204 / Programs and Courses

varies from quarter to quarter. Each segment is repeatable to a maximum of 12 units.

GEO 259. Tectonics of California (4) Lecture, 2 hours; seminar, 2 hours. Prerequisite(s): consent of instructor. Geological, geophysical, and paleontological bases of interpreting tectonic development of California, with special emphasis on southern California. Interdisciplinary approach will be emphasized. Weekly reading assignments, active participation in discussions, and appropriate field and library research will be required. Participants will prepare two papers and give presentations.

GEO 260. Global Climate Change (4) Seminar, 3 hours; term paper, 3 hours. Prerequisite(s): PHYS 002C or PHYS 040C or consent of instructor. Explores global climate change in historic and geologic time scales. Topics include ocean-atmosphere feedbacks, El Niño, Pacific decadal oscillation, anthropogenic CO2, volcanism, cosmic rays, polar ozone depletion, global climate modeling, stable isotopes, “ice house” Pleistocene climates, “greenhouse” climates of the Mesozoic and Tertiary, plate tectonics, and the “snowball Earth.”

GEO 263. Organic and Petroleum Geochemistry (4) Lecture, 3 hours; seminar, 1 hour. Prerequisite(s): graduate standing. Explores the geologic fate of organic molecules in the sedimentary record, from fossil DNA to lipids. Addresses current analytical techniques used for detecting molecular fossils and for characterizing sedimentary organic matter. Covers topical applications of organic geochemical tools to archaeology, geobiology, palaeoclimatic and palaeoenvironmental reconstruction, petroleum exploration, and cosmochemistry research. May be taken Satisfactory (S) or No Credit (NC) with consent of instructor and graduate advisor.

GEO 264. Biogeochemical Cycles through Time (3) Lecture, 3 hours; two to three 2-day field trips. Prerequisite(s): BIOL 010/GEO 003; CHEM 001C or equivalent; GEO 001; GEO 002; or consent of instructor. A comprehensive exploration of the major biogeochemical cycles at and near Earth’s surface. Emphasis is on microbiologically mediated cycling of elements and isotopes within diverse sedimentary environments and the cause-and-effect relationships with the ocean and atmosphere. Explores 4 billion years of biospheric evolution in light of these cycles. May be taken Satisfactory (S) or No Credit (NC) with consent of instructor and graduate advisor.

GEO 265. Special Topics in Earth and Environmental Sciences (1-3) Seminar, 1-3 hours. Prerequisite(s): graduate standing. Explores topics in earth and environmental sciences that are of broad interest and are of high educational value, which are not covered in other courses. Participants will prepare and present papers. Course is repeatable for credit, but units are not applicable toward degree unit requirements.

GEO 290. Directed Studies (1-6) Prerequisite(s): consent of instructor. Research and special studies in the geological sciences. Graded Satisfactory (S) or No Credit (NC). Course is repeatable.

GEO 297. Directed Research (1-6) Prerequisite(s): consent of instructor. Research for individual graduate students in geological sciences. Graded Satisfactory (S) or No Credit (NC). Course is repeatable.

GEO 299M. Research for Master’s Thesis (1-12) research, 3 hours per unit. Prerequisite(s): consent of instructor. Thesis research. Graded Satisfactory (S) or No Credit (NC). Course is repeatable.

GEO 299P. Research for Dissertation (1-12) research, 3 hours per unit. Prerequisite(s): consent of instructor. Research for dissertation, arranged in consultation with the staff. Graded Satisfactory (S) or No Credit (NC). Course is repeatable.

Professional Courses

GEO 301. Teaching of Geosciences at the College Level (1) Seminar, 1 hour. Prerequisite(s): graduate standing in Geological Sciences. A program of weekly meetings and individual formative evaluation required of new Teaching Assistants for Geosciences courses. Covers instructional methods and classroom/section activities most suitable for teaching Geosciences. Conducted by the Teaching Assistant Development Program. Graded Satisfactory (S) or No Credit (NC). Course is repeatable.

GEO 302. Teaching Practicum (1-4) Seminar, 1-4 hours; practicum, 2-8 hours. Prerequisite(s): restriction to those graduate students appointed as Teaching Assistants. Supervised teaching of upper and lower-division courses in Geosciences. Required of all Teaching Assistants. Graded Satisfactory (S) or No Credit (NC). Course is repeatable for credit, but units are not applicable toward degree unit requirements.

Economics

Subject abbreviation: ECON
College of Humanities, Arts, and Social Sciences

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Linda Fernandez, Ph.D. (Environmental Sciences)
Keith C. Knapp, Ph.D. (Environmental Sciences)
Roger L. Ransom, Ph.D. (History)
Kurt A. Schwab, Ph.D. (Environmental Sciences)
Henry J. Vaux, Jr., Ph.D. (Environmental Sciences)

Majors

Economics studies the production and distribution of goods and services, as well as the way in which productive activity helps shape social existence. Economists are concerned with the factors determining national income, inflation, unemployment, output, growth and inequality (macroeconomics), as well as the behavior of individual decision-making units like households and firms (microeconomics). Economists are also concerned with the role of markets, money and interest rates, the forces affecting international trade, and many other problems of production and distribution.

Economics is the basis for many careers, some of which require only a B.A. degree while others require more advanced work. Possible careers include business, government, education and law.

The B.A. is the most general degree offered in economics. It is appropriate background for a wide variety of purposes, including graduate study and professional schools. However, those planning to attend a graduate program in economics may need more quantitative training than the B.A. requires. Students who are considering attending a graduate program in economics should consult with their undergraduate advisor. The Business Economics B.A. degree provides more specific preparation for careers in business administration or management or for graduate work in business.

University Requirements
See Undergraduate Studies section.

