent enrollment; or graduate/professional standing
Course Designation: Breadth - Social Science
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2014

ECON/A A E 526 — QUANTITATIVE METHODS IN AGRICULTURAL AND APPLIED ECONOMICS
4 credits.
Use of quantitative methods (mathematics, statistics, and optimization) to analyze problems faced by decision makers in natural resources and agriculture. Extensive homework requiring use of quantitative methods via spreadsheet tools to solve problems from an applied decision context. Enroll Info: None
Requisites: (MATH 211 or 221), ECON 301, and STAT 301, or graduate/professional standing
Course Designation: Breadth - Social Science
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2021

ECON/R M I 530 — INSURING LIFE'S RISKS: HEALTH, AGING, AND POLICY
3 credits.
Covers risks related to health and aging, rationales for social insurance programs to protect against these risks, and costs and benefits of these programs. Broad topics include health insurance, disability insurance, and Social Security and pension policy. Enroll Info: None
Requisites: (ECON 301 or 311) and ECON 310; or graduate/professional standing
Course Designation: Breadth - Social Science
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Fall 2021
ECON/A A E/F&W ECOL 531 — NATURAL RESOURCE ECONOMICS
3 credits.
Economic concepts and tools relating to management and use of natural resources, including pricing principles, cost-benefit analysis, equity, externalities, economic rent, renewable and nonrenewable resources, and resource policy issues. Enroll Info: None
Requisites: ECON 301 or 311 or graduate/professional standing
Course Designation: Breadth - Social Science
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Sustain - Sustainability
Repeatable for Credit: No
Last Taught: Spring 2021

ECON/POP HLTH/PUB AFFR 548 — THE ECONOMICS OF HEALTH CARE
3-4 credits.
Analysis of the health care industry. Markets for hospitals and physicians' care, markets for health manpower, and the role of health insurance. Enroll Info: None
Requisites: ECON 301, ECON 311, or PUB AFFR 880
Course Designation: Breadth - Social Science
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Sustain - Sustainability
Repeatable for Credit: No
Last Taught: Fall 2021

ECON 570 — FUNDAMENTALS OF DATA ANALYTICS FOR ECONOMISTS
3-4 credits.
Introduction to the data that underlies quantitative economic analysis. Learn how to formulate a research question, access economic data sources, conduct preliminary and formal analysis, and report findings in a professional manner. Enroll Info: None
Requisites: [ECON 310, (STAT 240 and 340), or (STAT 303 and 333), and (ECON 301 or 311)]
Course Designation: Breadth - Social Science
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2021

ECON 580 — HONORS TUTORIAL IN RESEARCH PROJECT DESIGN
3 credits.
Students will be required to criticize research by others, to draft a research proposal and to complete a project that requires original research. Enroll Info: None
Requisites: (ECON 301 or 311), (ECON 302 or 312), and ECON 410
Course Designation: Gen Ed - Communication Part B
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Honors - Accelerated Honors (!)
Repeatable for Credit: No
Last Taught: Spring 2021

ECON 581 — HONORS THESIS
3 credits.
Students will work on their honor thesis. Enroll Info: None
Requisites: Consent of instructor
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Honors - Accelerated Honors (!)
Repeatable for Credit: No
Last Taught: Fall 2021

ECON 606 — MATHEMATICAL ECONOMICS II
3-4 credits.
Advanced mathematical topics and techniques used in economic analysis. Deterministic and Stochastic Control Theory emphasized. Enroll Info: None
Requisites: (MATH 234 or 375) and (MATH 320 or 340); or graduate/professional standing.
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2013

ECON 621 — MARKETS AND MODELS
3-4 credits.
An investigation into the various ways that markets determine the allocation of scarce resources: via a single market-clearing price, waiting in line or other forms of rationing, search, a centralized matching algorithm, an auction, or a contest. We will examine real-world examples of each type of market, and introduce and solve a formal theoretical model of each to see what insights it leads to. Enroll Info: None
Requisites: (ECON 301 or 311) and (MATH 217, 221, or 275), or graduate/professional standing
Course Designation: Breadth - Social Science
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2021

ECON 623 — POPULATION ECONOMICS
3-4 credits.
Examination of economic determinants of population change and demographic behavior including household formation, marriage, child bearing and rearing, mortality (especially infant) and key forms of human capital investments including schooling and migration. Enroll Info: None
Requisites: (ECON 301 or 311) and ECON 310; or graduate/professional standing
Course Designation: Breadth - Social Science
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Sustain - Sustainability
Repeatable for Credit: No
Last Taught: Spring 2021

ECON 627 — ECONOMIC GROWTH
3 credits.
An introduction to the theory of economic growth and its empirical applications. Recent empirical work will be considered. Enroll Info: None
Requisites: (ECON 301 or 311) and (ECON 302 or 312)
Course Designation: Breadth - Social Science
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2021
ECON/REAL EST/URB R PL  641 — HOUSING ECONOMICS AND POLICY
3 credits.

