Economics is the study of how individuals and societies allocate limited resources to try to satisfy unlimited wants; it is therefore a study of choices. Households and business firms must decide what and how much to consume or produce and how much labor, land and capital to supply. Governments make decisions affecting inflation and unemployment, taxation and expenditures, the monetary system and international trade. Together these public and private choices determine the nation's prosperity and shape the distribution of its wealth. Since every social relationship has economic aspects, an understanding of economic principles and systems is an integral part of a liberal education.

Economics majors have a wide choice of careers. Many supplement their major with cognate courses to prepare for careers in business, journalism, health care administration or public service. Others find it excellent preparation for law school. Ph.D. graduates in economics are in demand at universities, corporations, financial institutions and government agencies. M.A. graduates may teach at junior colleges but more typically go into business or public service.

BELZER, MICHAEL H.: Ph.D., M.S., B.A., Cornell University; Associate Professor
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STRAUSS, DAVID J.: Ph.D., The Ohio State University; M.S.Ed., Indiana University; B.A., Bucknell University; Lecturer
WARD-BATTS, JENNIFER: Ph.D., University of Washington; B.A., University of North Carolina at Asheville; Assistant Professor
YOON, YOUNG-RO: Ph.D., Cornell University; B.A., Seoul National University; Assistant Professor

Introductory Economics
ECO 1000 Survey of Economics Cr. 4
Satisfies General Education Requirement: Social Inquiry, Social Sciences
Scope of economics and the task of the economist in modern society; the market economy, its evolution and development; non-market economies; economic problems and prospects in the contemporary world. Not for ECO major or minor credit. Offered Every Term.

ECO 2010 Principles of Microeconomics Cr. 4
Satisfies General Education Requirement: Social Inquiry, Social Sciences
Supply, demand, price at the level of the firm and industry; business institutions and their operation; determinants of wage and salary levels, interest rates, rent, profits, income distribution; public policy in relation to business and labor. Offered Every Term.

ECO 2020 Principles of Macroeconomics Cr. 4
Satisfies General Education Requirement: Social Inquiry, Social Sciences
Determination of national income, consumption and saving, and investment; money, banking and the Federal Reserve; inflation and unemployment; monetary and fiscal policy; economic growth and productivity; the international sector. Offered Every Term.

Field A: Economic Theory
ECO 5000 Intermediate Microeconomics Cr. 4
Theory of the firm and consumer. Analysis of a price system as a means to efficient allocation of productive resources. Offered for undergraduate credit only. Offered Every Term.
Prerequisites: ECO 2010 with a minimum grade of C and MAT 1500-6XXX with a minimum grade of C

ECO 5020 Fundamentals of Economic Analysis I Cr. 4
This course assumes good knowledge of first semester calculus, and teaches additional mathematics necessary for Ph.D. study in economics, and (to a lesser extent) teaches some economic implications; course content includes; matrices, vectors and linear algebra; partial and total derivatives; scalar and vector functions; Jacobian derivative matrices and determinants; implicit function theorem; derivatives of implicit functions with one or more endogenous variables; unconstrained maximization with two or more variables; Lagrangians and constrained maximization; envelope theorem; differential and difference equations, and systems of differential and difference equations. Offered for undergraduate credit only. Offered Fall.
Prerequisites: ECO 5000 with a minimum grade of C and MAT 2010-6XXX with a minimum grade of C
Restriction(s): Enrollment is limited to Undergraduate level students.
ECO 5050 Intermediate Macroeconomics Cr. 4
Theory of national income determination. National output and income, saving and capital formation. Offered for undergraduate credit only. Offered Every Term.
Prerequisites: MAT 1500-6XXX with a minimum grade of C and ECO 2020 with a minimum grade of C
Restriction(s): Enrollment is limited to Undergraduate level students.
ECO 6000 Price and Allocation Theory Cr. 4
Introduction to the theory of consumer choice and the theory of production, and other selected topics. Primarily for M.A. students and for Ph.D. students who want to review. Offered Fall.
Restriction(s): Enrollment limited to students with a class of Unranked Grad, Junior or Senior.