College Requirements
See College of Humanities, Arts, and Social Sciences, Colleges and Programs section.

MATH 009A and MATH 009B may also be used to meet breadth requirements.

Major Requirements

The Economics Department offers B.A. degrees in Economics, Business Economics, Economics/Administrative Studies, and Economics/Law and Society.

Economics Major

The major requirements for the B.A. degree in Economics are as follows:

1. Lower-division requirements (4 courses [at least 16 units])
   a) ECON 002, ECON 003
The major requirements for the B.A. degree in Economics/Law and Society are as follows:

1. **Economics requirements** (11 courses (at least 44 units))
   a) ECON 002, ECON 003
   b) ECON 119
   c) ECON 102A, ECON 102B, ECON 103A
   d) Five additional upper-division courses in Economics worth 4 or 5 units each. Two 2-unit courses can replace one 4- or 5-unit elective course.

2. **Law and Society requirements** (36 units)
   a) PHIL 007 or PHIL 007H
   b) LWSO 100
   c) One course chosen from ECON 111, POSC 012, SOC 004 (or equivalent course in research methods)
   d) Three courses chosen from ANTH 127, ECON 119, HISE 153, PHIL 165, POSC 167, PSYC 175, SOC 159
   e) Two courses chosen from ENSC 174, HISA 120A, HISA 120B, HISE 123, LWSO 175 (E-Z), PHIL 164, POSC 111, POSC 166, POSC 168, POSC 186, SOC 147, SOC 149, SOC 180
   f) LWSO 193, Senior Seminar

**Note** For sections 2.d) and 2.e) combined, not more than two courses may be taken from the same department. In filling the dual requirements of the major, students may not count more than two courses toward both parts of their total requirements (This limitation applies to specified Economics requirements and Law and Society requirements.)

**Minor**
The minor in Economics provides a background in this discipline. Students take basic microeconomic and macroeconomic theory courses, and then are given freedom of choice in pursuing upper-division courses of great interest.

All candidates for the minor in Economics must take

1. **Lower-division requirements** (8 units): ECON 002, ECON 003
2. **Upper-division requirements** (at least 25 units):
   a) ECON 102A, ECON 103A
   b) Four additional upper-division courses (at least 16 units) in Economics

See Minors under the College of Humanities, Arts, and Social Sciences in the Colleges and...
Programs section of this catalog for additional information on minors.

Graduate Program

The Department of Economics offers the M.A. and Ph.D. degrees in Economics.

The graduate Economics program is designed to prepare students for research and teaching in academic institutions as well as for positions in government, international agencies, and the private sector.

Admission

Students are normally admitted only in the fall quarter. Applicants should apply electronically, at www.graduate.ucr.edu. Students submit the completed application, GRE scores, three letters of recommendation (from persons familiar with the student's academic work), and transcripts in duplicate of previous academic work.

Master's Program

Students should have first-year calculus, a course in statistics, and some background in economics before beginning course work. Students who do not meet these requirements may still be admitted but normally must take these courses as prerequisites to the required courses.

Applicants to the M.A. program must have the same academic potential as Ph.D. applicants, as reflected by GPA and GRE scores. Admission to the M.A. program does not guarantee later admission to the Ph.D. program.

Doctoral Program

The department encourages applications from a variety of backgrounds, but a good understanding of intermediate microeconomics, intermediate macroeconomics, multivariate calculus, and elementary linear algebra is necessary to begin taking the core requirements, described below. In addition, two courses in basic probability and statistics or econometrics are required before beginning the core econometrics sequence. Students who do not satisfy the requirements, or who have been out of school for several years, should consider enrolling in the one-year M.A. program.

Master's Degree

The M.A. degree is designed as a preparatory program for those students interested in pursuing the Ph.D. but who are not adequately prepared to enter the Ph.D. program directly (e.g., students who lack the necessary prerequisites in economics or mathematics who have been out of school for some time).

Doctoral Degree

The Ph.D. is the primary degree objective of the graduate program. Students first complete a core curriculum in economic theory and quantitative methods. These courses provide training in the fundamental concepts and research methods of the discipline. Following demonstration of professional competence in the core areas, students specialize in theoretical or applied areas of economics. This leads to the development of independent research and the writing of the Ph.D. dissertation.

Core Requirements

1. Economic Theory

   Students must complete the following:
   a) ECON 200A, ECON 200B, ECON 200C (Microeconomic Theory)
   b) ECON 201A, ECON 201B, ECON 201C (Macroeconomic Theory)
   c) ECON 212 (History of Economic Theory and Methodology) or ECON 213 (Methods and Themes in Economic History)

   All students must pass two cumulative examinations: one in microeconomic theory (covering topics encompassed in the course sequence ECON 200A, ECON 200B, and ECON 200C) and one in macroeconomic theory (covering the topics covered in ECON 201A, ECON 201B, ECON 201C). Both examinations are given at the end of the first year, at the beginning of the fall quarter. After completing the sequence of courses, students must sit for each examination at each offering until they have passed the requirement. An unexcused failure to sit for a required examination will be regarded as a failure. No student will be given more than three attempts to achieve a satisfactory grade on each one of the two examinations. Copies of the rules regarding these cumulative examinations are available in the department office.

2. Quantitative Methods

   Students must complete the following: ECON 205A, ECON 205B, ECON 205C (Econometric Methods I, II, III)

   To satisfy these course requirements, students must attain a “B” average in the sequences ECON 200A, ECON 200B, and ECON 200C; ECON 201A, ECON 201B, and ECON 201C; and ECON 205A, ECON 205B, and ECON 205C. They also must receive a grade of “B-” or better in ECON 212 or ECON 213. Core courses may be waived, based on equivalent graduate work completed elsewhere. The comprehensive examinations, however, may not be waived.

