

## Fall 2020 Course Descriptions as of 04/05/2020 08:11 PM

Information in Browse Course Catalog is subject to change. Information is term specific. Please refer to the appropriate term when searching for course content. Key to Course Descriptions may be found at: [http://rcs.registrar.arizona.edu/course\\_descriptions\\_key](http://rcs.registrar.arizona.edu/course_descriptions_key).

### Economics (ECON)

#### **ECON 150C1: An Economic Perspective** (3 units)

**Description:** The study of the interactions of individuals and societies from the viewpoint of economics. The Course examines a series of important social problems that lie on the intersections of economics and disciplines such as law, history, anthropology, political science, psychology, and so forth.

**Grading basis:** Regular Grades

**Career:** Undergraduate

<b>Course Components:</b>	Discussion	May Be Offered
	Lecture	Required

**Course typically offered:**

Main Campus: Fall, Spring

**Enrollment requirement:** Enrollment not allowed if you have previously taken INDV 103 "An Economic Perspective" (Topic 14).

**General Education:** INDV 103

#### **ECON 200: Basic Economic Issues** (3 units)

**Description:** National and international economic issues. An introduction to economic analysis.

**Grading basis:** Regular Grades

**Career:** Undergraduate

<b>Course Components:</b>	Lecture	Required
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**Course typically offered:**

Main Campus: Fall, Winter, Spring, Summer

Online Campus: Fall, Winter, Spring, Summer

**Recommendations and additional information:** Two courses from Tier One, Individuals and Societies (Catalog numbers 150A, 150B, 150C). Not available to students who have completed or are enrolled in ECON 201A, ECON 201B, or ECON 210.

**General Education:** Tier 2 Individuals & Societies

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 205: The Ethics and Economics of Wealth Creation** (3 units)

**Description:** We will study the ethics and the economics of such phenomena as market competition, institutions of private and public property, trade restrictions, globalization, and corporate welfare. How do people create wealth? How do societies enable people to create wealth? Are some ways more ethical than others? Why do some societies grow rich while neighboring societies remain poor? People have various ways of creating wealth. Which are ethical and which are not? Why? (PHIL 205 is not an introduction to the principles of Economics and is not a substitute for ECON 200, ECON 201A or ECON201B.)

**Grading basis:** Regular Grades

**Career:** Undergraduate

<b>Course Components:</b>	Discussion	May Be Offered
	Lecture	Required

**Equivalent to:** ECON 205

**Also offered as:** PA 205, PHIL 205, PPEL 205

**Course typically offered:**

Main Campus: Fall, Spring, Summer

Online Campus: Fall

**Recommendations and additional information:** 2 courses from Tier One - Individuals/Societies.

**Home department:** Philosophy

**General Education:** Tier 2 Individuals & Societies

**ECON 291: Preceptorship** (1 - 4 units)

**Description:** Specialized work on an individual basis, consisting of instruction and practice in actual service in a department, program, or discipline. Teaching formats may include seminars, in-depth studies, laboratory work and patient study.

**Grading basis:** Alternative Grading: S, P, F

**Career:** Undergraduate

<b>Course Components:</b>	Independent Study	Required
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**Course typically offered:**

Main Campus: Fall, Spring

**ECON 299: Independent Study** (2 - 4 units)

**Description:** Qualified students working on an individual basis with professors who have agreed to supervise such work.

**Grading basis:** Alternative Grading: S, P, F

**Career:** Undergraduate

<b>Course Components:</b>	Independent Study	Required
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**Repeatable:** Course can be repeated a maximum of 99 times.

**Course typically offered:**

Main Campus: Fall, Spring

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 299H: Honors Independent Study (1 - 3 units)**

**Description:** Qualified students working on an individual basis with professors who have agreed to supervise such work.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Independent Study Required

**Repeatable:** Course can be repeated a maximum of 99 times.

**Course typically offered:**

Main Campus: Fall, Spring

**Enrollment requirement:** Student must be active in the Honors College.

**Honors Course:** Honors Course

**Honors Course:** Honors Course

**ECON 300: Microeconomic Analysis for Business Decisions (3 units)**

**Description:** Examination of industrial structure; theory of prices under varying market conditions; applications to business problems.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Fall, Spring

Online Campus: Summer, Winter

**Recommendations and additional information:** If you have issues enrolling for Summer/Winter Sessions, please send your enrollment request to: econreg@eller.arizona.edu.

**Enrollment requirement:** Adv Stdg: Acct, Bus Mgmt, Fin, Mrkt, Gen Bus, MIS, Ops Mgmt, or Entr. ECON 200 or (ECON 201A and 201B).

**ECON 301: Microeconomic Analysis and Applications (3 units)**

**Description:** The objective of this course is to familiarize you with core microeconomic foundations that will allow you to understand how various economic forces and phenomena emerge, how alternative economic institutions function to allocate resources, how individuals and enterprises can best position themselves in various types of economic environments, and how government policy and external factors affect economic outcomes and welfare.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Spring

**Enrollment requirement:** ECON 200 or ECON 201A/B. Not available to ECON or BUS ECONO majors or to students who have enrolled in or completed ECON 300 or ECON 361.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 303: Economics of Crime** (3 units)

**Description:** An introduction to the study of crime and crime-control policies using standard economic techniques. In this course students will learn to use the Economist's tools to examine the following: The costs of crime and crime prevention; the behavior of criminals and potential criminals; the markets for crime and criminal behavior and the goods and services that are produced in them; organized crime and key crime issues; and public policies and the need for coordinating criminal justice system.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Fall, Spring

**Field trip:** None

**Enrollment requirement:** Major or minor: ECON or BNEC. ECON 200 or (ECON 201A and 201B) and BNAD 276, SBS 200 or equivalent.

**ECON 307: Economic History of the United States** (3 units)

**Description:** Economic history of the United States from the colonial era to the present and what affected the changes in the U.S. economy.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Fall, Spring

**Enrollment requirement:** Major or minor: ECON or BNEC. ECON 200 or (ECON 201A and 201B).

**ECON 308: World Economic History** (3 units)

**Description:** The purpose of the class is to provide students with a firm understanding of the historical development of the economies of different parts of the world and the economy of the world as a whole.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Fall

**Enrollment requirement:** Major or minor: ECON or BNEC. ECON 200 or (ECON 201A and 201B).

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-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

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**ECON 332: Intermediate Macroeconomics** (3 units)

**Description:** Analysis of output, employment, interest rates, and the price level; the effects of these on changes in monetary and fiscal variables.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Equivalent to: ECON 330**

**Course typically offered:**

Main Campus: Fall, Spring, Summer

**Recommendations and additional information:** If you have issues enrolling or intend to enroll in the prerequisite courses ECON 200 or 201A/B and either MATH 113, 116, 122A/B, or 125 during either Summer/Winter session, please send your enrollment request to: econreg@eller.arizona.edu.

**Enrollment requirement:** A major or minor in Economics (ECONBA) or Bus Econ (BNECBSBA). ECON 200 or (ECON 201A and 201B). AND MATH 113, or 116, or (MATH 122A and 122B), or 124, or 125 with a grade of C or better.

**ECON 338: Law and Economics (3 units)**

**Description:** This course uses economic analysis to analyze the basic common law areas of property, contract, tort, and criminal law. Economic tools are used both to understand the basic structure of the law, and to suggest how the law might be made more efficient. The course assesses whether individuals or collective action (courts) are better for addressing market failures. Transaction costs and litigation costs (among other things) are crucial to the assessment.