The economic principles underlying the dynamics of the housing market; filtering, neighborhood decline and abandonment gentrification, tenure choice, mortgage choice, prepayment, mobility, mortgage default, submarket identification, racial discrimination and segregation. Examination of governmental programs affecting the housing market and their objectives and impacts; public and subsidized housing, zoning and land use regulation, rent and price controls, property and income tax policy. Enroll Info: None
Requisites: URB R PL/ECON/REAL EST  420 or concurrent enrollment
Course Designation: Breadth - Social Science
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Fall 2014

ECON 661 — ISSUES IN INTERNATIONAL MACROECONOMICS
3-4 credits.

Examines the macroeconomics of open economies (countries that can trade goods and assets with other countries). Takes a systematic approach to building and examining macroeconomic models of the open economy; to try to understand the determination of output and employment, trade balance, capital flows, the foreign currency exchange rate, international prices, and the role of uncertainty and asset choice. Enroll Info: None
Requisites: (ECON 302 or 312), ECON 310, and (MATH 217 or 221), or graduate/professional standing
Course Designation: Breadth - Social Science
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2021

ECON/SOC  663 — POPULATION AND SOCIETY
3 credits.

Social and economic determinants and consequences of contemporary and historical population trends in both developed and developing societies. Fertility, mortality, migration, population distribution, age structure, population growth. Enroll Info: None
Requisites: SOC 170, CE 357, POP HLTH 380, ECON 101, 111, or A A E 215; or graduate/professional standing
Course Designation: Breadth - Social Science
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Sustain - Sustainability
Repeatable for Credit: No
Last Taught: Spring 2018

ECON 664 — ISSUES IN INTERNATIONAL TRADE
3-4 credits.

Covers advanced topics in international trade and investment, including foreign direct investment, dynamic models of trade, and models of firm-level heterogeneity. Enroll Info: None
Requisites: ECON 464, 310, and (MATH 217 or 221); or graduate/professional standing
Course Designation: Breadth - Social Science
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No

ECON 666 — ISSUES IN INTERNATIONAL FINANCE
3-4 credits.

Modern institutions, history, and controversies of international financial relations. Foreign exchange market, the Euro-currency banking system, and central bank intervention in both. Enroll Info: None
Requisites: (ECON 301 or 311), (ECON 302 or 312), (ECON 310, STAT 302, or 311), and (MATH 221 or 275); or graduate/professional standing
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2019

ECON/A A E/ENVIR ST/URB R PL  671 — ENERGY ECONOMICS
3 credits.

The method, application, and limitations of traditional economic approaches to the study of energy problems. Topics include microeconomic foundations of energy demand and supply; optimal pricing and allocation of energy resources; energy market structure, conduct, and performance; macro linkages of energy and the economy; and the economics of regulatory and other public policy approaches to the social control of energy. Enroll Info: None
Requisites: Graduate/professional standing or (senior standing and A A E 215, ECON 101, or 111)
Course Designation: Breadth - Social Science
Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Grad 50% - Counts toward 50% graduate coursework requirement
Sustain - Sustainability
Repeatable for Credit: No
Last Taught: Spring 2020

ECON 681 — SENIOR HONORS THESIS
3 credits.

Faculty guided honors level original research. Enroll Info: None
Requisites: Consent of instructor
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Honors - Honors Only Courses (H)
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2021
ECON 682 — SENIOR HONORS THESIS
3 credits.
Faculty guided honors level original research. Enroll Info: None
Requisites: Consent of instructor
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S Honors - Honors Only Courses (H)
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2021

ECON 690 — TOPICS IN ECONOMICS
2-4 credits.
Topics in economic theory and policy. Enroll Info: None
Requisites: ECON 301 or 311 or graduate/professional standing
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2021

ECON 691 — SENIOR THESIS
1-3 credits.
Faculty guided original research. Enroll Info: None
Requisites: Consent of instructor
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2019

ECON 692 — SENIOR THESIS
1-3 credits.
Faculty guided original research. Enroll Info: None
Requisites: Consent of instructor
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2020