Colloquium Requirement

Students must enroll in at least one offering of ECON 289 (Colloquium in Economics) each quarter of their formal residence.

Field Requirement

All students must complete course work by taking one of the following options:

Option 1 Students must complete course work in two fields and pass a comprehensive field examination in the field they designate as their major field. Students must take at least three courses in each of both fields.

Option 2 Students must complete course work in one major field consisting of three courses and two fields consisting of two courses each.

Students must pass a comprehensive examination in their major field.

Field comprehensive examinations are given twice a year. No one course may be used to satisfy more than one requirement:

1. Advanced Econometrics

   Students must complete the courses a) and b) and one of the courses from c), d), e), or f) listed below.
   a) ECON 285E (Advanced Econometric Methods)
   b) ECON 285F (Topics in Econometrics)
   c) ECON 285G (Applied Econometrics)
   d) ECON 285-I (Macroeconometrics)
   e) ECON 285J (Nonparametric Econometrics)
   f) ECON 285K (Microeconometrics)

2. Advanced Macroeconomic Theory

   Students must complete the following:
   ECON 282E (Foundations of Macroeconomics)
   ECON 282F (Advanced Monetary Theory)
   ECON 282G (Special Topics in Macroeconomic Theory)

3. Advanced Microeconomic Theory

   Students must complete three of the following:
   ECON 283E (Rational Choice Theory)
   ECON 283F (Measurement and Aggregation in Economics)
   ECON 283G (General Equilibrium)
   ECON 283I (Social Choice and Welfare)
   ECON 283J (Uncertainty and Information)
   ECON 283K (Special Topics in Microeconomic Theory)

4. Advanced Political Economy

   ECON 202A (Topics in Economic Theory: Critiques and Alternative Approaches) is recommended.

   Students must complete three of the following:
   ECON 272A (Political Economy: Marxian Economics)
   ECON 272B (Political Economy: Efficiency, Justice, and Power)
   ECON 272C (Political Economy: Comparative Political Economy)
   ECON 271 (Radical Political Economy)
   ECON 279 (Political Economy: Advanced Topics)

5. Development Economics

   Students must complete three of the following:
   ECON 260 (Theories of Economic Development)
1. Master's examination covering the topics in Microeconomics or Macroeconomics

2. Doctoral cumulative examination in either microeconomic theory or macroeconomic theory (graded at the master's level)

3. Doctoral Comprehensive Examination in any of the ten fields described above (graded at the master's level)

Lower-Division Courses

ECON 001. Introduction to Economics (4) Lecture, 3 hours; discussion, 1 hour. Examines the history of economic institutions, the ideas of the great economists, and selected contemporary issues.

ECON 002. Introduction to Macroeconomics (5) Lecture, 3 hours; discussion, 1 hour; written work, 30 hours per quarter. Prerequisite(s): none. An introduction to the study of the economic system from a macro, or aggregate, perspective. Includes analysis of unemployment, inflation, and the impact of government policies on the level of economic activity. Credit is awarded for only one of ECON 002, ECON 002H, or ECON 004.

ECON 002H. Honors Introduction to Macroeconomics (5) Lecture, 3 hours; discussion, 1 hour; term paper, 3-3.5 hours. Prerequisite(s): admission to the University Honors Program or consent of instructor. Honors course corresponding to ECON 002. An introduction to the study of the economic system from a macro, or aggregate, perspective. Includes analysis of unemployment, inflation, and the impact of government policies on the level of economic activity. Satisfactory (S) or No Credit (NC) grading is not available. Credit is awarded for only one of ECON 002, ECON 002H, or ECON 004.

ECON 003. Introduction to Microeconomics (5) Lecture, 3 hours; discussion, 1 hour; written work, 3 hours. An introduction to the study of the economic system from the micro, or individual decision-maker's perspective. Includes analysis of competition, monopoly, and the distribution of income. Credit is awarded for only one of ECON 003 or ECON 004.

ECON 004. Principles of Economics (5) Lecture, 4 hours; discussion, 1 hour. Prerequisite(s): a status in pre-Business or Business Preparatory or a major in Business Administration. Studies the economic system from both the micro, or individual decision-maker's perspective, and macro, or aggregate perspective. Includes analysis of competition, monopoly, distribution of income, unemployment, inflation, and the impact of government policies on economic activity. Credit is awarded for only one of ECON 002, ECON 002H, or ECON 004 and for only one of ECON 003 or ECON 004.

ECON 005. Data Analysis for Economics and Business (5) Lecture, 3 hours; outside research, 3 hours; individual study, 3 hours. Prerequisite(s): ECON 002 (or ECON 002H), ECON 003, or ECON 004; or consent of instructor. Introduction to the sources of economic and business data and data analysis using graphs, plots, computers, and descriptive statistics. Also covers index numbers, measures of inequality, and simple regression analysis.

ECON 006. Introduction to Environmental Economics (4) Lecture, 3 hours; discussion, 1 hour. An introduction to the basic principles of economics and their application to problems of environmental quality and natural resource utilization. Emphasis is on the failure of markets as a cause of environmental degradation and the role of government in resolving problems of resource scarcity. Does not satisfy the Natural Science breadth requirement for the College of Humanities, Arts, and Social Sciences. Cross-listed with ENESC 006. Does not satisfy the Natural Science breadth requirement for the College of Humanities, Arts, and Social Sciences.
Upper-Division Courses

ECON 101. Statistics for Economics (5) Lecture, 3 hours; discussion, 1 hour; laboratory, 1 hour; individual laboratory, 2 hours. Prerequisite(s): MATH 008B or MATH 099A or MATH 099A or MATH 022 or equivalent. An introduction to the basic statistical methods for economics. Topics include economic data analysis, index numbers, univariate and bivariate probability distributions, correlation and regression, sampling distributions, properties of estimators, and hypothesis testing.