**Grading basis:** Regular Grades

**Career:** Undergraduate

<b>Course Components:</b>	Lecture	Required
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**Course typically offered:**

Main Campus: Fall, Spring

**Enrollment requirement:** Major or minor: ECON or BNEC. ECON 200 or (ECON 201A and 201B).

**-SA** represents a Student Abroad & Student Exchange offering

**-CC** represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.



**ECON 339: Economic Statistics** (3 units)

**Description:** Application and interpretation of statistical measures to problems in economics.

**Grading basis:** Student Option ABCDE/PF

**Career:** Undergraduate

**Course Components:** Lecture Required

**Equivalent to:** AEC 339, ECON 339

**Also offered as:** AREC 339

**Course typically offered:**

Main Campus: Fall, Summer

**Recommendations and additional information:** Credit allowed for only one of these courses: AREC 339, ECON 376, MAP 376, MKTG 376.

**Home department:** Agricultural & Resource Economics

**Enrollment requirement:** Junior or Senior status. (ECON 200 or ECON 201A) and (MATH 113 or MATH 116 or MATH 122B or MATH 124 or MATH 125).

**ECON 340: International Economics and Policy** (3 units)

**Description:** Normative and positive aspects of international trade and international monetary economics, with attention drawn to government policy as it relates to international commercial relations. Not available to students who are enrolled in or have completed ECON 442 or ECON 443.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Fall, Spring

**Recommendations and additional information:** If you have issues enrolling or intend to enroll in the prerequisite courses ECON 200 or 201A/B for Summer/Winter Sessions, please send your enrollment request to: econreg@eller.arizona.edu.

**Enrollment requirement:** Major or minor: ECON or BNEC. ECON 200 or (ECON 201A and 201B).

**ECON 342: Economics of Latin America** (3 units)

**Description:** Analysis of the structure and development of Latin American economics.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Fall, Spring, Summer

**Recommendations and additional information:** If you have issues enrolling or intend to enroll in the prerequisite courses ECON 200 or 201A/B during either Summer/Winter session, please send your enrollment request to: econreg@eller.arizona.edu.

**Enrollment requirement:** Major or minor: ECON or BNEC. ECON 200 or (ECON 201A and 201B).

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**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.



**ECON 361: Intermediate Microeconomics** (3 units)

**Description:** Determination of prices and quantities in product and factor markets. If you have dropped ECON 361 with a W, contact econreg@eller.arizona.edu and repeatability will be reviewed on a case by case basis.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Fall, Spring, Summer

**Recommendations and additional information:** If you have issues enrolling or intend to enroll in the prerequisite courses ECON 200 or 201A/B and either MATH 113, 116, 122A/B, or 125 during either Summer/Winter session, please send your enrollment request to: econreg@eller.arizona.edu.

**Enrollment requirement:** A major or minor in Economics (ECONBA) or Bus Econ (BNECBSBA). ECON 200 or (ECON 201A and 201B). AND a grade of C or better in MATH 113, or 116, or (MATH 122A and 122B), or 124, or 125.

**ECON 370: China's Economic Development** (3 units)

**Description:** The purpose of the class is to provide students with a firm understanding of the transformation that has taken place in the economy of China during the past several decades.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Fall, Winter, Spring, Summer

**Recommendations and additional information:** ECON 200 or ECON 201A/B.

**Enrollment requirement:** Major or minor: ECON or BNEC. ECON 200 or (ECON 201A and 201B).

**ECON 371: Economic Development** (3 units)

**Description:** Analysis of the economic development process of newly developing nations.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Fall, Spring

**Recommendations and additional information:** If you have issues enrolling or or intend to enroll in the prerequisite courses ECON 200 or 201A/B during either Summer/Winter session, please send your enrollment request to: econreg@eller.arizona.edu.

**Enrollment requirement:** Major or minor: ECON or BNEC. ECON 200 or (ECON 201A and 201B).

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**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 373: Environmental Economics** (3 units)

**Description:** Analysis of current environmental problems and their potential solutions.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Also offered as:** AREC 373

**Course typically offered:**

Main Campus: Fall, Winter, Spring, Summer

**Recommendations and additional information:** If you have issues enrolling or intend to enroll in the prerequisite courses ECON 200 or 201A/B during either Summer/Winter session, please send your enrollment request to: econreg@eller.arizona.edu.

**Enrollment requirement:** Major or minor: ECON or BNEC. ECON 200 or (ECON 201A and 201B).

**ECON 382: Labor and Public Policy** (3 units)

**Description:** Economic and legal analysis of the issues and problems arising out of executive, legislative, and judicial efforts to define the rights, duties, and responsibilities of labor and management in the field of industrial relations.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Equivalent to:** MAP 382

**Course typically offered:**

Main Campus: Fall, Spring

**Recommendations and additional information:** If you have issues enrolling or intend to enroll in the prerequisite courses ECON 200 or 201A/B during either Summer/Winter session, please send your enrollment request to: econreg@eller.arizona.edu.

**Enrollment requirement:** Major or minor: ECON or BNEC. ECON 200 or (ECON 201A and 201B).

**ECON 391: Preceptorship** (1 - 3 units)

**Description:** Specialized work on an individual basis, consisting of instruction and practice in actual service in a department, program, or discipline. Teaching formats may include seminars, in-depth studies, laboratory work and patient study.

**Grading basis:** Alternative Grading: S, P, F

**Career:** Undergraduate

**Course Components:** Independent Study Required

**Repeatable:** Course can be repeated a maximum of 99 times.

**Course typically offered:**

Main Campus: Fall, Spring

**Enrollment requirement:** Major: Economics (ECONBA) or Business Economics (BNECBSBA).

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 396H: Honors Proseminar (3 units)**

**Description:** The development and exchange of scholarly information, usually in a small group setting. The scope of work shall consist of research by course registrants, with the exchange of the results of such research through discussion, reports, and/or papers.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Seminar Required

**Course typically offered:**

Main Campus: Fall, Spring

**Enrollment requirement:** Adv Stdg: Economics. Honors active.

**Honors Course:** Honors Course

**Honors Course:** Honors Course

**ECON 399: Independent Study (1 - 3 units)**

**Description:** Qualified students working on an individual basis with professors who have agreed to supervise such work.

**Grading basis:** Alternative Grading: S, P, F

**Career:** Undergraduate

**Course Components:** Independent Study Required

**Repeatable:** Course can be repeated a maximum of 99 times.

**Course typically offered:**

Main Campus: Fall, Spring

**Enrollment requirement:** Major: Economics (ECONBA) or Business Economics (BNECBSBA).

**ECON 399H: Honors Independent Study (1 - 3 units)**

**Description:** Qualified students working on an individual basis with professors who have agreed to supervise such work.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Independent Study Required

**Repeatable:** Course can be repeated a maximum of 99 times.

**Course typically offered:**

Main Campus: Fall, Spring

**Enrollment requirement:** Adv Stdg: Economics. Honors active.

**Honors Course:** Honors Course

**Honors Course:** Honors Course

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 400: Economic Strategy for Business Decisions (3 units)**

**Description:** The use of microeconomic analysis to formulate sound economic strategies for businesses of various types.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Course typically offered:**

### Main Campus: Spring

Online Campus: Fall, Summer

**Recommendations and additional information:** Students must have completed ECON 300.

This course is intended for Eller College Business Majors. Economics and Business Economics students are not eligible to take this class.

**ECON 406: Introduction to Experimental Economics (3 units)**

**Description:** Lab experimental studies of economic behavior; applications to monopoly, bilateral bargaining, and competitive markets under various exchange rules; speculation, voting processes, public goods.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Fall, Spring, Summer

**Recommendations and additional information:** If you have issues enrolling or intend to enroll in the prerequisite courses ECON 300 or ECON 361 during either Summer/Winter session, please send your enrollment request to: [econreg@eller.arizona.edu](mailto:econreg@eller.arizona.edu).

