

## **ECO Economics**

### **ECO 101 CONTEMPORARY ECONOMIC ISSUES. (3)**

A basic course in the analysis of contemporary economic issues with emphasis on current economic topics such as inflation, poverty and affluence, urban congestion, and environmental pollution. (Credit will not be given for this course to students who have received prior credit in ECO 201 and/or 202, and/or ECO 260 and/or 261.)

### **ECO 201 PRINCIPLES OF ECONOMICS I. (3)**

The study of the allocation of scarce resources from the viewpoint of individual economic units. Topics include household and firm behavior, competitive pricing of goods and resources, and monopoly power. (Credit will not be given for this course to students who have received credit in ECO 261.)

### **ECO 202 PRINCIPLES OF ECONOMICS II. (3)**

A study of how society's needs are satisfied with the limited resources available. Topics include contemporary issues such as inflation, unemployment, economic growth, international dependencies, and how public policy deals with them. (Credit will not be given for this course to students who have received credit in ECO 260.) Prereq: ECO 201 or equivalent.

### **ECO 391 ECONOMIC AND BUSINESS STATISTICS. (3)**

A survey of statistical techniques relevant to modern economics and business, with major emphasis on correlation and regression, Bayesian decision theory, index numbers, time series analysis, and forecasting models. Prereq: STA 291 or equivalent.

### **ECO 395 INDIVIDUAL WORK IN ECONOMICS.(1-6)**

Students confer individually with the instructor. Written paper usually expected and filed in chairperson's office. May be repeated to a maximum of six credits. Prereq: GPA of 3.0 in major, approval of instructor and chairperson.

### **ECO 401 INTERMEDIATE MICROECONOMIC THEORY. (3)**

An analysis of the behavior of consumers and firms, price determination, various market structures, and income distribution. Prereq: ECO 202 or equivalent.

### **ECO 402 INTERMEDIATE MACROECONOMIC THEORY. (3)**

National income concepts, the determination of aggregate income and employment, the theory of money and inflation and problems of economic growth. Prereq: ECO 202 or equivalent and ECO 401 taken previously or concurrently.

### **ECO 410 CURRENT ISSUES IN ECONOMICS**

(Subtitle required). (3)

The course addresses relevant topics in economics. May be repeated for a maximum of six credits under different subtitle. Prereq: ECO 202 and/or ECO XXX to be identified by instructor upon time of offering.

### **ECO 411 BUSINESS ECONOMICS. (3)**

Applies basic economic principles to the types of problems faced by business decision makers. Particular attention is paid to the economics of organizations and to the economics of firm strategy. Topics covered will include the nature of the firm, the make or buy decision, corporate governance, distribution channels, external market structure, selling decisions, and rivalry and strategy. Prereq: ECO 202 or equivalent.

#### ECO 412 MONETARY ECONOMICS. (3)

A detailed discussion of the financial sector of basic static macroeconomic models, including views of both the monetarist and new-Keynesian schools. Institutional aspects of the financial system are discussed. The course stresses problems of economic stabilization. Prereq: ECO 202 or equivalent.

#### ECO 450G THE ECONOMICS OF POVERTY AND WELFARE PROGRAMS. (3)

Examines the economic conditions of the poor in the U.S., theories of poverty, and major redistribution programs in the U.S. The course will study the economic impacts of such programs as Social Security, Medicare, Aid to Families with Dependent Children, Food Stamps, Medicaid, and child care subsidies. Prereq: ECO 401 or equivalent or consent of instructor.

#### ECO 461 MARKET STRUCTURE AND ANTI-TRUST POLICY. (3)

A study of the relationship between industry performance and market structure, and the role and effect of the government's anti-trust policies. Prereq: ECO 401 or equivalent.

#### ECO 465G COMPARATIVE ECONOMIC SYSTEMS. (3)

This course deals with the theoretical underpinning of the major economic systems in existence today. The classical model of competitive market capitalism is reviewed first, followed by the Marxian and neo-Marxian (Leninist) critique of capitalism. Next, the contemporary Keynesian and the neo-Keynesian models are analyzed. This course concludes with a review of the Lange model of decentralized (market) socialism. Prereq: ECO 401 or equivalent or consent of instructor.