ECON 102A. Microeconomic Theory (5) Lecture, 3 hours; discussion, 1 hour; written work, 3 hours. Prerequisite(s): ECON 003 or ECON 004; MATH 008B or MATH 099A or MATH 099A or MATH 022; enrollment priority is given to Business Economics majors, Economics majors and minors, Economics/Administrative Studies majors, and Economics/Law and Society majors. A comprehensive discussion of the competitive market system, modern utility theory of consumer behavior, firm behavior in product and factor markets, and monopoly.

ECON 102B. Microeconomic Theory (5) Lecture, 3 hours; discussion, 1 hour; written work, 3 hours. Prerequisite(s): ECON 102A or consent of instructor; enrollment priority is given to Business Economics majors, Economics majors and minors, Economics/Administrative Studies majors, and Economics/Law and Society majors. A continuation of ECON 102A. Covers imperfect competition, general equilibrium, welfare economics, intertemporal decision making, uncertainty, and information.

ECON 103A. Macroeconomic Theory (5) Lecture, 3 hours; discussion, 1 hour; term paper, 3 hours. Prerequisite(s): ECON 002 or ECON 002H or ECON 004; enrollment priority is given to Business Economics majors, Economics majors and minors, Economics/Administrative Studies majors, and Economics/Law and Society majors. Discusses the theory of income, employment, price level and the role of the international economy. Introduces fiscal and monetary policy.

ECON 103B. Macroeconomic Theory (5) Lecture, 3 hours; discussion, 1 hour; term paper, 3 hours. Prerequisite(s): ECON 103A. ECON 102A is recommended; enrollment priority is given to Business Economics majors, Economics majors and minors, Economics/Administrative Studies majors, and Economics/Law and Society majors. Investigates developments in macroeconomic theory and events. Presents models that explain economic growth and business cycle fluctuations and their empirical relevance and policy implications.

ECON 107. Introductory Econometrics (5) Lecture, 3 hours; discussion, 1 hour; laboratory, 1 hour; outside research, 1 hour; written work, 1 hour. Prerequisite(s): ECON 002 or ECON 002H or ECON 003 or ECON 004; ECON 101; or consent of instructor. An introduction to the basic tools of econometrics. Focuses on the issues relating to the linear regression model, including heteroskedasticity, serial correlation, and multicollinearity.

ECON 108. Introductory Econometrics (5) Lecture, 3 hours; discussion, 1 hour; laboratory, 1 hour; written work, 1 hour; outside research, 1 hour. Prerequisite(s): ECON 107 or consent of instructor. A continuation of ECON 107. Covers, at an introductory level, the basic concepts related to logit and probit models, simultaneous equations models, dynamic time series models, unit roots and auto-regressive conditional heteroskedasticity (ARCH), and forecasting.

ECON 110. Mathematical Economics (4) Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): ECON 102A. Covers the use of mathematical tools to analyze economic problems, with emphasis on linear algebra and differential calculus. Also addresses applications to comparative statics and optimization problems.

ECON 111. Research Methods in Business and Economics (5) Lecture, 3 hours; discussion, 1 hour; term paper, 3 hours. Prerequisite(s): ECON 002 or ECON 002H or ECON 003 or ECON 004. Introduction to research methods in business and economics. Topics include the scientific method and notions of progress in science, problems of research design, data sources and data gathering techniques, the case study method, and measurement and interpretation of business and economic data.

ECON 112. Forecasting in Business and Economics (5) Lecture, 3 hours; discussion, 1 hour; laboratory, 1 hour; written work, 2 hours. Prerequisite(s): ECON 002 or ECON 002H or ECON 003 or ECON 004 or equivalent; ECON 107; or consent of instructor. Provides a basic knowledge of forecasting and its applications, particularly by using business and economic data. Covers basic methods of forecasting, such as regression methods, exponential smoothing, algorithms, and autoregressive integrated moving average (ARIMA) methods. Also explores how to combine and evaluate various forecasts. Uses computer analysis extensively.

ECON 115. Marxian Political Economy (4) Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): upper-division standing or consent of instructor. Presents models that explain economic development, macroeconomic instability, and the environment.

ECON 116. Foundations of Political Economy (4) Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): upper-division standing or consent of instructor. Explores ways of thinking about economic and social issues precluded by conventional approaches to economic analysis. Topics include the class relations between labor and capital, discrimination, market socialism, and alternative perspectives on development, macroeconomic instability, and the environment.

ECON 117. Economics and Philosophy (4) Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): ECON 102B or consent of instructor. Examines issues on the boundary of economics and philosophy. Topics include social choice theory and economic justice; foundations of utility theory, rational choice, and economic welfare; epistemology and the philosophies of science of Popper, Kuhn, and others. Cross-listed with PHIL 119.

ECON 118. The Contemporary United States Economy (4) Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): ECON 002 or ECON 002H, ECON 003 or ECON 004. Provides a broad survey of issues relating to the development of the U.S. economy and especially its contemporary structure. Incorporates issues relating to both macro- and microeconomic phenomena, with a focus on questions that are of particular relevance to current policy.

ECON 119. Law and Economics (4) Lecture, 3 hours; term paper, 3 hours. Prerequisite(s): ECON 002 or ECON 002H or ECON 003 or ECON 004 or consent of instructor. An economic analysis of legal institutions and their evolution, including the areas of property laws, contract law, tort law, and criminal law.

ECON 120. The Great Economists (4) Lecture, 6 hours; individual study, 6 hours. Prerequisite(s): upper-division standing or consent of instructor. In-depth study of selected influential writers or a school of writers on economics or political economy. Emphasis is on selected writers’ relations to other schools and other writers. Offered in summer only.