**Enrollment requirement:** Major or minor: ECON or BNEC. ECON 300 or ECON 361.

### Student Engagement Activity: Discovery

### Student Engagement Competency: Innovation and Creativity

**-SA** represents a Student Abroad & Student Exchange offering

**-CC** represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 407: Economics of Strategy** (3 units)

**Description:** The microeconomics of strategy; the economics of imperfect information and uncertainty, externalities and public goods, and imperfect competition.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Co-convened with:** ECON 507

**Course typically offered:**

Main Campus: Fall, Spring

**Recommendations and additional information:** If you have issues enrolling or intend to enroll in the prerequisite courses ECON 300 or ECON 361 during either Summer/Winter session, please send your enrollment request to: econreg@eller.arizona.edu.

**Enrollment requirement:** Major or minor: ECON or BNEC. ECON 300 or ECON 361.

**Student Engagement Activity:** Discovery

**Student Engagement Competency:** Sustainability

**ECON 410: Topics in Economics Analysis** (3 units)

**Description:** Study of selected important and current issues in economics while stressing the underlying analytical structure.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Fall, Spring

**Recommendations and additional information:** ECON 361.

**Honors Course:** Honors Contract

**Honors Course:** Honors Contract

**ECON 410: Topics in Economics Analysis** (3 units)

**Description:** Study of selected important and current issues in economics while stressing the underlying analytical structure.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Fall, Spring

**Recommendations and additional information:** ECON 361.

**Honors Course:** Honors Contract

**Honors Course:** Honors Contract

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 418: Introduction to Econometrics** (3 units)

**Description:** Statistical methods in estimating and testing economic models; single and simultaneous equation estimation, identification, forecasting, and problems caused by violating classical regression model assumptions.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Co-convened with:** ECON 518

**Course typically offered:**

Main Campus: Fall, Spring

**Recommendations and additional information:** If you have issues enrolling or intend to enroll in the prerequisite courses (AREC/ECON 339 or MGMT/ECON 276) and (ECON 300 or ECON 361) during either Summer/Winter session, please send your enrollment request to: econreg@eller.arizona.edu.

**Enrollment requirement:** Major or minor: ECON or BNEC. (AREC/ECON 339 or BNAD 276) and (ECON 300 or ECON 361).

**ECON 420: Introduction to Mathematical Economics** (3 units)

**Description:** Study and development of the mathematical structure that underlies economic theory and analysis.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Fall, Spring

**Recommendations and additional information:** ECON 332, ECON 361, and MATH 223.

**Honors Course:** Honors Contract

**Honors Course:** Honors Contract

**ECON 422: Introduction to Health Economics** (3 units)

**Description:** Applies microeconomic theory, industrial organization and public finance to efficiency and equity problems in the acute and chronic health-care sectors and explores solutions to these problems at an introductory level.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Equivalent to:** ECON 422

**Course typically offered:**

Main Campus: Fall, Spring

**Recommendations and additional information:** If you have issues enrolling or intend to enroll in the prerequisite courses ECON 300 or ECON 361 during either Summer/Winter session, please send your enrollment request to: econreg@eller.arizona.edu.

**Enrollment requirement:** Major or minor: ECON or BNEC. ECON 300 or ECON 361.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 425: Topics in the Economic History of the United States (3 units)**

**Description:** Examines the economic history and development of the United States, including roles of legal and cultural institutions, changes in output mix, government regulation, income distribution, monetary policy, and demographic factors.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Co-convened with: ECON 525**

**Course typically offered:**

Main Campus: Fall, Spring

**Recommendations and additional information:** If you have issues enrolling or intend to enroll in the prerequisite courses ECON 300 or ECON 361 during either Summer/Winter session, please send your enrollment request to: [econreg@eller.arizona.edu](mailto:econreg@eller.arizona.edu).

**Enrollment requirement:** Major or minor: ECON or BNEC. ECON 300 or ECON 361.

**ECON 426: Economic Foundations for Financial Markets (3 units)**

**Description:** The objective of this class is to develop the economic foundations for the understanding of how financial markets and financial transactions work. Appropriate historical backgrounds, analytical frameworks, and mathematical models will be provided so that students may better understand the current economic climate. Specific topics include the micro-foundations of saving and borrowing by individuals, loan profitability for banks, personal credit risk scores, bond credit risk and default rates, Fair Credit Lending Acts, financial leverage and risk, and stock and bond market indexes.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Fall, Spring

**Enrollment requirement:** Major or minor: ECON or BNEC. ECON 300 or ECON 361.

**ECON 427: Current Topics in Healthcare Economics and Policy (3 units)**

**Description:** This course uses the core principles and methods of health economics to analyze current important issues in healthcare economics & policy.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Co-convened with: ECON 527**

**Course typically offered:**

Main Campus: Fall, Spring

**Recommendations and additional information:** If you are currently enrolled in prerequisite courses ECON 300 or ECON 361 or intend to enroll in them during either Summer/Winter session, please send your enrollment request to: [econreg@eller.arizona.edu](mailto:econreg@eller.arizona.edu).

**Enrollment requirement:** Major or minor: ECON or BNEC. ECON 300 or ECON 361.

**-SA** represents a Student Abroad & Student Exchange offering

**-CC** represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.



**ECON 430: Monetary Economics** (3 units)

**Description:** Analysis of the role of money and monetary policy in the macroeconomic process.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Fall, Spring

**Recommendations and additional information:** If you have issues enrolling or intend to enroll in the prerequisite courses ECON 330 or ECON 332 during either Summer/Winter session, please send your enrollment request to: econreg@eller.arizona.edu.

**Enrollment requirement:** Major or minor: ECON or BNEC. ECON 330 or ECON 332.

**ECON 431: Games and Decisions** (3 units)

**Description:** Introduction to decision theory and game theory and their application to various economic situations under conditions of complete and incomplete information.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Co-convened with:** ECON 531

**Course typically offered:**

Main Campus: Fall, Spring, Summer

**Recommendations and additional information:** If you have issues enrolling or intend to enroll in the prerequisite courses ECON 300 or ECON 361 during either Summer/Winter session, please send your enrollment request to: econreg@eller.arizona.edu.

**Enrollment requirement:** Major or minor: ECON or BNEC. ECON 300 or ECON 361.

**ECON 435: Public Sector Economics** (3 units)

**Description:** The influence of governmental revenue and expenditure decisions on resource allocation, income distribution, and aggregate economic performance.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Co-convened with:** ECON 535

**Course typically offered:**

Main Campus: Fall, Spring

**Recommendations and additional information:** If you have issues enrolling or intend to enroll in the prerequisite courses ECON 300 or ECON 361 during either Summer/Winter session, please send your enrollment request to: econreg@eller.arizona.edu.

**Enrollment requirement:** Major or minor: ECON or BNEC. ECON 300 or ECON 361.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**Description:** This course explores at both the theoretical and empirical levels how psychological insights can be incorporated into economic analysis. Fundamental techniques building on game theory, experiments, and non-parametric statistics will be developed.

**Career:** Undergraduate

**Course typically offered:**

Main Campus: Fall, Spring

**Recommendations and additional information:** If you have issues enrolling or intend to enroll in the prerequisite courses ECON 300 or ECON 361 during either Summer/Winter session, please send your enrollment request to: [econreg@eller.arizona.edu](mailto:econreg@eller.arizona.edu).