Field B: Quantitative Methods
ECO 5100 Introductory Statistics and Econometrics Cr. 4
Elementary probability theory, discrete and continuous probability distribution, sampling distribution, interval estimation, hypothesis testing, and estimation and inference in simple and multiple regression models. Offered for undergraduate credit only. Offered Every Term.
Prerequisites: ECO 2010 with a minimum grade of C and ECO 2020 with a minimum grade of C and MAT 1500-6XXX with a minimum grade of C
Restriction(s): Enrollment is limited to Undergraduate level students.

Field C: Industrial Organization
ECO 5200 Regulation and Regulated Industries Cr. 4
Transportation economics. Regulation of transportation as an example of public control of business; the rationale for having public regulation, and the analysis of its economic effects; reform of the scope and practice of regulation; public ownership; regulation of occupational and product safety standards and environmental standards. Offered for undergraduate credit only. Offered Yearly.
Prerequisites: ECO 2010 with a minimum grade of C
Restriction(s): Enrollment is limited to Undergraduate level students.
ECO 5210 Market Power and Economic Welfare Cr. 4
Monopoly, oligopoly, and competition in U.S. industry; sources of market power and their effect on prices, profits, and technological progress. Case studies. Selected topics in antitrust policy. Offered for undergraduate credit only. Offered Yearly.
Prerequisites: MAT 1500 with a minimum grade of C or MAT 2010 with a minimum grade of C and ECO 2010 with a minimum grade of C
Restriction(s): Enrollment is limited to Undergraduate level students.
ECO 5250 Economic Analysis of Law Cr. 4
Economic analysis of property rights, torts, contracts, criminal law, the law of business organizations and financial markets, and the law of taxation. Economic analysis of litigation; the use of economics and statistics in litigation. Offered for undergraduate credit only. Offered Yearly.
Prerequisites: MAT 1500-6XXX with a minimum grade of C
Restriction(s): Enrollment is limited to Undergraduate level students.

Field D: International Economics
ECO 5300 International Trade Cr. 4
Factors in international relations; patterns of international specialization; balance of international payments; foreign exchange; commercial policy of United States and other countries; foreign investment and economic development; international economic cooperation. Offered for undergraduate credit only. Offered Fall.
Prerequisites: ECO 5000 with a minimum grade of C and ECO 2010 with a minimum grade of C
Restriction(s): Enrollment is limited to Undergraduate level students.
ECO 5310 International Finance Cr. 4
Major policy issues in the field of international finance with emphasis on open economy macroeconomics. Topics include the balance of payments and the foreign exchange market; monetary and fiscal policies in open economies; the floating exchange rate system; international financial markets; and European monetary integration. Offered for undergraduate credit only. Offered Winter.
Prerequisites: MAT 1500 with a minimum grade of C or MAT 1800 with a minimum grade of C and ECO 2010 with a minimum grade of C and ECO 5050 with a minimum grade of C
Restriction(s): Enrollment is limited to Undergraduate level students.

Field E: Labor and Human Resources
ECO 5400 Labor Economics Cr. 4
Economics of labor markets. Determinants of earnings and methods of compensation, labor supply and demand, effects of taxes and subsidies on labor supply, choices of occupation and level of schooling, promotion and turnover, employment discrimination, economics of crime and punishment, regulation of professions, unions. Offered for undergraduate credit only. Offered Fall, Winter.
Prerequisites: ECO 2010 with a minimum grade of C
Restriction(s): Enrollment is limited to Undergraduate level students; enrollment is limited to students with a major in Labor Studies.
ECO 5410 Economics of Race and Gender Cr. 4
Theory and empirical evidence of race and gender differentials in the labor market. Topics include the difference in occupations and earnings, discrimination, poverty, and public policies. Offered for undergraduate credit only. Offered Winter.
Prerequisites: ECO 2010 with a minimum grade of C
Restriction(s): Enrollment is limited to Undergraduate level students.
**Field F: Public Economics**

ECO 5470 Economics of an Aging Society Cr. 4
Economic implications of aging and retirement; public policy issues related to aging, including health care, long term care, public pensions (Social Security), private pensions, savings behavior, income maintenance, Medicare, other welfare problems. Offered for undergraduate credit only. Offered Yearly.