ECON 121 (E-Z). Readings in Economics (2) for hours and prerequisites, see segment descriptions. In-depth discussion of a book that is not a textbook that offers important insights into economic issues.

ECON 121E. The Wizard of Oz (2) Lecture, 15 hours per quarter; written work, 15 hours per quarter. Prerequisite(s): ECON 002 or ECON 002H, ECON 003; or ECON 004. Focuses on the Populist Movement, the rise of William Jennings Bryan’s third-party presidential bid, and the contemporary political struggle regarding management of the U.S. money supply.

ECON 121F. The Revolutions in Agricultural Biology (2) Lecture, 15 hours per quarter; individual study, 15 hours per quarter. Prerequisite(s): ECON 002 or ECON 002H, ECON 003; or ECON 004; or consent of instructor. Explores the history of biotechnology. Covers the impact on standards of living, the distribution of welfare, and the pace and pattern of economic growth. Topics include the origin of agriculture, the Columbian Exchange, the dwarfing of wheat and rice, hybrid corn, and the adoption of genetically modified crops.

ECON 121G. The Great Crash and the Great Depression (2) Lecture, 15 hours per quarter; individual study, 15 hours per quarter. Prerequisite(s): ECON 002 or ECON 002H, ECON 003; or ECON 004; or consent of instructor. Explores the history of biotechnology. Covers the impact on standards of living, the distribution of welfare, and the pace and pattern of economic growth. Topics include the origin of agriculture, the Columbian Exchange, the dwarfing of wheat and rice, hybrid corn, and the adoption of genetically modified crops.

ECON 121J. The Great Crash and the Great Depression (2) Lecture, 15 hours per quarter; individual study, 15 hours per quarter. Prerequisite(s): ECON 002 or ECON 002H, ECON 003; or ECON 004; or consent of instructor. Explores the history of biotechnology. Covers the impact on standards of living, the distribution of welfare, and the pace and pattern of economic growth. Topics include the origin of agriculture, the Columbian Exchange, the dwarfing of wheat and rice, hybrid corn, and the adoption of genetically modified crops.

ECON 121K. The Great Crash and the Great Depression (2) Lecture, 15 hours per quarter; individual study, 15 hours per quarter. Prerequisite(s): ECON 002 or ECON 002H, ECON 003; or ECON 004; or consent of instructor. Explores the history of biotechnology. Covers the impact on standards of living, the distribution of welfare, and the pace and pattern of economic growth. Topics include the origin of agriculture, the Columbian Exchange, the dwarfing of wheat and rice, hybrid corn, and the adoption of genetically modified crops.

ECON 121L. The Great Crash and the Great Depression (2) Lecture, 15 hours per quarter; individual study, 15 hours per quarter. Prerequisite(s): ECON 002 or ECON 002H, ECON 003; or ECON 004; or consent of instructor. Explores the history of biotechnology. Covers the impact on standards of living, the distribution of welfare, and the pace and pattern of economic growth. Topics include the origin of agriculture, the Columbian Exchange, the dwarfing of wheat and rice, hybrid corn, and the adoption of genetically modified crops.
ECON 124. World Economic History (4) Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): ECON 002 or ECON 002H, ECON 003, or ECON 004. Covers the economic history of the world from Paleolithic times to the present.

ECON 125. History of Economic Thought (4) Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): ECON 002 or ECON 002H, ECON 003, or ECON 004. Study of the development of major economic theories, including those of Adam Smith, Karl Marx, and John Maynard Keynes. Focus is on how alternative theories define and address economic problems differently and the policy implications that follow.

ECON 129. Health Economics (4) Lecture, 3 hours; term paper, 3 hours. Prerequisite(s): ECON 003, ECON 102A. Economic analysis of health and medical care, medical technology, and the functioning of insurance markets. Emphasis is on behaviors of insurance companies, physicians, and the pharmaceutical industry. Major concerns include the rising cost of health care, government involvement, and health care reform.

ECON 130. Introduction to Money, Banking, and Credit (5) Lecture, 3 hours; discussion, 1 hour; term paper, 3 hours. Prerequisite(s): ECON 103A. Covers the basic theories of modern monetary systems; money, credit, and interest rate behavior; financial intermediation and central banking; and methods and objectives of monetary and regulatory policy.

ECON 132. Public Finance (4) Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): ECON 102A, ECON 103A; BUS 106/ECON 134 or ECON 130 is recommended. Covers functions of government in a market economy: distributive equity, taxation, spending, borrowing, and debt management. Addresses promotion of capital formation, full employment, stability, and efficient resource use as well as intergovernmental relations.

ECON 134. Financial Theories and Markets (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): ECON 003 or ECON 004; upper-division standing; BSAD 020A and BSAD 020B are recommended. Covers the foundation materials for both corporate financial management, and investment and portfolio analysis. Topics include time value of money, capital budgeting, capital structure, dividend policy, portfolio theory, Capital Asset Pricing Model, and market efficiency. Cross-listed with BUS 106.

ECON 135. The Stock Market (5) Lecture, 3 hours; discussion, 1 hour; written work, 3 hours. Prerequisite(s): ECON 002 or ECON 002H, ECON 003, or ECON 004. ECON 103A is strongly recommended. An analysis of the history of the stock market and its role in the macroeconomy. Topics include factors governing stock prices, fundamental and technical analysis, the impact of inflation and interest rates, international investing, and the role of social institutions in the determination of stock prices.

ECON 136. Empirical Financial Economics (4) Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): ECON 107 or consent of instructor. Discusses various empirical aspects of financial economics and financial risk management. Addresses both theoretical and applied issues in finance, risk management, and econometrics. Also discusses quantitative analysis, simulation methods, and case studies.