**ECON 437: The Economics of Politics and Policymaking (3 units)**

**Description:** This course examines the constraints that politics imposes on implementing public policy. It has three major substantive themes: (i) the normative foundations of policy making, (ii) how strategic interactions give rise to social dilemmas and, in turn, create room for government to improve social welfare, and (iii) how technological, institutional, and strategic constraints can impede improvements in social welfare. The course uses the tools of Economics to address these questions. Toward that end, along the way, the course will introduce basic game theory. Game theory is the mathematical tool used to study strategic behavior and strategic situations. As such, it is a critical tool for understanding the substantive issues discussed above. Understanding basic game theory is a valuable skill in its own right; it helps us predict and understand how people and organizations will behave in response to changes in the policy environment.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Fall, Spring

**Enrollment requirement:** Major or minor: ECON or BNEC. ECON 300 or ECON 361.

**-CC** represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 438: Law and Economics** (3 units)

**Description:** The economic analysis of legal rules and institutions. The economics of the common law, constitutional law, and the legal process.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Fall

**Recommendations and additional information:** If you have issues enrolling or intend to enroll in the prerequisite courses ECON 300 or ECON 361 during either Summer/Winter session, please send your enrollment request to: econreg@eller.arizona.edu.

**Enrollment requirement:** Major or minor: ECON or BNEC. ECON 300 or ECON 361.

**ECON 439: Law, Statistics, and Economics** (3 units)

**Description:** The development and use of quantitative methods to determine appropriate economic damages that would be approved by the legal process.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Spring

**Recommendations and additional information:** If you have issues enrolling or intend to enroll in the prerequisite courses ECON/AREC 339 or ECON/MGMT 276 and either ECON 300 or 361 during either Summer/Winter session, please send your enrollment request to: econreg@eller.arizona.edu.

**Enrollment requirement:** Major or minor: ECON or BNEC. (ECON 339 or ECON 276) and (ECON 300 or ECON 361).

**Honors Course:** Honors Contract

**Honors Course:** Honors Contract

**ECON 440: Behavioral Game Theory** (3 units)

**Description:** To introduce students to the exciting world of behavioral game theory, which brings concepts and ideas from psychology into the study of economics, to bear on situations where decision makers interact and influence each other as studied using game theory.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Fall, Spring

**Recommendations and additional information:** It is recommended that students pass Econ 431 before enrolling in Econ 440, but it is not required.

**Enrollment requirement:** Major or minor: ECON or BNEC. ECON 300 or ECON 361.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 442: International Macroeconomics** (3 units)

**Description:** Analysis of exchange rates, balance of payments, and macroeconomic/financial interdependencies among nations.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Co-convened with:** ECON 542

**Course typically offered:**

Main Campus: Fall, Spring

**Recommendations and additional information:** If you have issues enrolling or intend to enroll in the prerequisite courses ECON 330 or ECON 332 during either Summer/Winter session, please send your enrollment request to: econreg@eller.arizona.edu.

**Enrollment requirement:** Major or minor: ECON or BNEC. ECON 330 or ECON 332.

**ECON 443: International Trade Theory** (3 units)

**Description:** General equilibrium analysis of product and input markets of international trade, tariffs, commercial policy, and growth and the welfare aspects of each.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Co-convened with:** ECON 543

**Course typically offered:**

Main Campus: Fall

**Recommendations and additional information:** If you have issues enrolling or intend to enroll in the prerequisite courses ECON 300 or ECON 361 during either Summer/Winter session, please send your enrollment request to: econreg@eller.arizona.edu.

**Enrollment requirement:** Major or minor: ECON or BNEC. ECON 300 or ECON 361.

**ECON 452: Information Economics and the Internet** (3 units)

**Description:** This course will use concepts and tools from microeconomics to analyze and help students understand the internet, electronic commerce, and other facets of information technology.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Fall, Spring, Summer

**Recommendations and additional information:** If you have issues enrolling or intend to enroll in the prerequisite courses ECON 300 or ECON 361 during either Summer/Winter session, please send your enrollment request to: econreg@eller.arizona.edu.

**Enrollment requirement:** Major or minor: ECON or BNEC. ECON 300 or ECON 361.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 453: Data Analytics and Modeling: Quantitative Analysis for Economic Strategy** (3 units)

**Description:** Forecasting techniques used in business and government; assembly, interpretation and use of economic data; analysis of business conditions; examination of related environmental factors; construction of actual sales or revenue forecasts.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Flat Fee:** \$19

**Course Components:**      Lecture                                      Required

**Course typically offered:**

Main Campus: Fall, Spring

**Recommendations and additional information:** If you have issues enrolling or intend to enroll in the prerequisite courses (AREC/ECON 339 or MGMT/ECON 276) or (ECON 300 or ECON 361) during either Summer/winter session, please send your enrollment request to: econreg@eller.arizona.edu.

**Enrollment requirement:** Major or minor: ECON or BNEC. (AREC/ECON 339 or BNAD 276) and (ECON 300 or ECON 361).

**Student Engagement Activity:** Professional Development

**Student Engagement Competency:** Professionalism

**ECON 454: Advanced Data Analytics and Modeling: Advanced Quantitative Analysis for Economic Strategy** (3 units)

**Description:** The objective of the class is to develop advanced data handling, graphic visualization, and econometric methods that are used in the analysis of large/big economic and business datasets. Statistical software such as SAS will be used for statistical programming and data visualization. In addition, SQL programming may be used for data management (the accessing, cleaning, merging, and preparation of large datasets for analysis). Statistical techniques may include, but are not limited to: linear regression, panel data models, logistic regression, classification and regression trees, and analysis of variance. Lastly, students will learn how to effectively communicate their results to both a technical and non-technical audience.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:**      Lecture                                      Required

**Course typically offered:**

Main Campus: Fall, Spring

**Enrollment requirement:** Major or minor: ECON or BNEC. ECON 453.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 460: Industrial Organization** (3 units)

**Description:** Structure, conduct, and performance of American industry; governmental institutions and policies affecting business.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:**      Lecture                              Required

**Co-convened with:** ECON 560

**Course typically offered:**

Main Campus: Fall, Spring, Summer

**Recommendations and additional information:** If you have issues enrolling or intend to enroll in the prerequisite courses ECON/AREC 339 or ECON/MGMT 276 and either ECON 300 or 361 during either Summer/Winter session, please send your enrollment request to: econreg@eller.arizona.edu.

**Enrollment requirement:** Major or minor: ECON or BNEC. (ECON 339 or ECON 276) and (ECON 300 or ECON 361).

**ECON 461: Economics of Regulated Industries** (3 units)

**Description:** Economic analysis of the regulated sector of the American economy, including communications, transportation and energy industries; impact of existing and alternative public policies.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:**      Lecture                              Required

**Co-convened with:** ECON 561

**Course typically offered:**

Main Campus: Fall, Spring

**Recommendations and additional information:** If you have issues enrolling or intend to enroll in the prerequisite courses ECON 300 or ECON 361 during either Summer/Winter session, please send your enrollment request to: econreg@eller.arizona.edu.

**Enrollment requirement:** Major or minor: ECON or BNEC. ECON 300 or ECON 361.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 473: Energy Markets and Environmental Economics (3 units)**

**Description:** Economic analysis of various markets for energy and the impact of energy production and consumption on the environment.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Spring

**Recommendations and additional information:** If you have issues enrolling or intend to enroll in the prerequisite courses (AREC/ECON 339 or MGMT/ECON 276) or (ECON 300 or ECON 361) during either Summer/winter session, please send your enrollment request to: econreg@eller.arizona.edu.