**Prerequisites:** ECO 2010 with a minimum grade of C and ECO 5000 with a minimum grade of C

**Restriction(s):** Enrollment is limited to Undergraduate level students.

ECO 5500 Public Finance Cr. 4
Role of government in a market economy; sources of market failure; public goods and externalities; principles of taxation and expenditures; tax incidence; federal tax structure; selected government expenditure programs. Offered for undergraduate credit only. Offered Fall, Spring/Summer.

**Prerequisites:** ECO 2010 with a minimum grade of C

**Restriction(s):** Enrollment is limited to Undergraduate level students.

ECO 5520 State and Local Public Finance Cr. 4
Theory and practice of state and local government taxation and expenditure. Attention devoted to State of Michigan and municipalities in Detroit metropolitan area. Topics include: government organization, voting and mobility models, property and sales taxes, user charges, grants, education expenditure, and economic development. Offered for undergraduate credit only. Offered Yearly.

**Prerequisites:** ECO 2010 with a minimum grade of C

**Restriction(s):** Enrollment is limited to Undergraduate level students.

ECO 5550 Economics of Health Care Cr. 4
Allocation of health care resources, with respect to demand and supply of health care. Role of hospitals, physicians, and health insurance; market imperfections and their role in the economics of health care. Offered for undergraduate credit only. Offered Yearly.

**Prerequisites:** ECO 2010 with a minimum grade of C

**Restriction(s):** Enrollment is limited to Undergraduate level students.

**Field G: Monetary and Financial Economics**

ECO 5700 Money and Banking Cr. 4
Role of the Federal Reserve System, the commercial banks, and the non-bank public (including financial intermediaries) in determining the money supply; central banking and techniques of monetary control; indicators and targets of monetary policy; and how money affects economic activity. Offered Fall, Winter.

**Prerequisites:** MAT 1500 with a minimum grade of C and ECO 2010 with a minimum grade of C and ECO 5050 with a minimum grade of C

**Restriction(s):** Enrollment is limited to Undergraduate level students.

ECO 5720 Financial Economics Cr. 4
Fundamentals of investments: investment and financial markets, theoretical models of investment theory including efficient market hypothesis (EMH) and capital asset pricing model (CAPM); characteristics and analysis of stocks, bonds, and portfolios; equity evaluation through financial statements, industry analysis, and macroeconomic analysis; and advanced topics in either derivative assets (futures and options) or international investments. Offered for undergraduate credit only. Offered Winter.

**Prerequisites:** ECO 2010 with a minimum grade of C and ECO 2020 with a minimum grade of C and MAT 1500-6XXX with a minimum grade of C

**Restriction(s):** Enrollment is limited to Undergraduate level students.

ECO 5724 Money and Banking Honors Cr. 3
For the student who shows evidence of ability and interest in economic study and who desires opportunity for advanced reading in a special field. Arrange with advisor. Offered Every Term.

**Prerequisites:** ECO 2010 with a minimum grade of C and ECO 2020 with a minimum grade of C and MAT 1500 with a minimum grade of C

**Restriction(s):** Enrollment is limited to Undergraduate level students.

**Equivalent:** UP 5820

ECO 5740 Fundamentals of Investments Cr. 3
Mandatory for those who desire to pursue a degree in finance, or to prepare for a career in finance. Topics include: the efficient market hypothesis, the capital asset pricing model, the role of institutions in the financial system, the use of financial derivatives, corporate finance, portfolio management, and capital allocation. Offered Every Term.

**Prerequisites:** ECO 2010 with a minimum grade of C and ECO 2020 with a minimum grade of C

**Restriction(s):** Enrollment is limited to Undergraduate level students.

**Equivalent:** UP 5820

ECO 6455 Discrimination and Fair Housing Cr. 3
Multidisciplinary investigation into the nature, motivations, consequences, and legal/public policy implications of racial/ethnic discrimination in housing and related markets in U.S. metropolitan areas. Offered Biannually.

