

**493 Professional Internship in Crop and Soil Sciences**  
 Fall, Spring, Summer. 3 credits. A student may earn a maximum of 6 credits in all enrollments for this course. R: Approval of department; application required. A student may earn a maximum of 6 credits for any or all of these courses: ABM 493, AEE 493, ANR 493, ANS 493, CSS 493, EEP 493, FIM 493, FW 493, HRT 493, PKG 493, PLP 493, PRR 493, and RD 493.

Supervised professional experiences in agencies and businesses related to Crop & Soil Sciences and Environmental Soil Sciences

**494 International Agriculture Seminar**  
 Spring of odd years. 1(1-0) A student may earn a maximum of 3 credits in all enrollments for this course. P:M: Completion of Tier I writing requirement.

Global food, soil and water resources issues.

**499 Undergraduate Research**  
 Fall, Spring, Summer. 3(0-9) R: Approval of department; application required.

Faculty supervised research in a selected area of crop and soil sciences or environmental soil science.

## ECONOMICS EC

### Department of Economics College of Social Science

**201 Introduction to Microeconomics**  
 Fall, Spring, Summer. 3(3-0) Not open to students with credit in EC 251H.

Economic institutions, reasoning and analysis. Consumption, production, determination of price and quantity in different markets. Income distribution, market structure and normative analysis.

**201T Introduction to Microeconomics**  
 Fall, Spring. 3(2-2) Not open to students with credit in EC 201 or EC 251H.

Microeconomic reasoning and analysis. Determination of price and quantity in different markets. Income distribution, market structure, and normative analysis. Extensive use of computer exercises and internet technology.

**202 Introduction to Macroeconomics**  
 Fall, Spring, Summer. 3(3-0) Not open to students with credit in EC 252H.

Determinants of Gross National Product, unemployment, inflation and economic growth. National income accounting and fiscal policy. Aggregate demand, supply management and monetary policy.

**210 Economics Principles Using Calculus**  
 Fall. 3(3-0) P:M: (MTH 133 or MTH 153H or MTH 126) Not open to students with credit in EC 201 or EC 202.

A combined microeconomics and macroeconomics course. Emphasis on topics of interest in engineering and management, such as discounting, cost-benefit analysis, innovation, externalities, and the role of government regulation.

**251H Microeconomics and Public Policy**  
 Fall, Spring. 4(4-0) Not open to students with credit in EC 301.

Theories of consumer behavior, production and cost. Output and price determination in competition and monopolies. Welfare economics, general equilibrium, externalities, and public goods.

**252H Macroeconomics and Public Policy**  
 Fall, Spring. 3(3-0) P:M: (EC 201 and EC 301) or (EC 251H) Not open to students with credit in EC 302.

Theory of national income, unemployment, inflation and economic growth and its application to economic analysis and policy.

**293 Cooperative Education for Business Students**

Fall, Spring. 1(1-0) A student may earn a maximum of 3 credits in all enrollments for this course. Interdepartmental with Marketing and Supply Chain Management; Accounting; Finance; Management; Hospitality Business. Administered by Department of Marketing and Supply Chain Management. R: By permission of the Department only.

Integration of pre-professional educational employment experiences in industry and government with knowledge and processes taught in the student's academic program. Educational employment assignment approved by the Department of Marketing and Supply Chain Management.

**301 Intermediate Microeconomics**  
 Fall, Spring, Summer. 3(3-0) P:M: (EC 201) RB: (EC 202) Not open to students with credit in EC 251H.

Theories of consumer choice, production, cost, perfect competition, and monopoly. Welfare economics, general equilibrium, externalities and public goods.

**302 Intermediate Macroeconomics**  
 Fall, Spring, Summer. 3(3-0) P:M: (EC 201 and EC 202) Not open to students with credit in EC 252H.

National income accounting. Determination of aggregate output, employment, price level, and inflation rate. Policy implications.

**306 Comparative Economic Systems**  
 Fall. 3(3-0) P:M: (EC 201 or EC 251H) and (EC 202 or EC 252H)

Characteristics and functions of economic systems. Alternative patterns of economic control, planning, and market structure. Theories, philosophies, and experiences associated with capitalism, socialism, and mixed economies.

**310 Economics of Developing Countries**  
 Spring. 3(3-0) P:M: (EC 201 or EC 251H)

Overview of economic patterns and policy issues of developing countries such as modern economic growth and structural transformation, state controls versus markets, poverty and human welfare, investments in human resources, and trade and industrialization.

**320 Analysis of Economic Data**  
 Fall, Spring. 3(3-0) P:M: (EC 201 or EC 251H) and (EC 202 or EC 252H) R: Not open to students in the Department of Accounting or Department of Finance or School of Hospitality Business or Department of Management or Department of Marketing and Supply Chain Management.

Sources of economic data. Techniques for presenting and summarizing economic data. Testing theories of economic behavior. Methods for forecasting in uncertain economic environments. Evaluation of current quantitative work in economics.

