930. Advanced Forest Genetics Fall or odd-numbered yrs. 2(1-2) Interdepartmental with Forestry and Horticulture. Administered by Forestry. P: HRT 419 or HRT 836. Applications of genetics, plant breeding, and biotechnology to the improvement and preservation of diversity of tree species.

940. Advanced Soil Physics Fall of even-numbered yrs. 3(2-0) P: CSS 440. R: Open only to graduate students in College of Agriculture and Natural Resources, College of Engineering, or College of Natural Science. Modelling major physical transport mechanisms in the soil profile. Aeration, temperature and solute movement. Water movement and evaporation. 

941. Quantitative Genetics in Plant Breeding Spring of even-numbered yrs. 3(3-0) Interdepartmental with Forestry and Horticulture. P: CSS 450; STT 422. Theoretical genetic basis of plant breeding with emphasis on traits exhibiting continuous variation. Classical and contemporary approaches to the study and manipulation of quantitative trait loci.


990. Doctoral Dissertation Research Fall, Spring, Summer. 1 to 24 credits. A student may earn a maximum of 99 credits in all enrollments for this course. R: Open only to doctoral students in Crop and Soil Sciences.

ECONOMICS ES

Department of Economics

The Eli Broad College of Business and The Eli Broad Graduate School of Management

201. Introduction to Microeconomics Fall, Spring, Summer. 3(3-0) R: 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.

202. Introduction to Macroeconomics Fall, Spring, Summer. 3(3-0) R: 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: MTH 133 or MTH 131SL or MTH 126. R: 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 business, such as discounting, cost-benefit analysis, innovation, externalities, and the role of government regulation.

251H. Microeconomics and Public Policy Fall, Spring, 4(4-0) R: Not open to students with credit in EC 301. Theories of consumer behavior, production and cost. Output and price determination in competition and monopoly. Welfare economics, general equilibrium, externalities, and public goods.

252H. Macroeconomics and Public Policy Fall, Spring, Summer. 3(3-0) P: EC 251H or EC 201, EC 301. R: 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.

301. Intermediate Microeconomics Fall, Spring, Summer. 3(3-0) P: EC 201, EC 202. R: 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.


303. Economic Thought I Fall, Summer. 3(3-0) P: EC 201 or EC 251H; EC 202 or EC 252H. Forerunners of classical economics. Classical economic thought from Adam Smith to J.S. Mill. The socialist reaction. SA: EC 403

304. Economic Thought II Spring, 3(3-0) P: EC 201 or EC 251H; EC 202 or EC 252H. Decline of classical economics and rise of marginalist value and distribution theory. Marxism and institutionalism. SA: EC 404

306. Comparative Economic Systems Fall. 3(3-0) P: EC 201 or EC 251H, 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: EC 201 or EC 251H. Overview of economic patterns and policy issues of developing countries such as economic growth and structural transformation, state control versus markets, poverty and human welfare, investments in human resources, and trade and industrialization.

330. Money, Banking, and Financial Markets Fall, Spring, Summer. 3(3-0) P: EC 201 or EC 251H; 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 Public Resource Management. P: EC 201, EC 251H; Not open to students with credit in EC 455 or EC 456. 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: EC 201 or EC 251H; 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.

350. Private Enterprise and Public Policy Fall, Spring, Summer. 3(3-0) P: 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.


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

401. Advanced Microeconomics Fall, Spring. 3(3-0) P: 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.