#### ECO 467 AMERICAN ECONOMIC HISTORY. (3)

The development of the American economy will be examined within the general framework of economic theory. Major emphasis will be given to the long-run process of economic growth of the economy from the colonial period to the present. Prereq: ECO 401 or equivalent.

#### ECO 471 INTERNATIONAL TRADE. (3)

This is advanced economic course in international trade. The first part of the course covers the basics of why countries trade, what explains the pattern of trade that we observe and what are the effects of trade on welfare and the distribution of income. The second part of the course covers issues concerning trade policy and looks at the positive and normative effects of trade policy and trade agreements as well as investigating topics of current interest. While the focus of the course is on theory, students will also be exposed to many applications of the theory as a means of both explaining the economic intuition and encouraging students to analyze the world around them from an economic perspective. Prereq: ECO 401 or equivalent. (Same as AEC 471.)

#### ECO 472 INTERNATIONAL MONETARY ECONOMICS. (3)

This course deals with macroeconomic and financial aspects of the open economy. Main subjects include the balance of payments, exchange rate determination, and macroeconomic theory and policy in an open economy. Students are exposed to basic concepts such as purchasing power parity, interest parity, monetary models of the exchange rate, and the Mundell-Fleming model. Current issues for discussion include currency crises, pros and cons of international capital flows, and the choice of exchange rate regime. Prereq: ECO 402 or consent of instructor.

#### ECO 473G ECONOMIC DEVELOPMENT. (3)

A comparative study of economic progress in selected countries; growth patterns, theories of development and capital formation, interaction of social and economic change. Prereq: ECO 401 or equivalent or consent of instructor.

#### ECO 477 LABOR ECONOMICS. (3)

Application of economic principles to analyze the operation of labor markets. Topics covered include: theories of labor movements, comparative analysis of unionism in different economies, labor supply, labor demand, human capital, collective bargaining, public policy and the operation of labor markets. In addition, selected topics such as female and minority employment, social security, and industrial conflict will be covered. Prereq: ECO 401 or equivalent.

#### ECO 479 PUBLIC ECONOMICS. (3)

An application of economic analysis to the study of the role of government. Emphasis is on the reasons for and the effects of government intervention in the economy. Topics covered include: market failure, public goods and externalities, welfare policy, voting and public choice, taxation, public debt and cost-benefit analysis. Prereq: ECO 401 or equivalent. Agricultural Economics majors may substitute AEC 303 for this prerequisite. (Same as AEC 479.)

#### ECO 491G APPLIED ECONOMETRICS. (3)

To provide the student with a firm foundation in the design and estimation of economic models, empirical analysis of economic relationships, and forecasting. Emphasizes the structure and utilization of economic models. Prereq: ECO 391, ECO 401, and ECO 402 or equivalent or consent of instructor.

#### ECO 499 SEMINAR IN ECONOMICS (Subtitle required). (3)

Reading, research and discussion in a seminar format to illuminate problems of historical and contemporary interest in areas of special faculty competence. May be repeated to a maximum of nine credits, but may not be repeated under the same subtitle. Will be limited to a maximum of 15 students. Prereq: ECO 391, ECO 401, and ECO 402 or equivalent.

#### ECO 590 INTRODUCTION TO QUANTITATIVE ECONOMICS I. (3)

An introduction to mathematical approaches to economic theory. Emphasis on linear models, constrained optimization, and techniques used in comparative statics. Prereq: ECO 401 and MA 113, or consent of instructor. (Same as AEC 590.)

#### ECO 601 ADVANCED MICROECONOMIC THEORY. (3)

An intensive course covering microeconomic theory and its various methodological and analytical techniques. Prereq: ECO 401 or consent of instructor.

**ECO 602 MACROECONOMIC THEORY. (3)**

An analysis of a market clearing, general equilibrium macroeconomic model. Emphasis on theoretical foundations of relevant behavioral functions and comparative statics. Not open to those with credit in ECO 761. Prereq: ECO 402 or consent of instructor.

**ECO 603 RESEARCH METHODS AND PROCEDURES IN ECONOMICS. (3)**

The basic procedures and methods of research in economics are considered from the standpoint of their applicability to problem solving and discovery of new scientific facts and generalizations in economics. Definition of the problem, statement of hypothesis, research design, data collection methods, and data analysis constitute the major topics. Attention is given to proper style and preparation of research reports in economics.