ECON 695 — TOPICS IN ECONOMIC DATA ANALYSIS
3-4 credits.
Various advanced topics on the use of data to answer important economic questions. Enroll Info: None
Requisites: ECON 310, (STAT 240 and 340), or (STAT 303 and 333)
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2021

ECON 698 — DIRECTED STUDY
1-4 credits.
Study of topics or research at an advanced undergraduate as arranged with a faculty member. Enroll Info: None
Requisites: Consent of instructor
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S
Repeatable for Credit: No
Last Taught: Spring 2021

ECON 699 — DIRECTED STUDY
1-4 credits.
Study of topics or research at an advanced undergraduate as arranged with a faculty member. Enroll Info: None
Requisites: Consent of instructor
Course Designation: Level - Advanced
L&S Credit - Counts as Liberal Arts and Science credit in L&S Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2021

ECON 700 — MATHEMATICS FOR ECONOMISTS
3 credits.
Mathematical techniques used in economics analysis at a Master level. Topics include: proof techniques, optimization, introductory topology, functional analysis, linear algebra for microeconomists and differential equations. Enroll Info: It is expected that students will have completed three semesters calculus (such as MATH 234) and linear algebra (such as MATH 340).
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2021

ECON 701 — MICROECONOMICS I
3 credits.
First course in a two-semester sequence covering: consumer theory, producer theory, and markets under partial and general equilibrium, and with externalities or market power. The sequence will include an introduction to decision theory and game theory, and applications to auction theory and partially informed trade. Enroll Info: It is expected that students will have completed three semesters calculus (such as MATH 234) and linear algebra (such as MATH 340).
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2021

ECON 702 — MACROECONOMICS I
3 credits.
A mathematical approach to the study of aggregate output determination, including analysis of consumption, labor markets, economic growth, and business cycles. Analysis of fiscal and monetary policies and their interactions. Enroll Info: It is expected that students will have completed three semesters calculus (such as MATH 234) and linear algebra (such as MATH 340).
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2021
ECON 703 — MATHEMATICAL ECONOMICS I
3-4 credits.
A survey of mathematical techniques used in economic analysis. Linear algebra and optimization techniques are emphasized. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2021

ECON 704 — ECONOMETRICS I
3 credits.
Econometric methods, theory, and applications. Matrix algebra will be used. Topics include linear regression, least-squares estimation, inference, and hypothesis testing. Enroll Info: Primarily for Master’s level students. It is expected that students will have completed three semesters calculus (such as MATH 234) and linear algebra (such as MATH 340).
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2021

ECON 705 — ECONOMETRICS II
3 credits.
Econometric methods, theory, and applications. Topics include instrumental variables, GMM, panel data, limited dependent variables, time series, and vector autoregressions. Enroll Info: None
Requisites: ECON 704
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2021

ECON 706 — ECONOMETRICS III
3 credits.
Focus on using econometric methods to address empirical questions, conduct empirical research, and write empirical papers in economics. Enroll Info: None
Requisites: ECON 705
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2021

ECON 708 — MICROECONOMICS II
3 credits.
Second course in a two-semester sequence covering: consumer theory, producer theory, and markets under partial and general equilibrium, and with externalities or market power. The sequence will include an introduction to decision theory and game theory, and applications to auction theory and partially informed trade. Enroll Info: None
Requisites: ECON 701
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2021

ECON 709 — ECONOMIC STATISTICS AND ECONOMETRICS I
3-4 credits.
Probability distributions, statistical inference; multiple linear regression; introduction to econometric methods. Enroll Info: It is expected that students will have completed three semesters calculus (such as MATH 234) and linear algebra (such as MATH 340).
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2021

ECON 710 — ECONOMIC STATISTICS AND ECONOMETRICS II
3-4 credits.
Extensions of the linear regression model; introduction to multiple equation models. Enroll Info: None
Requisites: ECON 709
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2021

ECON 711 — ECONOMIC THEORY-MICROECONOMICS SEQUENCE
3 credits.
First course in a two-semester sequence: theories of firms, consumers, and markets; or partial and general equilibria in market and centralized economies; topics in welfare economics. Enroll Info: It is expected that students will have completed three semesters calculus (such as MATH 234) and linear algebra (such as MATH 340).
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2021