ECON 143A. Environmental Economics (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): ECON 003 or ECON 004 or equivalent, MATH 022 or equivalent; or consent of instructor. Introduction to economic analysis of natural resources and the environment with emphasis on environmental quality. Topics include environmental interactions and social choice theory; source control costs, damage valuation, and efficient pollution control; and design of efficient and equitable environmental policy. Cross-listed with ENSC 143A.

ECON 143B. Natural Resource Economics (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): ECON 143A/ENSC 143A or consent of instructor. Considers the extraction and use of natural resources. Topics include land use and natural capital economics and valuation; economics of mineral and nonrenewable resources including recycling; and managing biological and renewable resources, including common property, efficient usage, and regulation. Cross-listed with ENSC 143B.

ECON 143C. Ecological Economics and Environmental Valuation (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): ECON 143A/ENSC 143A or consent of instructor. Survey of environmental valuation and economic-wide, long time-scale issues. Valuation methods covered include hedonic pricing, weak complements, contingent valuation, and ecosystem services. Environmental macroeconomic topics include population growth, biophysical constraints to economic growth, intertemporal welfare and sustainability, and sustainable development. Cross-listed with ENSC 143C.

ECON 146. Urban Economic Problems (4) Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): ECON 102A. The application of economic principles to the major problems of the modern urban community, such as poverty, discrimination, deterioration of the environment, and housing problems. Programs for alleviation or solution. Cross-listed with URST 146.

ECON 148. Land and Resource Economics (4) Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): ECON 102A. Distinctive qualities of land and its rent; valuation of land as an investment. Assembly, division, and development of land; efficiency of land markets, and effects of taxation. Concentrated ownership, separation of ownership and management, rent and tax surplus, and origins and kinds of tenure.

ECON 152. Economics of Labor Relations (4) Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): ECON 002 or ECON 002H, ECON 003, or ECON 004. An analysis of the history of labor and industrial relations in the U.S. with emphasis on problems of collective action, long-run issues of economic growth, income inequality, and the role of government. Cross-listed with BUS 152.

ECON 153. Labor Economics (4) Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): ECON 102A. An analysis of labor demand, labor supply, and the structure of wages. Emphasizes neoclassical, institutional, and radical perspectives. Cross-listed with BUS 153.

ECON 155. Women's Labor and the Economy (4) Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): ECON 003 or ECON 004. Focuses on economic analyses of four topics: women's work in and out of the paid labor force; gender differences in occupation, earnings, and income; marriage, divorce, and childbearing; and public policy regarding women's work and standard of living. Explores differences among women by race, ethnicity, class, marital status, and parental responsibilities. Cross-listed with WMST 155.

ECON 156. Population Dynamics and Economic Well-being (4) Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): ECON 002, ECON 003. Examines the causes and consequences of population dynamics. Economic models of such demographic behavior as fertility, mortality, marriage, and migration are presented. Consequences of population change for economic growth, the environment, and well-being are discussed.

ECON 159. Economics of Art, Entertainment, and Culture (4) Lecture, 3 hours; extra reading, 3 hours. Prerequisite(s): ECON 002 or ECON 002H or ECON 003 or consent of instructor. Overview of the economic aspects of art, entertainment and culture. Topics include consumer demand for culture, economic models of nonprofit organizations, competition and market structure in the arts and entertainment industries, copyright issues, public support of the arts, and the role and impact of public and private subsidies.

ECON 160. Industrial Organization (4) Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): ECON 102A. A study of the organization and structure of the American industrial system with emphasis on its production and pricing behavior and policies, and its market structure and public policies regulating or influencing its market behavior. Cross-listed with BUS 160.

ECON 162. Managerial Economics (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): ECON 102A. Examines applications of economic analysis to problems of management, especially of capital. Emphasis is on production economics and cost analysis. Cross-listed with BSAD 162.

ECON 163. Economics and Business Strategy (4) Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): ECON 102A. Provides an understanding of the basic concepts of game theory as well as many strategic interactions, including price wars, cooperation, commitment, bargaining, and the strategic use of information.

ECON 170 (E-Z). Case Studies in Economic Development (2) for hours and prerequisites, see segment descriptions. A detailed study of the history, problems and prospects of economic development in a selected geographical region.

ECON 170E. Economic Development in India (2) Lecture, 15 hours per quarter; written work, 15 hours per quarter. Prerequisite(s): ECON 102A or consent of instructor. A detailed study of the history, problems and prospects of economic development in India.

ECON 170F. Economic Development in Australia (2) Lecture, 15 hours per quarter; individual study, 15 hours per quarter. Prerequisite(s): ECON 002 or ECON 002H, ECON 003; or ECON 004. Discusses Australian economic development from the first European settlements to the present day. Focus is on Australia as a “settler economy,” created through a process of large-scale migration from well-established states to a land-abundant, previously unorganized region and involving the marginalization of the indigenous population.

ECON 171. International Finance (4) Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): ECON 103A. Covers international monetary theory and its applications. Topics include balance of payments, exchange rates, open-economy macroeconomics, and international monetary institutions. Addresses selected policy issues.

ECON 175. Comparative Analysis of Economic Systems (4) Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): upper-division standing or con-
sent of instructor. Examines the varieties of capitalism as well as its characteristic features and systematic problems. Topics also include the search for an alternative; central planning; and market socialism.

ECON 178. International Trade (4) Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): ECON 102A. A study of the pure theory of trade, trade policy, and international factor movements including illustrative applications to current issues and problems. Cross-listed with BUS 178.

ECON 180. Transition from Socialism to Capitalism (4) Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): ECON 002 (or ECON 002H), ECON 003, or ECON 004; or consent of instructor. Examines the transition from central planning to a more market-oriented economic system in Central and Eastern Europe, the countries of the former Soviet Union, China, Malaysia, and Vietnam. Evaluates alternative transition strategies using Russia and China as the key examples.