**Enrollment requirement:** Major or minor: ECON or BNEC. (AREC/ECON 339 or BNAD 276) and (ECON 300 or ECON 361).

**ECON 478: Economics of the Natural Environment (3 units)**

**Description:** Economics is used to study the allocation, management, and ownership of such natural resources as air, fisheries, forests, global resources, minerals, natural areas, oil & gas, water, and wildlife. The course is comprised of theoretical models and detailed applications - including the relationship between economic development and environment, the economics of climate change, and the economics of public land management. Emphasis is placed on the causes and effects of alternative institutions governing the use of the natural environment with a focus on property rights, legal rules, regulations, and administrative agencies.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Equivalent to: ECON 478**

**Also offered as: AREC 478**

**Home department:** Agricultural & Resource Economics

**Enrollment requirement:** Major or minor: ABEMBS, EWREBS. Junior or Senior status. (AREC 304 or ECON 300 or ECON 361) and AREC 339.

**-SA** represents a Student Abroad & Student Exchange offering

**-CC** represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.



**Description:** Develops written communication skills applied to topics in economics. Students are required to enroll in ECON 479 as soon as they are eligible. In order to satisfy this course, a grade of C or better must be earned. If a C or better has not been earned, then the student must repeat the course. Once a grade of C or better has been earned, the requirement has been met and the student may not repeat the course.

**Career:** Undergraduate

**Repeatable:** Course can be repeated a maximum of 3 times.

**Course typically offered:**

Main Campus: Fall, Spring, Summer

**Enrollment requirement:** Major or minor: ECON or BNEC. Junior or senior status. ECON 332 or ECON 361.

**Description:** Applications of economic theory and empirical methods to labor supply and demand, investment in human capital, minimum wages, union effects on relative wages, and labor market discrimination.

**Career:** Undergraduate

**Course typically offered:**

Main Campus: Fall, Spring

**Enrollment requirement:** Major or minor: ECON or BNEC. (ECON 339 or ECON 276) and (ECON 300 or ECON 361).

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 482: Labor and the Economy** (3 units)

**Description:** Macro aspects of labor economics: unemployment causes and cures; unemployment and inflation; distribution of income.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Fall, Spring

**Recommendations and additional information:** If you have issues enrolling or intend to enroll in the prerequisite courses ECON/AREC 339 or ECON/MGMT 276 and either ECON 300 or 361 during either Summer/Winter session, please send your enrollment request to: econreg@eller.arizona.edu.

**Enrollment requirement:** Major or minor: ECON or BNEC. (ECON 339 or ECON 276) and (ECON 300 or ECON 361).

**ECON 498H: Honors Thesis** (3 units)

**Description:** An honors thesis is required of all the students graduating with honors. Students ordinarily sign up for this course as a two-semester sequence. The first semester the student performs research under the supervision of a faculty member; the second semester the student writes an honors thesis.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Independent Study Required

**Repeatable:** Course can be repeated for a maximum of 9 units.

**Course typically offered:**

Main Campus: Fall, Spring

**Enrollment requirement:** Adv Stdg: Economics. Honors active.

**Honors Course:** Honors Course

**Honors Course:** Honors Course

**Writing Emphasis:** Writing Emphasis Course

**ECON 499: Independent Study** (1 - 5 units)

**Description:** Qualified students working on an individual basis with professors who have agreed to supervise such work.

**Grading basis:** Alternative Grading: S, P, F

**Career:** Undergraduate

**Course Components:** Independent Study Required

**Repeatable:** Course can be repeated a maximum of 99 times.

**Course typically offered:**

Main Campus: Fall, Spring

**Enrollment requirement:** Major: Economics (ECONBA) or Business Economics (BNECBSBA).

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 499H: Honors Independent Study** (1 - 3 units)

**Description:** Qualified students working on an individual basis with professors who have agreed to supervise such work.

**Grading basis:** Regular Grades

**Career:** Undergraduate

**Course Components:** Independent Study Required

**Repeatable:** Course can be repeated a maximum of 99 times.

**Course typically offered:**

Main Campus: Fall, Spring

**Enrollment requirement:** Adv Stdg: Economics. Honors active.

**Honors Course:** Honors Course

**Honors Course:** Honors Course

**ECON 501A: Microeconomic Theory** (3 units)

**Description:** Value and distribution.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Fall

**Recommendations and additional information:** ECON 361.

**ECON 501B: Microeconomic Theory** (3 units)

**Description:** General equilibrium and welfare economics.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Fall

**Recommendations and additional information:** ECON 501A.

**ECON 501C: Microeconomic Theory** (3 units)

**Description:** Other selected topics.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Spring

**Recommendations and additional information:** ECON 501B.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 501D: Market Design** (3 units)

**Description:** Market design, instead of taking allocation procedures as given, aims to improve their performance. Some of the prominent examples are spectrum auctions, electricity markets, school choice, kidney exchange, position auctions for online advertisements, matching of medical residents with hospitals, congestion pricing, electronic markets and e-commerce. The aim of the course is to build on the game theoretic tools from the prior semester and to explore some of the above topics in greater detail, with a focus on real world applications and on empirical as well as experimental data.

**Grading basis:** Regular Grades

**Career:** Graduate

<b>Course Components:</b>	Lecture	Required
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**Course typically offered:**

**Main Campus: Fall, Spring**

**Recommendations and additional information:** ECON 501C.

**Field trip:** Not applicable.

**ECON 502: Dynamic Economic Analysis (3 units)**

**Description:** National income analysis.

**Grading basis:** Regular Grades

**Career:** Graduate

<b>Course Components:</b>	Discussion Lecture	May Be Offered Required
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**Course typically offered:**

Main Campus: Spring

**Recommendations and additional information:** ECON 332.

**ECON 503A: Microeconomic Theory (3 units)**

**Description:** This course provides a rigorous foundation in Microeconomic Theory and its analytical methods at an advanced level that will prepare students for a corporate, regulatory, or consulting careers or for the pursuit of a PhD in Economics.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Fall

**Field trip:** None

**-SA** represents a Student Abroad & Student Exchange offering

**-CC** represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 503B: Microeconomic Theory** (3 units)

**Description:** ECON 503B is a course in microeconomic theory at the masters level. The main focus of this course will be game theory. The main goal of the course is to give students an introduction into analyzing strategic interactions with self-interested agents. The course will introduce concepts for analyzing these games indifferent environments. Along with the concepts, a number of examples will be given, which highlight the applicability of game theory to a variety of ?fields, including economics, political science, computer science, biology, and engineering.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:**    Lecture                      Required

**Course typically offered:**

Main Campus: Fall

Phoenix Campus: Fall, Winter, Summer

**Field trip:** None

**ECON 504: Production Economics (3 units)**

**Description:** Theory of the firm and industry; single and multiple products; risk and uncertainty.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:**    Lecture                      Required

**Repeatable:** Course can be repeated for a maximum of 6 units.

**Equivalent to: ECON 504**

**Also offered as: AREC 504**

**Course typically offered:**

Main Campus: Spring

**Home department:** Agricultural & Resource Economics

**ECON 506: Experimental Economics** (3 units)

**Description:** This is an introductory course that covers the major results that have been obtained by using experiments in economics. Experiments are used in economics, like they are in the natural sciences and in psychology, to learn about the world around us. In the case of experimental economics, the goal is to better understand how people make decisions in economic settings and how these translate into overall market and group outcomes. The objectives of this course are to acquaint you with the main findings from economic experiments, give you experience participating in experiments, and show you how the insights can be used in business settings.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:**    Lecture                      Required

**Course typically offered:**

Main Campus: Fall, Spring

**-SA** represents a Student Abroad & Student Exchange offering

**-CC** represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 508: Applied Economic Analysis (3 units)**

**Description:** Uses economic history to show how research methods in economics are used to analyze data collected through empirical observation.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:**    Lecture                      Required