ECON 712 — ECONOMIC THEORY-MACROECONOMICS SEQUENCE
3 credits.
First course in a two semester sequence: commodity, money and labor markets, their components and general equilibrium; intertemporal optimization and growth theory. Enroll Info: It is expected that students will have completed three semesters calculus (such as MATH 234) and linear algebra (such as MATH 340).
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2021
ECON 713 — ECONOMIC THEORY: MICROECONOMICS SEQUENCE
3 credits.
Second course in a two-semester sequence: the theory of market, their efficiency properties, externalities, and the role of prices, and an introduction to the economics of information, including moral hazard and adverse selection. Enroll Info: None
Requisites: ECON 711
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2021

ECON 714 — ECONOMIC THEORY; MACROECONOMICS SEQUENCE
3 credits.
Second course in a two-semester sequence. Topics include: asset pricing; fiscal and monetary policy; mechanism design, estimation and calibration of business cycle models. Enroll Info: None
Requisites: ECON 712
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2021

ECON 715 — ECONOMETRIC METHODS
3 credits.
Nonlinear econometric theory. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2021

ECON 716 — ECONOMETRIC METHODS
3 credits.
Advanced econometric theory. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2021

ECON 717 — APPLIED ECONOMETRICS
3 credits.
Applied cross section and panel methods. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2021

ECON 718 — TOPICS IN APPLIED ECONOMETRICS
3 credits.
Applied time series methods. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2019

ECON 719 — ECONOMIC STATISTICS AND ECONOMETRICS III
3-4 credits.
Advanced applied econometrics. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2016

ECON 721 — FINANCIAL MICROECONOMICS
3 credits.
The contemporary theory of financial markets, portfolio choice, and asset pricing. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No

ECON 724 — FINANCIAL ECONOMETRICS
3 credits.
Introduction to econometric analysis of financial time series. Covers linear econometric time series models, multivariate time series, volatility estimation, and estimating and testing financial econometric models. Enroll Info: None
Requisites: ECON 704
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No

ECON 725 — MACHINE LEARNING FOR ECONOMISTS
3 credits.
Introduction to the use of Machine Learning (ML) in economic analysis. Covers basic techniques of ML, much attention will be devoted to evaluating the use of these tools in economics. Learn how economists are integrating the tools of ML with econometric techniques in current empirical research. Gain hands on experience in using these techniques to answer traditional questions of interest to economists. Topics include (i) an in-depth discussion of the differences and similarities in goals, empirical settings and tools between ML and econometrics, (ii) supervised learning methods for regression and classification, unsupervised learning methods, large data analysis and data mining, (iii) recent methods at the intersection of ML and econometrics, designed for causal inference, optimal policy estimation, estimation of counterfactual effects. The methods are taught with an emphasis on practical application. Enroll Info: None
Requisites: Declared in an Economics graduate program
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2021
ECON 730 — INTERNATIONAL FINANCIAL ECONOMICS
3 credits.

Examines the economics of international financial markets, and how international considerations affect financial economic models. It provides an introduction to foreign exchange markets and risk; it investigates international parity conditions and foreign exchange rate determination; it studies international capital markets; it looks at the basics of international corporate finance; and, it discusses foreign currency derivatives. Enroll Info: None

Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2021

ECON/PUB AFFR/URB R PL 734 — REGIONAL ECONOMIC PROBLEM ANALYSIS
3 credits.

Examination of major theories of regional economic development, with special emphasis upon the evolution and amelioration of regional economic problems. Selected techniques of regional analysis, including economic base multipliers, input/output models, and shift-share analysis are used in the context of setting regional development goals. Enroll Info: None

Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2021

ECON 735 — MONETARY AND FINANCIAL THEORY
3 credits.

Advanced appraisal of theory and institutions of the financial system, monetary theory, the credit system and financial intermediaries. Enroll Info: None

Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2021

ECON 736 — MACROECONOMIC POLICY
3 credits.

Theoretical, empirical, and institutional aspects of the use of monetary, fiscal, and income policies to affect inflation, unemployment, and other policy goals. Enroll Info: None

Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2021

ECON 741 — THEORY OF PUBLIC FINANCE AND FISCAL POLICY
3 credits.

Theoretical development of the functions of government in a mixed economy; welfare criteria for efficient government expenditures and taxation; nature of public goods and of redistribution activities of governments. Program budgeting and theoretical issues in cost-benefit analysis. Enroll Info: None

Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2021

ECON/A E 747 — FRONTIERS IN AGRICULTURAL ECONOMICS 2
3 credits.