**ECO 610 MANAGERIAL ECONOMICS. (3)**

Analysis of applications of economic theory to management decision making. Such problems as demand and cost determination, pricing, and capital budgeting are treated. Prereq: Graduate standing, MA 123 or its equivalent.

**ECO 652 PUBLIC POLICY ECONOMICS. (3)**

Principles and practices of economical resource management in the governmental sector: tax and expenditure types, intergovernmental fiscal cooperation, debt financing, budgeting and financial planning. Prereq: MPA or MHA program status; prereq or concur: completion of MPA or MHA computer skills program requirement. ECO 201 or equivalent. (Same as HA/PA 652.)

**ECO 653 HEALTH ECONOMICS. (3)**

This course applies general theoretical principles of economics to the health care sector. The basic approach is to recognize the importance of scarcity and incentives, allowing for differences peculiar to health. The demand and supply of health and medical care are examined as they involve physicians, nurses and hospitals. The competitiveness of their markets, health insurance and the role of government are explored. Special topics include regulation and planning, benefits-cost analysis, and reform health plans. Prereq: The economics prerequisite can be met in three ways: (a) an undergraduate principles course in microeconomics and HA/PA 652; (b) an undergraduate microeconomics principles course and a graduate course in managerial economics; or (c) an undergraduate microeconomics principles course and an intermediate microeconomics course. (Same as HA/ PA 636.)

**ECO 654 BENEFIT-COST ANALYSIS. (3)**

Principles, practices and applications of applied welfare analysis are the content of this course. The basic theory of benefit-cost analysis is presented and the relevance of implementation analysis in policy analysis is established. Prereq: PA 652. (Same as PA 680.)

**ECO 670 ECONOMICS OF INTERNATIONAL FINANCIAL INSTITUTIONS. (3)**

An in-depth study of financial markets, commercial banking, and business finance in an international setting. Prereq: ECO 471 and ECO 412 or consent of instructor.

**ECO 672 WORLD TRADE AND COMMERCIAL POLICY. (3)**

An analysis of trade patterns and the implication of government policy on trade, in the light of both economic theory and empirical findings. Prereq: Successful completion of an upper division undergraduate or graduate level economics course.

**ECO 674 AGRICULTURE AND ECONOMIC DEVELOPMENT. (3)**

Analytical consideration of the role of agriculture in economic development in relation to overall development strategy at various stages of growth. Theoretical and policy issues of particular relevance to the agricultural development in underdeveloped agrarian economies with various resource, social, political and economic systems. Prereq: ECO 473G or consent of instructor. (Same as AEC 626.)

**ECO 692 ECONOMETRICS FOR POLICY ANALYSTS. (3)**

Maximum likelihood estimation, ordinary least squares (OLS) regression, instrumental variables (IV) regression, heteroscedasticity-consistent regression, fixed and random effects models, probit, logit and tobit models, and identification and two-state least squares estimation of simultaneous equations models. Prereq: Any undergraduate statistics course. MPA, MPP or PUAD program status for priority registration, other students with permission of instructor. (Same as PA 692.)

**ECO 700 TEACHING METHODS IN BUSINESS. (1)**

A three part course that examines what constitutes good teaching and explores effective techniques for college instruction. Seminars emphasize practical information for both the principal activities and the details of teaching. Departmental discussions allow students to discuss issues that arise in their teaching practice. Reviews of classroom performance provide professional feedback in order to enhance on-the-job learning. Seminar, two hours per week. Prereq: Approval of Director of Graduate Studies. (Same as BA 700.)

**ECO 701 NEOCLASSICAL MICROECONOMIC THEORY. (3)**

The Neoclassical theory of consumer behavior, production, market equilibrium and imperfect competition. Prereq: ECO 601 and ECO 590, or consent of instructor.

**ECO 702 ADVANCED MACROECONOMIC THEORY. (3)**

Analysis of general equilibrium macroeconomic models and factors responsible for deviations from general equilibrium. Emphasis on issues from recent professional literature. Prereq: ECO 602 or consent of instructor.