**330 Money, Banking, and Financial Markets**  
 Fall, Spring, Summer. 3(3-0) P:M: (EC 201 or EC 251H) and (EC 202 or EC 252H)

Money markets and financial intermediation. Money, the Federal Reserve System, and monetary policy. Regulation of money markets.

**335 Taxes, Government Spending and Public Policy**  
 Fall, Spring, Summer. 3(3-0) Interdepartmental with Environmental Economics and Policy. P:M: (EC 201 or EC 251H) SA: PRM 335 Not open to students with credit in EC 435 or EC 436.

Economics of the public sector. Public goods, externalities, design and incidence of the tax system. Equity and efficiency effects of government programs.

**340 Survey of International Economics**  
 Fall, Spring, Summer. 3(3-0) P:M: (EC 201 or EC 251H) and (EC 202 or EC 252H) Not open to students with credit in EC 440 or EC 441.

Comparative advantage. Costs and benefits of trade. International economic policies. Balance of payments. Foreign exchange markets. The international monetary system. Contemporary trade and international currency issues.

**360 Private Enterprise and Public Policy**  
 Fall, Spring, Summer. 3(3-0) P:M: (EC 201 or EC 251H)

Effects of antitrust, economic regulation, and other public policies on competition, monopoly, and other market problems in the United States economy.

**380 Labor Relations and Labor Market Policy**  
 Fall, Spring, Summer. 3(3-0) P:M: (EC 201 or EC 251H)

Development, functions, legal framework, and economic effects of unions and collective bargaining. Institutions and economic impacts of government programs. Minimum wages, workers' compensation, unemployment insurance, and antidiscrimination policies.

**385 International Labor Market Policy and Labor Relations**  
 Fall. 3(3-0) P:M: (EC 201 or EC 251H) Not open to students with credit in EC 380.

Comparative treatment of labor policy and labor relations in the United States, Western Europe, Japan, Canada, and Australia. Analysis of how different policies affect wages, living standards, and economic efficiency. Labor markets and integration of national economies.

**391 Special Topics in Economics**  
 Fall, Spring. 3(3-0) P:M: (EC 201 or EC 251H) and (EC 202 or EC 252H)

Special topics supplementing regular course offerings.

**401 Advanced Microeconomics**  
 Fall, Spring. 3(3-0) P:M: (EC 301 or EC 251H)

Economics of uncertainty and incomplete information. Game theory and theories of oligopoly. Transaction costs. Advanced topics in welfare economics, general equilibrium, externalities, and public goods.

**402 Advanced Macroeconomics**  
 Fall, Spring. 3(3-0) P:M: (EC 251H or EC 301) and (EC 252H or EC 302)

Consumption, investment, and monetary theories. The role of expectations. Theories of economic growth and cycles. Stabilization policies.