Organization, design, and performance of food and agricultural markets. Industrial organization; firm boundaries, contracting, and collective action; spatial, temporal, and quality dimensions of market design. Enroll Info: None

Requisites: ECON 709 and 711
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Sustain - Sustainability
Repeatable for Credit: No
Last Taught: Fall 2021

ECON 750 — LABOR ECONOMICS
3 credits.

Theoretical and empirical analysis of labor markets, labor mobility, the determination of earnings and employment, and labor supply of the household unit; emphasizes recent research on current issues in public policy. Enroll Info: None

Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2021
ECON 751 — SURVEY OF INSTITUTIONAL ASPECTS OF LABOR ECONOMICS
3 credits.
Taught on a modular basis: Labor Theories and Labor History; Union Political Activities; Collective Bargaining and Public Policy. For use in analysis of problems in areas of labor markets, wages and human resources. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2021

ECON 761 — INDUSTRIAL ORGANIZATION THEORY
3 credits.
A review of theories of the firm, oligopoly, and imperfect competition. Includes applications of economic theory and game theory to agency theory, product diversity, technological change, and strategic behavior by firms—among other problems. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2021

ECON 762 — EMPIRICAL ANALYSIS OF INDUSTRIAL ORGANIZATION AND PUBLIC POLICY
3 credits.
A study of measurement in industrial organization and a survey of empirical tests of hypotheses in the field. The theory and practice of antitrust is also covered. Each student will produce an original piece of research. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2021

ECON 770 — DATA ANALYTICS FOR ECONOMISTS
3 credits.
Use core economic datasets such as the Panel Study on Income Dynamics, Consumer Expenditure Survey, National Income and Product Accounts, and the American Community Survey for quantitative economic research. Learn to clean and manipulate data to create datasets usable for economic research and to implement theory-based and atheoretic econometric models. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2021

ECON/GEN BUS/STAT 775 — INTRODUCTION TO BAYESIAN DECISION AND CONTROL I
3 credits.
Common sampling models in business and economic problems, information from data, likelihood function of parameters, choices of models, Bayes' Theorem, subjective basis for probability, sequential nature of Bayesian inference, prior and posterior distributions of parameters in binomial, poisson, exponential and normal populations, comparison of two normal distributions, predictive distributions, decision theory, utility, risk aversion, extensive form of analysis, two-action problems, point estimation, best population problems, economics of sampling. Enroll Info: None
Requisites: STAT 609 or STAT/MATH 709
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2021

ECON 805 — ADVANCED MICROECONOMIC THEORY I
3 credits.
Economic behavior under uncertainty; measure of risk, information structure, stock market and asset pricing, insurance theory, asymmetric information and incentive mechanisms. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2021

ECON 806 — ADVANCED MICROECONOMIC THEORY II
3 credits.
General equilibrium analysis existence and computation of fixed points and competitive equilibrium, regular economics, core, non-competitive approach to perfect competition and monopolistic competition. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2019

ECON 809 — TOPICS IN MICROECONOMIC THEORY
1-3 credits.
Topics in microeconomic theory. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2020

ECON 810 — ADVANCED MACROECONOMIC THEORY
3 credits.
Topics in macroeconomic research. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2020
ECON/URB R PL 845 — ADVANCED TOPICS IN PUBLIC FINANCE
1-4 credits.
Advanced public finance problems and literature, research; subject changes each semester; may be repeated. Modules. Enroll Info: None
Requisites: ECON 713 and 714
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2020

ECON/POP HLTH 848 — HEALTH ECONOMICS
1-3 credits.
Health economics issues including demand, supply and pricing, market structure, medical malpractice, technological change, value of life, role of insurance, and other aspects of uncertainty. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2020

ECON 871 — ADVANCED INTERNATIONAL ECONOMICS
3 credits.
General equilibrium algebraic and geometric modeling of open economies with balanced trade, and the welfare economics of international exchange and barriers thereto. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Fall 2021

ECON 872 — ADVANCED INTERNATIONAL ECONOMICS
3 credits.
Algebraic and geometric modeling of open macroeconomics with unbalanced trade and payments, focussing analytically on the foreign exchange market and the determinants of the exchange rate. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2021

ECON 873 — SEMINAR—INTERNATIONAL ECONOMICS
2-3 credits.
Individual research and group discussion of selected topics in the theory of international trade. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: No
Last Taught: Spring 2016

ECON 899 — RECENT ADVANCES IN ECONOMICS
1-3 credits.
Selections from all fields of economic research. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2021