ECON 181. Economic Development: Theory and Policy (4) Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): ECON 002 or ECON 002H, ECON 003, or ECON 004. A survey of the main theories of economic development and an analysis of the major development strategies and policies.

ECON 182. Trade, Globalization, and Development (4) Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): ECON 102A. Explores the theory of comparative advantage as a guide to development policy. Discusses trade regimes and their effects on development. Analyzes the nature and consequences of the globalization of the world economy.

ECON 183. Population and Development (4) Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): ECON 102A and ECON 107 or consent of instructor. Study of interactions between population growth and economic development. Topics include the history of demographic thought; lessons for developing countries from the demographic experience of currently-developed countries; household production models, demand for children, mortality, health and nutrition, migration, and human capital; and macroeconomic economic-demographic linkages in developing countries.

ECON 184. Economic Development in Africa (4) Lecture, 3 hours; extra reading, 1 hour; written work, 1 hour; term paper, 1 hour. Prerequisite(s): ECON 102A or ECON 103A; ECON 107; or consent of instructor. Examines major current issues in development economics, focusing on Sub-Saharan Africa.

ECON 185. Economic Development in Latin America (4) Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): ECON 102A or ECON 103A. A comparative analysis of the major trends in Latin American economies in the twentieth century. Topics include historical legacies, primary export economies, the theory and practice of import substitution industrialization, the debt crisis, stabilization and structural adjustment, poverty and income distribution, the informal sector, the agricultural sector, and the environment. Cross-listed with LNST 185.

ECON 187. Contemporary Public Policy Challenges in Latin America (4) Lecture, 3 hours; individual study, 3 hours. Prerequisite(s): ECON 002 or ECON 002H or ECON 003 or ECON 004 or consent of instructor. A survey of the wide-sweeping policy reforms since the 1980s and of contemporary public policy challenges in Latin America. Challenges discussed include extremely high levels of poverty and inequality, inadequate educational and healthcare systems, pressures for land reform, problems of trade competitiveness, and recurring currency crises. Cross-listed with LNST 187.

ECON 190. Special Studies (1-5) Course is repeatable to a maximum of 12 units.

ECON 193A. Senior Seminar (4) Seminar, 3 hours; individual study, 3 hours. Prerequisite(s): senior standing; ECON 102A, ECON 102B, ECON 103A, ECON 103B. Advanced research in various fields of faculty interest. Students complete a research paper and present their results in the seminar. Topics vary from year to year. Graded In Progress (IP) until ECON 193A and ECON 193B are completed, at which time a final grade is assigned.

ECON 193B. Senior Seminar (4) Seminar, 3 hours; individual study, 3 hours. Prerequisite(s): senior standing; ECON 193A. Advanced research in various fields of faculty interest. Students complete a research paper and present their results in the seminar. Topics vary from year to year.

ECON 198-I. Individual Internships in Economics (1-12) Prerequisite(s): junior standing with major in Economics and consent of instructor (to be obtained before pre-enrollment). Active participation in the work of a public or quasi-public agency or business concern in matters relating to general or business economics. The student spends approximately 10 hours each week with such an employer. A summary paper is required. One unit for every three hours spent in internship. Open to majors on a Satisfactory (S) or No Credit (NC) basis.

ECON 199H. Senior Honors Research (1-4) Outside research, 1-12 hours. Prerequisite(s): senior standing; Honors Program or consent of instructor. Offers the opportunity for directed research at an honors level. Satisfactory (S) or No Credit (NC) grading is not available. Course is repeatable to a maximum of 12 units.

Graduate Courses

ECON 200A. Microeconomic Theory (5) Lecture, 4.5 hours; discussion, 1.5 hours. Prerequisite(s): ECON 102A or ECON 103A; ECON 107; or consent of instructor. Examines major current issues in development economics, focusing on Sub-Saharan Africa.

ECON 200B. Microeconomic Theory (5) Lecture, 4 hours; discussion, 1 hour. Prerequisite(s): ECON 102A, ECON 102B, or equivalents. Focuses on consumer and producer theory under conditions of certainty. Covers mathematics required, including real analysis and static optimization theory. May be taken Satisfactory (S) or No Credit (NC) with consent of instructor and graduate advisor.

ECON 200B. Microeconomic Theory (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): ECON 200A or equivalent. Focuses on decision making under uncertainty, economics of information, applications of game theory, and models of imperfect competition.

ECON 200C. Microeconomic Theory (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): ECON 200B or equivalent. Focuses on general equilibrium theory, including existence and stability, and on welfare economics and social choice.

ECON 201A. Macroeconomic Theory (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): ECON 103A, ECON 103B, or equivalents; ECON 200A (may be taken concurrently). Examines the basic issues and models of macroeconomics.

ECON 201B. Macroeconomic Theory (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): ECON 201A or equivalent. Covers the theory and methods of environmental economics. Topics include externalities theory; bargaining solutions, property rights, and resource allocation mechanisms; environmental policy under uncertainty and asymmetric information; and dynamic and general equilibrium models of environmental quality.

ECON 201C. Macroeconomic Theory (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): ECON 201B or equivalent. Examines the theory and methods of environmental economics. Topics include externalities theory; bargaining solutions, property rights, and resource allocation mechanisms; environmental policy under uncertainty and asymmetric information; and dynamic and general equilibrium models of environmental quality.

ECON 201D. Macroeconomic Theory (4) Lecture, 3 hours; discussion, 1 hour. Prerequisite(s): ECON 201B or equivalent. Examines the theory and methods of environmental economics. Topics include externalities theory; bargaining solutions, property rights, and resource allocation mechanisms; environmental policy under uncertainty and asymmetric information; and dynamic and general equilibrium models of environmental quality.
including historical materialism, the role of value, class, exploitation, and accumulation in Marxian economics, and a survey of current debates on these issues.