**ECO 703 INTRODUCTION TO ECONOMETRICS I. (3)**

The first course in the introduction to econometrics. A comprehensive survey of the general linear regression, autocorrelation, errors in variables and distributed lag models. Prereq: ECO 590 and either ECO 603 or STA 525, or consent of instructor.

ECO 704 GENERAL EQUILIBRIUM ANALYSIS  
AND WELFARE ECONOMICS. (3)

Existence, stability, efficiency and Pareto satisfactoriness of competitive equilibrium. Recent developments in general equilibrium and welfare theory. Prereq: ECO 701 or consent of instructor.

ECO 705 MACROECONOMIC DYNAMICS. (3)

Theoretical and empirical assessment of dynamic issues in macroeconomics. Topics include neoclassical and endogenous growth models and vector autoregressions. Prereq: ECO 702 or consent of instructor.

ECO 706 INTRODUCTION TO ECONOMETRICS II. (3)

The second course in the introduction to econometrics. A comprehensive survey of identification, estimation and hypothesis testing in the context of simultaneous equations model. Prereq: ECO 703 or consent of instructor.

ECO 710 ECONOMICS OF ORGANIZATION. (3)

The Economics of Organization applies transactions costs and principal-agent theories to study the internal organization of the firm. Topics covered include the boundaries of the firm, corporate governance, and internal incentive systems. Prereq: ECO 610 or equivalent.

ECO 711 ECONOMICS OF FIRM STRATEGY. (3)

The Economics of Firm Strategy applies economic tools to the analysis of firm strategy. Topics to be covered include basic cost and demand conditions, economies of scale and scope, product differentiation, entry and mobility conditions, price discrimination and commodity bundling, vertical control, and rivalry and strategy. Prereq: ECO 610 or equivalent.

ECO 721 ENVIRONMENTAL ECONOMICS,  
REGULATION AND POLICY. (3)

This course takes a balanced practitioner approach to the problems of the environment and environmental regulation. Efficiency aspects will be developed carefully, so as to provide a background for an extensive coverage of various available alternative policies. Prereq: PA 652 and MPA or economics program status or consent of instructor. (Same as PA 727.)

ECO 724 ENVIRONMENTAL ECONOMICS. (3)

This seminar in environmental economics deals with market failure, benefit-cost analysis, no market failure, valuations of environmental changes, and selected topics in environmental economics. Central to the course is valuing changes in health risks, risk perception, and behavior related to health risk. Selected topics include international issues, environmental equity and markets for environmental quality. This course and ECO 725 Health Economics are the two courses that are the basis for the area in Environmental and Health Economics in the Ph.D. Program in Economics. Prereq: ECO 601 and ECO 703 or consent of instructor.

ECO 725 HEALTH ECONOMICS. (3)

This course rigorously examines the organization, financing, and management of the US health care system and programs, and emphasizes economic analysis contemporary health policy concerns. By the end of the semester, students should have the institutional knowledge and analytic

tolls needed to contribute to current public policy debates about health and medical care. This course and ECO 724 Environmental Economics are the two courses that are the basis for the area in Environmental and Health Economics in the Ph.D. program in Economics. Prereq: ECO 601 and 703 or consent of instructor.

#### ECO 731 LABOR ECONOMICS I. (3)

The theory and estimation of the demand for and the supply of labor are introduced. Topics include demographic changes, minimum wages, retirement, and secular trends in labor force participation. The concept of human capital is examined, including applications to income distribution. Theory and evidence on the structure of wages in the U.S. is considered. Topics include compensating wages and race and gender differences. Prereq: ECO 601 or consent of instructor.

#### ECO 732 LABOR ECONOMICS II. (3)

Dynamic and cyclical labor demand are examined theoretically and empirically. Models of unemployment are considered, including search theory and the implicit contract model. Aspects of labor unionism are examined including changes in union membership, strikes, and union wages and employment. The incentive effects of compensation are discussed, including sorting models and the principal-agent problem. Prereq: ECO 601 or consent of instructor.

#### ECO 741 THEORY OF THE FIRM AND MARKET STRUCTURE. (3)

A study of firms and markets covering such topics as organizational structure and objectives of firms; product selection, advertising and quality; price discrimination; vertical control; entry, accommodation and exit; cost structure and market organization, market structure and performance; and public policy. Prereq: ECO 601 or consent of instructor.