ECON 901 — WORKSHOP IN MATHEMATICAL ECONOMIC THEORY
1-7 credits.
First in a two seminar sequence on critical discussion of topics in the field of economic theory. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2021

ECON 902 — WORKSHOP IN ECONOMIC THEORY
1-7 credits.
Critical discussion of topics in the field of economic theory. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2021

ECON 903 — WORKSHOP ON INDUSTRIAL ORGANIZATION
1-7 credits.
Current research on the operation of markets in which individuals and firms act with imperfect information, are limited in their responses, may purchase heterogeneous commodities or factor services, and are concerned with conflicting goals. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2021

ECON 904 — WORKSHOP ON INDUSTRIAL ORGANIZATION
1-7 credits.
Second in a two seminar sequence on current research on the operation of markets in which individuals and firms act with imperfect information, are limited in their responses, may purchase heterogeneous commodities or factor services, and are concerned with conflicting goals. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2021
ECON 913 — WORKSHOP IN ECONOMETRICS
1-7 credits.
Current research in econometric model building, estimation and inference in econometrics Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2021

ECON 914 — WORKSHOP IN ECONOMETRICS
1-7 credits.
Second in a two seminar sequence on current research in econometric model building, estimation and inference in econometrics. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2021

ECON/ANTHRO/C&E SOC/SOC 925 — SEMINAR: SOCIO-ECONOMIC CHANGE IN UNDERDEVELOPED AREAS
2-3 credits.
Social and economic factors relating to stability, growth, and change in the non-Western areas of the contemporary world. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2021

ECON 955 — WORKSHOP IN LABOR ECONOMICS
1-7 credits.
Analysis of current research in wage determination and the functioning of labor markets. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2021

ECON 956 — WORKSHOP IN LABOR ECONOMICS
1-7 credits.
Second in a two seminar sequence on the analysis of current research in wage determination and the functioning of labor markets. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2021

ECON/LAW 961 — SELECTED PROBLEMS IN TRADE REGULATION-SEMINAR
2-3 credits.
Topics reflect interests of instructor and students. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2017

ECON 965 — WORKSHOP ON QUANTITATIVE MACRO-ECONOMIC ANALYSIS
1-7 credits.
Current research on macroeconomic models, monetary theory and policy, the theory of portfolio selection, and the allocative and distributive performance of capital markets. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2021

ECON 966 — WORKSHOP ON QUANTITATIVE MACRO-ECONOMIC ANALYSIS
1-7 credits.
Second in a two seminar sequence on current research on macroeconomic models, monetary theory and policy, the theory of portfolio selection, and the allocative and distributive performance of capital markets. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2021

ECON 968 — WORKSHOP ON PUBLIC ECONOMICS
1-7 credits.
Individual research and group discussion of public expenditure programs with attention to investment in human capital, education, training, health information, and welfare programs. Reports on research in progress by students, staff, visiting scholars. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2021
ECON 969 — WORKSHOP ON PUBLIC ECONOMICS
1-7 credits.
Second in a two seminar sequence on individual research and group discussion of public expenditure programs with attention to investment in human capital, education, training, health information, and welfare programs. Reports on research in progress by students, staff, visiting scholars. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2021

ECON 977 — WORKSHOP IN INTERNATIONAL ECONOMICS
1-7 credits.
Current research in international trade; a wide range of topics in theory, quantitative analysis, statistics, and policy. For graduate students in their second or later years when working on theses. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2021

ECON 978 — WORKSHOP IN INTERNATIONAL ECONOMICS
1-7 credits.
Second in a two seminar sequence on the current research in international trade; a wide range of topics in theory, quantitative analysis, statistics, and policy. For graduate students in their second or later years when working on theses. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2021

ECON/AFRICAN/ANTHRO/GEOG/HISTORY/POLI SCI 983 — INTERDEPARTMENTAL SEMINAR IN AFRICAN STUDIES TOPICS
3 credits.
Interdisciplinary inquiry in African societies and cultures. Enroll Info: None
Requisites: Graduate/professional standing
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Spring 2021

ECON 990 — THESIS
2-9 credits.
Independent research and writing for graduate students under the supervision of a faculty member. Enroll Info: None
Requisites: Consent of instructor
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2021

ECON 999 — INDEPENDENT WORK
2-9 credits.
Directed study projects for graduate students as arranged with a faculty member. Enroll Info: None
Requisites: Consent of instructor
Course Designation: Grad 50% - Counts toward 50% graduate coursework requirement
Repeatable for Credit: Yes, unlimited number of completions
Last Taught: Fall 2021