ECON 272B. Political Economy: Efficiency, Justice, and Power (4) Seminar, 3 hours; individual study, 3 hours. Prerequisite(s): graduate standing or consent of instructor. Covers the various notions of efficiency used in political economic analysis, as well as their application in historical and comparative institutional contexts. Theories of justice in the distribution of rewards and the extent to which efficiency is separable from justice. Different notions of how power influences economic outcomes.

ECON 272C. Political Economy: Comparative Political Economy (4) Seminar, 3 hours; individual study, 3 hours. Prerequisite(s): graduate standing or consent of instructor. Explores economic institutions and various methodological approaches to economics from a comparative perspective. Topics include types of capitalism (market-oriented, welfare-state, and the East Asian model), transitional economies, and market socialism. Institutional, socioeconomic, and radical political economy approaches to economic analysis are also discussed.

ECON 279. Political Economy: Advanced Topics (4) Seminar, 3 hours; individual study, 3 hours. Prerequisite(s): graduate standing or consent of instructor. Topics in the methodology and theory of political economy. Course is repeatable to a maximum of 8 units.

ECON 282 (E-Z). Advanced Macroeconomic Theory (4) Seminar, 3 hours; outside research, 3 hours. Prerequisite(s): passing grade on the Macroeconomics Cumulative Examination or consent of instructor. Covers advanced topics in macroeconomic theory. Students read state-of-the-art research papers and books. Includes presentations by students and faculty. E. Foundations of Macroeconomics; F. Advanced Monetary Theory; G. Special Topics in Macroeconomic Theory. ECON 282Q is repeatable to a maximum of 8 units.

ECON 283 (E-Z). Advanced Microeconomic Theory (4) Seminar, 3 hours; outside research, 3 hours. Prerequisite(s): passing grade on the Microeconomics Cumulative Examination or consent of instructor; for ECON 283M, ECON 283N, ECON 283P, ECON 283Q, ECON 283R: ECON 200C. Covers advanced topics in microeconomic theory. Involves reading recent research papers and books, and presentations by students and faculty. E. Rational Choice Theory; F. Measurement and Aggregation in Economics; G. General Equilibrium; I. Social Choice and Welfare; J. Uncertainty and Information; K. Special Topics in Microeconomic Theory; M. The Microtheoretic Bases of Development Economics; N. Applications of Games and Information Economics; O. Measurement of Productivity and Efficiency; P. Public Economic Theory; Q. Economics of Contract: Theory and Applications; R. Measurement of the Standard of Living, Inequality, and Deprivation. ECON 283K is repeatable to a maximum of 8 units.

ECON 285 (E-Z). Advanced Econometrics (4) Seminar, 3 hours; outside research, 3 hours. Prerequisite(s): ECON 205A, ECON 205B, ECON 205C; or consent of instructor. Advanced topics and recent developments in econometrics. State-of-the-art research papers and books are read, and presentations are made by students as well as faculty. E. Advanced Econometric Methods; F. Topics in Econometrics; G. Applied Econometrics; H. Nonparametric Econometrics; K. Microeconometrics. ECON 285F is repeatable to a maximum of 8 units.

ECON 289. Colloquium in Economics (2) Seminar, 1.5 hours; written work, 1.5 hours. Prerequisite(s): graduate standing. Lectures and discussion by students, faculty and invited scholars on specially selected topics. Graded Satisfactory (S) or No Credit (NC). Course is repeatable as content changes.

ECON 290. Directed Studies (1-6) Prerequisite(s): graduate standing and consent of instructor. Directed studies of selected problems of economic analysis. Open to graduate students who desire to do special work in a particular field. Graded Satisfactory (S) or No Credit (NC). Course is repeatable.

ECON 291. Individual Study in Coordinated Areas (1-12) Outside research, 3-36 hours. A program of study designed to advise and assist candidates who are preparing for examination. Graded Satisfactory (S) or No Credit (NC). Repeatable as follows: (1) a student may take up to 12 units prior to the award of the M.A. (these 12 units do not count toward the required M.A. units); (2) a student may take up to 18 additional units after award of the M.A. but prior to successful completion of the Ph.D. qualifying examination.

ECON 292. Concurrent Analytical Studies (2-4) Lecture, 1-3 hours; outside research, 6-12 hours. Prerequisite(s): consent of instructor. Each 292 course will be taken concurrently with some 100-series course, but on an individual basis. It will be devoted to completion of a graduate paper based on research or criticism related to the 100-series course. Faculty guidance and evaluation will be provided through the quarter. Graded Satisfactory (S) or No Credit (NC). May be repeated for credit.

ECON 297. Directed Research (1-6) Prerequisite(s): graduate standing and consent of instructor. Directed research on selected problems in economics. Designed for graduate students who have not yet passed their qualifying examinations. Graded Satisfactory (S) or No Credit (NC). Course is repeatable.

ECON 299. Research for Thesis or Dissertation (1-12) Prerequisite(s): graduate standing and consent of instructor. Research in economics under the direction of a staff member to be included as part of the doctoral dissertation. Graded Satisfactory (S) or No Credit (NC). Course is repeatable.

Professional Course

ECON 302. Teaching Practicum (1-4) Practicum, 3-11 hours; seminar, 1 hour. Prerequisite(s): limited to department TAs; graduate standing. Supervised teaching in upper- and lower-division courses. Required of all economics teaching assistants. Graded Satisfactory (S) or No Credit (NC). May be repeated for credit.

Education

Subject abbreviation: EDUC Graduate School of Education

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Programs and Courses