**Course typically offered:**

Main Campus: Spring

**Recommendations and additional information:** ECON 501A, ECON 520.

**ECON 510: Theory of Quantitative Methods in Economics (3 units)**

**Description:** We will study various quantitative methods which provide background knowledge and tools for econometrics; i.e. empirical studies in economics. More specifically, we study probability theory, statistics, and practice using a statistical package R. The practical minimal goal is that you understand comfortably the first 3 chapters and Appendices 18.1 and 18.2 in Stock and Watson "Introduction to Econometrics" and use R confidently. In addition, we will study a script language called Python. Python is a general language with many libraries which make it a very useful tool to conducting quantitative analysis and used intensively in industry along with R. The goal here is to gain the understanding of the language to prepare you for a further study using Python. We will use R, a statistical package and a matrix language environment popular among statisticians, to enhance understanding of the concepts studied in class. There are excellent alternatives such as Stata. Although R is the de facto standard statistical software among statisticians, Stata may be more popular among economists. Once you are used to R, it does not take much effort to learn Stata.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:**    Lecture                          Required

**Course typically offered:**

Main Campus: Summer

**Field trip:** None

**-SA** represents a Student Abroad & Student Exchange offering

**-CC** represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**Description:** Econometrics is the art and science of the estimating and testing of economic models. These estimated models can then be used for causal inference and prediction. This course gives a rigorous introduction in econometrics. It covers the linear model, potential outcome model, the average treatment effect, multivariate linear model, nonlinear models with and without endogeneity, LASSO estimation, machine learning, prediction, and the bootstrap. Knowledge of statistics at the level of Economics 510 Masters level is assumed as well as knowledge of calculus at the level of Hansen (2018), appendix A. Computer programming experience is helpful but not required. An important objective of the course is for the student to learn how to conduct  $\hat{\theta}$  and how to critique  $\hat{\theta}$  empirical studies in economics and related fields. The course emphasizes understanding and intuition so that you can adjust the tools to new quantitative problems that you may encounter. This distinguishes the course from an undergraduate course or an 'econometric cookbook' course.

Main Campus: Fall

**Enrollment requirement:** ECON 510

**Description:** The objective of this course is to introduce the basic ideas of modern statistical learning and predictive modeling, from a statistical, theoretical and computational perspective, together with applications and analysis of economic data for graduate studies in economics and related fields.

Main Campus: Fall, Spring

**Enrollment requirement:** Econ 510 & Econ 511A

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.



**ECON 512: Development Economics** (3 units)

**Description:** This course provides a graduate-level overview of development economics from a policy-oriented perspective. The goal of this course is to allow students to analyze policy debates surrounding economic growth and development from a broad and rigorous analytical base. Topics covered include theories of economic growth, poverty, inequality, education, health, gender inequality, development programs, and psychological and social foundations of economic development.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Lecture Required

**Equivalent to:** ARL 512, ARL 512, ECON 512

**Also offered as:** AREC 512, ARL 512

**Course typically offered:**

Main Campus: Fall

**Recommendations and additional information:** ECON 361, MATH 113.

**Home department:** Agricultural & Resource Economics

**ECON 513: Consumption Economics and Price Analysis** (3 units)

**Description:** Theory of the consumer, demand, and market equilibrium, and welfare analysis.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Lecture Required

**Repeatable:** Course can be repeated for a maximum of 6 units.

**Equivalent to:** AEC 513, ECON 513

**Also offered as:** AREC 513

**Course typically offered:**

Main Campus: Fall

**Recommendations and additional information:** ECON 361, MATH 113.

**Home department:** Agricultural & Resource Economics

**ECON 514: Cost-Benefit Analysis** (3 units)

**Description:** Theoretical bases and empirical techniques. Consumer-producer surplus; social and private costs; macroeconomic distortions; non-market goods; uses in policy analysis.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Lecture Required

**Equivalent to:** AEC 514, ECON 514, MAP 514, RNR 514

**Also offered as:** AREC 514, RNR 514

**Recommendations and additional information:** ECON 361, MATH 113.

**Home department:** Agricultural & Resource Economics

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 516: Microeconomics of Agricultural Development (3 units)**

**Description:** Economics of farm- and household-level decision making. Study input and output markets, technology adoption and social economics in lower-income countries.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Lecture Required

**Equivalent to: ECON 516**

**Also offered as: AREC 516**

**Course typically offered:**

Main Campus: Spring

**Home department:** Agricultural & Resource Economics

**ECON 518: Introduction to Econometrics (3 units)**

**Description:** Statistical methods in estimating and testing economic models; single and simultaneous equation estimation, identification, forecasting, and problems caused by violating classical regression model assumptions. Graduate-level requirements include a research project that involves applications of econometric methods to the estimating and testing of behavioral models or simulation studies of the statistical properties of an econometric estimation technique. Advanced degree credit available for non-majors only.

**Grading basis:** Regular Grades

**Career:** Graduate

<b>Course Components:</b>	Lecture	Required
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**Co-convened with: ECON 418**

**Course typically offered:**

**Main Campus: Fall, Spring**

**ECON 519: Mathematical Economics** (3 units)

**Description:** Introduction to the theory and methods of mathematical economics and its applications. Designed primarily for entering graduate students majoring in economics.

**Grading basis:** Regular Grades

**Career:** Graduate

<b>Course Components:</b>	Lecture	Required
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**Course typically offered:**

Main Campus: Fall

**-SA** represents a Student Abroad & Student Exchange offering

-**CC** represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 520: Theory of Quantitative Methods in Economics (3 units)**

**Description:** Introduction to the basic concepts of statistics and their application to the analysis of economic data. Designed primarily for entering graduate students majoring in economics.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:**    Lecture                      Required

**Course typically offered:**

Main Campus: Fall

**Recommendations and additional information:** Consult department before enrolling.

**ECON 522A: Econometrics** (3 units)

**Description:** The theory of econometric estimation of single and simultaneous equation models.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:**    Lecture                      Required

**Course typically offered:**

Main Campus: Spring

**Recommendations and additional information:** ECON 520.

**ECON 522B: Econometrics** (3 units)

**Description:** Additional topics in the theory of econometric estimation of single and simultaneous equation models.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:**    Lecture                      Required

**Course typically offered:**

Main Campus: Fall

**Recommendations and additional information:** ECON 522A.

**ECON 527: Current Topics in Healthcare Economics and Policy (3 units)**

**Description:** This course uses the core principles and methods of health economics to analyze current important issues in healthcare economics & policy. Graduate-level requirements include being held to a higher performance standard and will be expected to write a more extensive research paper.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:**    Lecture                      Required

**Co-convened with:**

**Course typically offered:**

Main Campus: Fall, Spring

**-SA** represents a Student Abroad & Student Exchange offering

**-CC** represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 529: Mathematics for Economics (3 units)**

**Description:** Introduction to linear algebra, multivariable calculus, and optimization theory, with an emphasis on topics related to basic microeconomic and econometric theory. Designed primarily for entering masters students majoring in economics and related fields.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:**    Lecture                      Required

**Course typically offered:**

Main Campus: Summer

**Field trip:** None

**ECON 531: Games and Decisions** (3 units)

**Description:** Introduction to decision theory and game theory and their application to various economic situations under conditions of complete and incomplete information. Graduate-level requirements include a research paper.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:**    Lecture                      Required

**Co-convened with: ECON 431**

**Course typically offered:**

Main Campus: Fall, Spring, Summer

**ECON 532: Health Economics** (3 units)

**Description:** This is a masters-level course in health economics. During this course, students will gain a solid foundation in four dimensions that are critical for a thorough understanding of this field: Theory, Institution, Policy, and Empirics.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:**    Lecture                      Required