## Economics—EC

- 405 The Development of the American Economy**  
Spring. 3(3-0) P:M: (EC 201 or EC 251H) and (EC 202 or EC 252H)  
Causes and consequences of American economic development. Economic analysis of topics such as British trade policies, slavery, industrialization, immigration, the Great Depression, wars and income distribution.
- 406 Economic Analysis of Russia and the Commonwealth of Independent States**  
Spring of even years. 3(3-0) P:M: (EC 201 or EC 251H) and (EC 202 or EC 252H)  
Analysis of structure and performance of planning, transition economy, and post-transition economy in Russia and the commonwealth of independent states (CIS) with focus on micro foundations of macroeconomic outcomes.
- 410 Issues in the Economics of Developing Countries**  
Fall. 3(3-0) P:M: (EC 201 or EC 251H) and (EC 202 or EC 252H)  
Topics in development economics, such as growth, technological change, structural transformation, poverty and inequality, investment in human resources, trade, international capital flows and the political economy of policy formation and governance.
- 412 Economic Analysis of Latin America**  
Fall of even years. 3(3-0) RB: (EC 201 or EC 251H) and (EC 202 and EC 252H)  
Population growth, agriculture, and urbanization. Dependence on primary exports and import protection. Inequality and populist-orthodox policy cycles. Hyper-inflation, international debt crises, and adjustments. United States policy interests and interventions.
- 413 Economic Analysis of Asia**  
Spring of odd years. 3(3-0) P:M: (EC 201 or EC 251H) and (EC 202 or EC 252H)  
Development of agriculture, industry, labor markets, and trade in some of the following: India and South Asia, China, the Pacific Rim countries, and Japan. Productivity, income distribution, finance, and planning.
- 414 Economic Analysis of Sub-Saharan Africa**  
Fall of odd years. 3(3-0) P:M: (EC 201 or EC 251H) and (EC 202 or EC 252H)  
African economic development in historical perspective. Contemporary development issues including agricultural policies, industrial development, foreign trade and aid, human resource investments, AIDS, and the political economy of economic and political policies and reforms.
- 420 Introduction to Econometric Methods**  
Fall, Spring. 3(3-0) P:M: (EC 201 or EC 210 or EC 251H) and (EC 202 or EC 252H) and (STT 315 or STT 421 or STT 430 or STT 441)  
Specification, estimation, and interpretation of econometric models. Evaluation of current quantitative work in economics.
- 425 Law and Economics**  
Fall. 3(3-0) Interdepartmental with Finance. P:M: (EC 201 or EC 251H)  
Application of economic analysis to the law. Property rights, takings, the Coase Theorem. The economics of regulation, crime and punishments, liability law, and public choice.
- 435 Public Expenditures**  
Fall. 3(3-0) P:M: (EC 251H or EC 301)  
Expenditure theory. Objectives and rationale of government activity in the market system. Efficiency criteria in government decision-making. Public choice. Cost benefit analysis.
- 436 Public Revenues**  
Spring. 3(3-0) P:M: (EC 251H or EC 301)  
Principles and theory of efficiency and the incidence of taxation. Income and sales taxes and other major revenue sources.
- 440 International Trade**  
Fall. 3(3-0) P:M: (EC 251H or EC 301)  
Neoclassical and modern theories regarding trade patterns and commercial policies. Applications of theory to United States policy. Contemporary issues involving international trade of goods, services, and productive factors.
- 441 International Finance**  
Spring. 3(3-0) P:M: (EC 252H or EC 302)  
Neoclassical and modern theories pertaining to balance of payments and exchange rate determination. Macroeconomic performance under alternative exchange rate regimes. Contemporary issues involving international monetary arrangements.
- 453 Women and Work: Issues and Policy Analysis**  
Spring. 3(3-0) Interdepartmental with Environmental Economics and Policy; Women's Studies. Administered by Department of Agricultural Economics. RB: (EC 201 or EC 202 or EEP 201 or concurrently) R: Not open to freshmen or sophomores.  
Current and past quantity and quality of women's participation in the labor force. Gender differentials in earnings and occupations. Employment discrimination. Laws, especially affirmative action laws. Social policy effects. International issues.
- 460 American Industry: Structure and Behavior**  
Fall, Spring. 3(3-0) P:M: (EC 251H or EC 301)  
Market structure and performance. Empirical analysis of market definition, concentration, product differentiation, vertical integration, innovativeness, collusion, and entry deterrence.
- 480 Analysis of Labor Markets**  
Fall, Spring. 3(3-0) P:M: (EC 251H or EC 301) and (EC 201 or EC 251H)  
Labor supply and demand. Human capital, search, migration, and labor turnover. Analysis of unemployment and wage growth. Structure of wages, including economics of discrimination.
- 489 Senior Seminar for Policy and Applied Economics Majors (W)**  
Fall. 3(3-0) P:M: (EC 251H or EC 301) and (EC 320) and completion of Tier I writing requirement. R: Open only to seniors in the Policy and Applied Economics major.  
Capstone course for policy and applied economics majors. Reading and discussion concerning selected economics topics. Preparation and presentation of student research project.
- 490 Independent Study**  
Fall, Spring, Summer. 1 to 3 credits. A student may earn a maximum of 3 credits in all enrollments for this course. R: Approval of department.  
Research and reading course for students interested in doing independent work in economics under faculty supervision.
- 491 Advanced Topics in Economics**  
Fall, Spring. 3(3-0) P:M: (EC 301 or EC 251H) and (EC 302 or EC 252H) and (MTH 124 or MTH 132 or MTH 152H)  
Advanced work in specialized topics of economics.
- 495 Economics of Poverty and Income Distribution**  
Fall. 3(3-0) P:M: (EC 201 or EC 251H)  
Theory of the distribution of income and wealth. Concepts and measurement of welfare. Definitions of poverty. Effects of public and private programs on the poor.
- 498 Economics of Health Care**  
Fall of odd years. 3(3-0) RB: (EC 201 or EC 251H)  
Economic factors in determining health care costs, utilization, quality, and efficiency. Demand and insurance. Comparative health care systems. Public policy issues.
- 499 Senior Seminar for Economics Majors (W)**  
Fall, Spring. 3(3-0) P:M: (EC 251H or EC 301) and (EC 252H or EC 302) and (EC 420 or concurrently) and completion of Tier I writing requirement. R: Open only to seniors in Economics.  
Capstone course for economics majors. Reading and discussion concerning selected economics topics. Preparation and presentation of student research project.

## EDUCATIONAL ADMINISTRATION EAD

### Department of Educational Administration College of Education

- 315 Student Leadership Training**  
Fall, Spring. 3(2-2)  
Student leadership role, skills, and technique, consistent with the principles and demands of a democratic multicultural society.
- 451 Models of Special Education Administration and Services**  
Spring. 3(2-2) Interdepartmental with Counseling, Educational Psychology and Special Education. Administered by Department of Counseling, Educational Psychology, and Special Education. R: Open only to students admitted to the teacher certification program in emotional impairment or learning disabilities or to master's students in the Special Education major.  
Application of theory and research to special education program design and implementation.