**Equivalent:** AFS 6455, PS 6455, SOC 6455, UP 6455, US 6455

**Field H: Urban and Regional Economics**

ECO 5800 Urban and Regional Economics Cr. 4
Introduction to the economic foundations of urban problems; land use, housing, poverty, transportation, local public finance; regional industry mix, income, growth and development; the national system of cities and location of firms. Offered for undergraduate credit only. Offered Yearly.

**Prerequisites:** ECO 2010 with a minimum grade of C

**Restriction(s):** Enrollment is limited to Undergraduate level students.

**Equivalent:** UP 5820

ECO 5820 Urban Economics Cr. 3
Focus on urban economics in the contemporary global setting. Topics include issues of real estate, housing, and transportation. Offered Biannually.

**Prerequisites:** ECO 2010 with a minimum grade of C

**Restriction(s):** Enrollment is limited to Undergraduate level students.

ECO 5850 Urban Economic Development Cr. 4
Prerequisites: ECO 5800 or permission of instructor.
Study of the economic development of urban areas, including the role of government and private sector in the development of urban areas. Offered Biannually.

**Prerequisites:** ECO 5800 or permission of instructor

**Restriction(s):** Enrollment is limited to Undergraduate level students.

ECO 6820 Environmental Economics Cr. 3
Prerequisites: ECO 5800 or permission of instructor.
Focuses on the role of economic theory and policy in addressing environmental issues. Topics include environmental and natural resource economics, pollution control, and sustainable development. Offered Biannually.

**Prerequisites:** ECO 5800 or permission of instructor

**Restriction(s):** Enrollment is limited to Undergraduate level students.

**Equivalent:** UP 6820

**Directed Readings and Special Courses**

ECO 3990 Directed Study Cr. 1
For the student who shows evidence of ability and interest in economic study and who desires opportunity for advanced reading in a special field. Arrange with advisor. Offered Every Term.

**Prerequisites:** ECO 1000-ZZZZ with a minimum grade of B or ECO 1000-ZZZZ with a minimum grade of B or ECO 1000-ZZZZ with a minimum grade of B or ECO 1000-ZZZZ with a minimum grade of B

**Restriction(s):** Enrollment limited to students with a class of Senior; enrollment is limited to students in the Department of Economics; enrollment is limited to students with a major in Economics or Economics Honors.

**Repeatable for 2 Credits**
ECO 4991 Research in Economics Cr. 3-12
Economic research on an appropriate topic of the student's choice, conducted under faculty supervision. Does not count toward 32-credit requirement for the ECO major. Offered Every Term.
Prerequisites: ECO 1000-ZZZZ with a minimum grade of B or ECO 1000-ZZZZ with a minimum grade of B or ECO 1000-ZZZZ with a minimum grade of B or ECO 1000-ZZZZ with a minimum grade of B
Restriction(s): Enrollment limited to students with a class of Senior; enrollment is limited to students in the Department of Economics; enrollment is limited to students with a major in Economics or Economics Honors.
Repeatable for 12 Credits

ECO 4997 Senior Honors Research Cr. 4
Individually arranged meetings with faculty member to discuss research methodology and readings in areas of research selected by instructor. A senior honors essay of a length proportionate to the selected topic will be required. Offered Every Term.
Restriction(s): Enrollment is limited to Undergraduate level students; enrollment limited to students with a class of Senior; enrollment is limited to students in the Department of Economics; enrollment is limited to students with a major in Economics Honors; enrollment limited to students in a Bachelor of Arts degree.

ECO 5993 Writing Intensive Course in Economics Cr. 0
Satisfies General Education Requirement: Writing Intensive Competency Disciplinary writing assignments under the direction of a faculty member. Satisfies the University General Education Writing Intensive Course in the Major requirement. Required for all majors. Offered Every Term.
Prerequisites: May be taken concurrently: ECO 5000-9999 with a minimum grade of C-
Restriction(s): Enrollment is limited to Undergraduate level students.