**Course typically offered:**

Main Campus: Spring

**Field trip:** Not applicable

**Enrollment requirement:** ECON 501A

**-SA** represents a Student Abroad & Student Exchange offering

**-CC** represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 549: Applied Econometric Analysis** (3 units)

**Description:** Econometric model-building, estimation, forecasting and simulation for problems in agricultural and resource economics. Applications with actual data and models emphasized.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Lecture Required

**Equivalent to:** AEC 549, AREC 549

**Also offered as: AREC 549**

**Course typically offered:**

Main Campus: Spring

**Recommendations and additional information:** ECON 518.

**ECON 550: Economics for Managers** (2 units)

**Description:** Microeconomic theory and applications for business management decision making.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:**    Lecture                  Required

**Course typically offered:**

Main Campus: Spring

Phoenix Campus: Spring

**ECON 551: Business Strategy** (2 units)

**Description:** Development of business strategies to promote the competitive performance of firms.

**Grading basis:** Regular Grades

**Career:** Graduate

<b>Course Components:</b>	Lecture	Required
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**Course typically offered:**

Main Campus: Fall, Spring, Summer

Online Campus: Summer

Phoenix Campus: Spring, Summer

**-SA** represents a Student Abroad & Student Exchange offering

**-CC** represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 554: Innovation and Technology Strategy (3 units)**

**Description:** Study of how new knowledge or new ideas can be transformed into commercial success.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Lecture Required

**Course typically offered:**

Main Campus: Fall

**Recommendations and additional information:** ECON 500, ECON 550, BNAD 510, consent of instructor.

**ECON 555: Macroeconomics & Forecasting (2 units)**

**Description:** An understanding of the larger economy is essential to making good business decisions. This course examines how macroeconomic performance is measured, how monetary and fiscal policies influence macroeconomic performance, and how these relate to individuals and businesses. The course also provides students with an understanding of how macroeconomists produce forecasts and how those forecasts should be used. Students will learn macroeconomic concepts and immediately apply them to real world scenarios using macroeconomic data. The focus will be on analytical skills that will allow the student to apply macroeconomics to the real world in real time.

**Grading basis:** Regular Grades

**Career:** Graduate

<b>Course Components:</b>	Lecture	Required
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**Course typically offered:** Online Campus: Spring

**ECON 556: Health Economics** (3 units)

**Description:** Healthcare expenditures now account for more than 1/6 of Gross Domestic Product in the United States. This class will explore the sources of funding for those expenditures, and the rapidly changing trends therein.

**Grading basis:** Regular Grades

**Career:** Graduate

<b>Course Components:</b>	Lecture	Required
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**Course typically offered:** Online Campus: Fall, Spring

**-SA** represents a Student Abroad & Student Exchange offering

-**CC** represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**Description:** Structure, conduct, and performance of American industry; governmental institutions and policies affecting business. Graduate-level requirements include an applied research project that examines the impact of public policy on industry performance.

**Career:** Graduate

**Equivalent to: AREC 560**

**Also offered as: AREC 560**

**Co-convened with: ECON 460**

**Course typically offered:**

Main Campus: Fall, Spring

**ECON 574B: Bayesian Statistical Theory and Applications (3 units)**

**Description:** Basic theory of Bayesian inference, including analytical and numerical methods for assessing posterior and predictive distributions, and applications. Topics will include Bayesian analysis of normal linear regression and computational methods including Markov chain Monte Carlo.

**Grading basis:** Regular Grades

**Career:** Graduate

<b>Course Components:</b>	Lecture	Required
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**Equivalent to: STAT 574B**

**Also offered as: BIOS 574B, STAT 574B**

**Course typically offered:**

Main Campus: Spring

**Recommendations and additional information:** ECON 522A, ECON 522B; concurrent registration, MATH 566 and MATH 571A.

**-CC** represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.



**Description:** Economic incentives, tradable permits and markets for ecosystem services are pivotal in contemporary water and environmental policy. This class covers theory and application of economic concepts needed to evaluate water and environmental laws and policies; including ecosystem service provision, tradable use permits, benefit cost analysis, externalities, public goods and valuation methodologies. Case studies include federal, state, tribal and international water and environmental policies.

Main Campus: Fall

**Home department:** Agricultural & Resource Economics

## Main Campus: Spring

**Home department:** Agricultural & Resource Economics

**Home department:** Agricultural & Resource Economics

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 578: Energy, the Environment and Business Strategy** (3 units)

**Description:** Analysis of issues and ideas that cut across corporate social responsibility, sustainable business practices, energy considerations, and environmental innovation.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:**      Lecture                              Required

**Also offered as:** LAW 578

**Course typically offered:**

Main Campus: Spring

**Recommendations and additional information:** ECON 500 or ECON 550.

**ECON 579: Spatial Statistics and Spatial Econometrics** (3 units)

**Description:** This course provides the statistical and econometric techniques required for the analysis of geocoded data. Identification of spatial heterogeneity and inclusion in a formal regression model. An important aspect of the course is to gain hands-on experience in applying the appropriate techniques and using state-of-the-art software.

**Grading basis:** Regular Grades

**Career:** Graduate

**Flat Fee:** \$50

**Course Components:**      Lecture                              Required

**Equivalent to:** PLG 577

**Also offered as:** GEOG 579, PLG 579, STAT 579

**Course typically offered:**

Main Campus: Spring

**Home department:** School of Geography and Development

**ECON 580: Mathematics for Economists** (2 units)

**Description:** Intensive course in essential mathematics for entering graduate students in the M. S. and Ph.D. programs in Economics and Agricultural and Resource Economics. Topics covered include matrix algebra, functions, limits, differentiation, comparative statistics, and constrained and unconstrained optimization.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:**      Lecture                              Required

**Equivalent to:** ECON 580

**Also offered as:** AREC 580

**Course typically offered:**

Main Campus: Fall

**Home department:** Agricultural & Resource Economics

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 588: Labor Economics** (3 units)

**Description:** This is a masters-level course in labor economics. In this course, we will explore the various determinants of individual and family decisions about labor force participation and hours worked, study the implications of taxes, welfare, and other social policies for the labor market, and discuss topics such as the minimum wage, inequality, immigration, and education. Students will be exposed to academic research in the field of labor economics and gain an understanding of the traditional economic models relevant to the study of the labor market.

**Grading basis:** Regular Grades

**Career:** Graduate

<b>Course Components:</b>	Lecture	Required
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**Course typically offered:**

Main Campus: Fall, Spring

**ECON 597C: Teaching Methods in Economics (1 - 3 units)**

**Description:** The practical application of theoretical learning within a group setting and involving an exchange of ideas and practical methods, skills, and principles.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Workshop Required

**Course typically offered:**

Main Campus: Fall, Spring

**Recommendations and additional information:** Consult department before enrolling.

**ECON 599: Independent Study** (3 units)

**Description:** Qualified students working on an individual basis with professors who have agreed to supervise such work. Graduate students doing independent work which cannot be classified as actual research will register for credit under course number 599, 699, or 799.