#### ECO 742 INDUSTRIAL ORGANIZATION. (3)

A comprehensive survey of the literature in industrial organizations including static theories of oligopoly, dynamic theories of oligopoly, information about strategic behavior, research and development, patents, and adoption of new technology.

#### ECO 749 DISSERTATION RESEARCH. (0)

Half-time to full-time work on dissertation. May be repeated to a maximum of six semesters. Prereq: Registration for two full-time semesters of 769 residence credit following the successful completion of the qualifying exams.

#### ECO 751 PUBLIC ECONOMICS. (3)

An advanced study of both how government activities influence allocation, relative prices and welfare and what is the proper role of the public sector in resource allocation. Relevant topics include: public goods, externalities, tax incidence, optimal taxation, benefit-cost analysis, public pricing, fiscal federalism, state-municipal finance and public choice. Prereq: ECO 601 or consent of instructor.

#### ECO 752 THE ECONOMICS OF POLICY ANALYSIS. (3)

This course examines economic approaches to policy analysis. Included is an analysis of the major concepts of economic analysis and their application to a number of policy problems. Prereq: PA

652 and PA 750 or equivalent and Ph.D. program status or consent of the instructor. (Same as PA 752.)

**ECO 753 URBAN AND REGIONAL ECONOMICS. (3)**

An intensive study of the theory, evidence and policy concerning urban areas and regions. Topics typically covered include: nature of regions and urban areas, size and distribution of cities, location decisions, housing, transportation, migration and regional growth. Prereq: ECO 601 or consent of instructor.

**ECO 761 MONETARY ECONOMICS: THEORY. (3)**

Demand and supply of money and other assets. The financial sector in macro-static and dynamic models of the economy. Prereq: ECO 701, ECO 702 or consent of instructor.

**ECO 762 MONETARY ECONOMICS: POLICY. (3)**

Theory of public policy making. Central bank policy instruments and the effectiveness of monetary policy. Debt management and the term structure of interest rates. Econometric studies of the financial sector. Reforming financial institutions. Prereq: ECO 766 or consent of instructor.

**ECO 767 DISSERTATION RESIDENCY CREDIT. (2)**

Residency credit for dissertation research after the qualifying examination. Students may register for this course in the semester of the qualifying examination. A minimum of two semesters are required as well as continuous enrollment (Fall and Spring) until the dissertation is completed and defended.

**ECO 768 RESIDENCE CREDIT  
FOR THE MASTER'S DEGREE. (1-6)**

May be repeated to a maximum of 12 hours.

**ECO 769 RESIDENCE CREDIT  
FOR THE DOCTOR'S DEGREE. (0-12)**

May be repeated indefinitely.

**ECO 771 INTERNATIONAL ECONOMICS:  
INTERNATIONAL MONEY AND FINANCE. (3)**

International finance and open economy macroeconomics; the balance of payments; theory of exchange rate determination; macroeconomic policy issues in open economies. Prereq: ECO 602.

**ECO 772 INTERNATIONAL ECONOMICS:  
TRADE THEORY AND POLICY. (3)**

Theory and empirical analysis of the effects of trade and trade policy. Prereq: ECO 601.

**ECO 773 OPEN ECONOMY MACROECONOMICS. (3)**

Development of rigorous models to enhance knowledge of open economies. Topics include: impact on an economy of changes in trade, the current account balance, exchange rates, and international financial markets. Prereq: ECO 702.

**ECO 790 TIME SERIES ANALYSIS. (3)**

Time series and stochastic processes, auto-correlation functions and spectral properties of stationary processes; linear models for stationary processes, moving average, auto-regressive and mixed auto-regressive-moving average processes; linear nonstationary models, minimum mean square error forecasts and their properties; model identification, estimation and diagnostic checking. Prereq: STA 422G or its equivalent. (Same as STA 626.)

**ECO 796 SEMINAR. (1-6)**

An extended original investigation of some specific topic with a view to giving training in methods of research and studying intensively a particular subject in the field of economics. May be repeated to a maximum of six credits.

**ECO 797 RESEARCH PROBLEMS IN ECONOMICS. (1-9)**

Students confer individually with the instructor. May be repeated to a maximum of nine credits. Prereq: Permission of the Director of Graduate Studies is required.