**Grading basis:** Alternative Grading: S, P, F

**Career:** Graduate

**Course Components:** Independent Study      Required

**Repeatable:** Course can be repeated a maximum of 99 times.

**Course typically offered:**

Main Campus: Fall, Spring

**-SA** represents a Student Abroad & Student Exchange offering

**-CC** represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 696A: Experimental Economics** (3 units)

**Description:** The development and exchange of scholarly information, usually in a small group setting. The scope of work shall consist of research by course registrants, with the exchange of the results of such research through discussion, reports, and/or papers.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Seminar Required

**Repeatable:** Course can be repeated a maximum of 2 times.

**Course typically offered:**

Main Campus: Fall

**ECON 696B: Behavioral Economics** (3 units)

**Description:** The study and analysis of recent developments in behavioral economics.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Seminar Required

**Repeatable:** Course can be repeated a maximum of 4 times.

**Course typically offered:**

Main Campus: Spring

**ECON 696E: Econometric Modeling I** (3 units)

**Description:** The development and exchange of scholarly information, usually in a small group setting. The scope of work shall consist of research by course registrants, with the exchange of the results of such research through discussion, reports, and/or papers.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Seminar Required

**Repeatable:** Course can be repeated a maximum of 2 times.

**Also offered as:** STAT 696E

**Course typically offered:**

Main Campus: Fall, Spring

**ECON 696F: Econometric Modeling II** (3 units)

**Description:** The development and exchange of scholarly information, usually in a small group setting. The scope of work shall consist of research by course registrants, with the exchange of the results of such research through discussion, reports, and/or papers.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Seminar Required

**Repeatable:** Course can be repeated a maximum of 2 times.

**Course typically offered:**

Main Campus: Fall

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 696H: Labor Economics I** (3 units)

**Description:** The development and exchange of scholarly information, usually in a small group setting. The scope of work shall consist of research by course registrants, with the exchange of the results of such research through discussion, reports, and/or papers.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Seminar Required

**Repeatable:** Course can be repeated a maximum of 2 times.

**Course typically offered:**

Main Campus: Fall

**ECON 696I: Labor Economics II** (3 units)

**Description:** The development and exchange of scholarly information, usually in a small group setting. The scope of work shall consist of research by course registrants, with the exchange of the results of such research through discussion, reports, and/or papers.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Seminar Required

**Repeatable:** Course can be repeated a maximum of 2 times.

**Course typically offered:**

Main Campus: Spring

**ECON 696P: Industrial Organization and Regulation I** (3 units)

**Description:** The development and exchange of scholarly information, usually in a small group setting. The scope of work shall consist of research by course registrants, with the exchange of the results of such research through discussion, reports, and/or papers.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Seminar Required

**Repeatable:** Course can be repeated a maximum of 4 times.

**Course typically offered:**

Main Campus: Fall

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 696Q: Industrial Organization and Regulation II** (3 units)

**Description:** The development and exchange of scholarly information, usually in a small group setting. The scope of work shall consist of research by course registrants, with the exchange of the results of such research through discussion, reports, and/or papers.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Seminar Required

**Repeatable:** Course can be repeated a maximum of 4 times.

**Course typically offered:**

Main Campus: Spring

**ECON 696R: Advanced Microeconomic Theory I** (3 units)

**Description:** The development and exchange of scholarly information, usually in a small group setting. The scope of work shall consist of research by course registrants, with the exchange of the results of such research through discussion, reports, and/or papers.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Seminar Required

**Repeatable:** Course can be repeated a maximum of 2 times.

**Course typically offered:**

Main Campus: Fall

**ECON 696S: Advanced Microeconomic Theory II** (3 units)

**Description:** The development and exchange of scholarly information, usually in a small group setting. The scope of work shall consist of research by course registrants, with the exchange of the results of such research through discussion, reports, and/or papers.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Seminar Required

**Repeatable:** Course can be repeated a maximum of 2 times.

**Course typically offered:**

Main Campus: Fall

**Recommendations and additional information:** ECON 501A, 501B, 501C, 502, and 508.

**ECON 696U: Game Theory** (3 units)

**Description:** Development and application of game theoretic models and techniques.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Seminar Required

**Repeatable:** Course can be repeated a maximum of 4 times.

**Course typically offered:**

Main Campus: Spring

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 696V: Environmental and Energy Economics: Climate Change** (3 units)

**Description:** Using formal economic analysis to provide new perspectives on environmental questions. The first half of the course emphasizes methods for dynamic analysis and numerical techniques for dynamic optimization, with special application to climate economics. The second half studies theoretical approaches to a core set of environmental and energy topics, including decision-making under uncertainty.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Seminar Required

**Repeatable:** Course can be repeated a maximum of 3 times.

**Course typically offered:**

Main Campus: Spring

**Recommendations and additional information:** ECON 501A, 501B, 501C, and 502.

**ECON 696W: Environmental and Energy Economics - Empirical** (3 units)

**Description:** The analysis of important and current empirical topics in environmental and energy economics. It begins with a brief introduction to some of the most important theoretical ideas of environmental economics and then dives into recent empirical analyses of the costs and benefits of environmental and energy issues. Topics will include: economic and health costs of pollution, wholesale and retail electricity markets, household energy behavior, emissions markets, the effects of environmental regulation on firms, fuel economy standards and gasoline taxes, and the relationship between the environment and economic development.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Seminar Required

**Repeatable:** Course can be repeated a maximum of 2 times.

**Course typically offered:**

Main Campus: Fall

**Recommendations and additional information:** ECON 501A, 501B, 501C, 502, 508, and 522A.

**ECON 696X: Economic History I** (3 units)

**Description:** The development and exchange of scholarly information, usually in a small group setting. The scope of work shall consist of research by course registrants, with the exchange of the results of such research through discussion, reports, and/or papers.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Seminar Required

**Repeatable:** Course can be repeated a maximum of 2 times.

**Course typically offered:**

Main Campus: Spring

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

**ECON 696Y: Economic History II** (3 units)

**Description:** The development and exchange of scholarly information, usually in a small group setting. The scope of work shall consist of research by course registrants, with the exchange of the results of such research through discussion, reports, and/or papers.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Seminar Required

**Repeatable:** Course can be repeated a maximum of 2 times.

**Course typically offered:**

Main Campus: Spring

**ECON 696Z: Law and Economics** (3 units)

**Description:** Development and analysis of theoretical and applied models at the intersection of law and economics, including asymmetric information, adverse selection, moral hazard, and contracts.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Seminar Required

**Repeatable:** Course can be repeated a maximum of 3 times.

**Course typically offered:**

Main Campus: Fall

**Recommendations and additional information:** ECON 501A, ECON 501B, and ECON 501C.

**ECON 697B: Applied Economic Analysis** (3 units)

**Description:** The study and analysis of recent developments in empirical economics.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Workshop Required

**Repeatable:** Course can be repeated for a maximum of 12 units.

**Course typically offered:**

Main Campus: Fall, Spring

**Recommendations and additional information:** ECON 696C.

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.



**ECON 697I: Advanced Microeconomic Theory** (3 units)

**Description:** The practical application of theoretical learning within a group setting and involving an exchange of ideas and practical methods, skills, and principles.

**Grading basis:** Regular Grades

**Career:** Graduate

**Course Components:** Workshop Required

**Repeatable:** Course can be repeated a maximum of 5 times.

**Course typically offered:**

Main Campus: Fall, Spring

**Recommendations and additional information:** ECON 696R, ECON 696S.

**ECON 699: Independent Study** (1 - 3 units)

**Description:** Qualified students working on an individual basis with professors who have agreed to supervise such work. Graduate students doing independent work which cannot be classified as actual research will register for credit under course number 599, 699, or 799.

**Grading basis:** Alternative Grading: S, P, F

**Career:** Graduate

**Course Components:** Independent Study Required

**Repeatable:** Course can be repeated a maximum of 99 times.

**Course typically offered:**

Main Campus: Fall, Spring

**ECON 920: Dissertation** (1 - 9 units)

**Description:** Research for the doctoral dissertation (whether library research, laboratory or field observation or research, artistic creation, or dissertation writing).

**Grading basis:** Alternative Grading: S, P, F

**Career:** Graduate

**Course Components:** Independent Study Required

**Repeatable:** Course can be repeated a maximum of 99 times.

**Course typically offered:**

Main Campus: Fall, Spring, Summer

-SA represents a Student Abroad & Student Exchange offering

-CC represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.