ECO 317 Marxist Political Economy
An analysis of capitalism as a social system of production and exchange, based on the economic writings of Karl Marx and others working in that broad tradition. The course begins with study of Marx’s philosophical method, dialectical materialism, and applies this method to the historical development of capitalism and the operation of the modern capitalist economy. The course explores connections between economic power and political, cultural, and ethical issues. Prerequisite: C or higher in ECO 108
3 credits

ECO 320 Mathematical Statistics
An introduction to statistical methods and their properties that are useful in analysis of economic data. Topics include elements of probability theory and its empirical application, univariate and multivariate distributions, sampling distributions, limiting distributions, and point and interval estimation. Regular problems sets and occasional projects are required. Not for credit in addition to AMS 310. Prerequisites: C or higher in ECO 108; C or higher in MAT 122 or MAT 123 or AMS 151 or placement level 4 on the mathematics placement examination
4 credits

ECO 321 Econometrics
The application of mathematical and statistical methods to economic theory. Topics include the concept of an explanatory economic model, multiple regression, hypothesis testing, simultaneous equation models, and estimating techniques. Emphasis is placed on the application of econometric studies. Prerequisites: C or higher in ECO 320 or AMS 310; C or higher in ECO 108
4 credits

ECO 325 International Economics
Economic theory of international trade, protection, foreign trade, and attempts to reconcile planning with market forces. Prerequisites: C or higher in ECO 320 or AMS 310; C or higher in ECO 108
3 credits

ECO 326 Industrial Organization
A study of the structure of firms and markets and interactions between them. Price theory, strategic theory, and transaction costs analysis are used to illuminate the sources of and limitations on market power of firms. Some empirical evidence, drawn primarily from the U.S. economy, is explored. A brief introduction to antitrust policy and regulatory policy is included. Prerequisite: C or higher in ECO 303
3 credits

ECO 327-F Health Economics
An application of microeconomics to the health sector of the economy. Topics include the demand for health care; the roles of hospitals, physicians, and HMOs in the supply of health care; the role of government in the provision of health care; and the determinants of health care costs. Prerequisite: C or higher in ECO 303
3 credits

ECO 328-F Regional Economics
An examination of the major theories of economic structure within a spatial context. Special attention is paid to economic growth within a spatial world, migration of firms and resources across space, the empirical modeling of these processes, and regional economic modeling. Topics include export base theory, input-output modeling, social accounting matrices (SAMs), computable general equilibrium models (CGEs), and regional econometric and conjoint models. Prerequisite: C or higher in ECO 303
3 credits

ECO 329 Urban Economics
Construction of models to explain aspects of cities, including existence, dynamics, and land use patterns. Concepts include Lorenz Curve, externalities, tipping points, bid-rent curves, and separation of economic activities. Uses algebra, pre-calculus, graphing, and calculus. Computer spreadsheets and scientific hand calculators used. Prerequisite: C or higher in ECO 303
Advisory Prerequisite: MAT 131
3 credits

ECO 334-J Demographic Economics of Developing Countries
Problems related to both economics and demography. In scope, the material deals with both contemporary and historical situations in developing countries. Microeconomic aspects of the course concern fertility, marriage, divorce, and migration; macroeconomic aspects concern the implications for growth and development of various patterns of population increase. Prerequisites: C or higher in ECO 320 or AMS 310; C or higher in ECO 303 and 305
3 credits

ECO 335 Economic Development
An examination of problems and aspects facing developing countries in the transition from traditional, predominantly rural economic systems to modern, largely urban-oriented economies. Theories of economic growth and development are presented in the light of the actual experience of developing countries. Prerequisites: C or higher in ECO 308; MAT 120 or 131 or 141 or AMS 151
3 credits

ECO 337 Labor Theory
Microeconomic theory is used to investigate specific topics in the field of labor economics. Areas to be covered include the household’s decision-making process and the supply of labor, investments in human capital and discrimination in the marketplace, the effect of market structure on the demand for labor, and the distribution of income. Prerequisite: C or higher in ECO 303
3 credits

ECO 339-J China’s Economy Since 1949
Economic development policies in the People’s Republic of China from the revolution in 1949 to the present. Topics include agricultural and industrial organization, population policies, sectoral balances, foreign trade, and attempts to reconcile planning with market forces. Prerequisite: C or higher in ECO 108
Advisory Prerequisite: C or higher in ECO 305
3 credits

ECO 345 Law and Economic Issues
An application of economic issues to major fields of law to study their effects on market and non-market behavior. The consequences that laws may have on the realization of efficient outcomes, as well as an exploration of the legal process from an economic perspective, are emphasized. Prerequisite: C or higher in ECO 303
3 credits

ECO 346 Analysis for Managerial Decision Making
Development of analytical techniques (such as linear programming and statistical decision theory) for making economic decisions, both in public and private enterprises. The student makes decisions on large-scale and detailed cases in realistic managerial situations and is introduced to the use of the computer. May not be taken for credit after BUS 249. Not for credit in addition to the discontinued BUS 349. Prerequisite: C or higher in ECO 303
4 credits
ECO 351, 352, 353, 354 Special Topics in Economics
Semester supplements to this Bulletin contain specific descriptions when course is offered. May be repeated for credit as the topic changes.
Prerequisites: U3 or U4 standing; additional prerequisites announced with topic
3 credits per course

ECO 355 Game Theory
Introduction to game theory fundamentals with special emphasis on problems from economics and political science. Topics include strategic games and Nash equilibrium, games in coalitional form and the core, bargaining theory, measuring power in voting systems, problems of fair division, and optimal and stable matching. This course is offered as both AMS 335 and ECO 355.
Prerequisites: MAT 126 or 131 or 141 or AMS 151; C or higher in ECO 303
3 credits

ECO 356, 357 Special Topics in Economics
Semester supplements to this Bulletin contain specific description when course is offered. May be repeated for credit as the topic changes.
Prerequisites: U3 or U4 standing; additional prerequisites announced with topic
3 credits per course

ECO 358-J Topics in Developing Economies
Semester supplements to this Bulletin contain specific description when course is offered. May be repeated for credit as the topic changes.
Prerequisites: U3 or U4 standing; additional prerequisites announced with topic
3 credits

ECO 360 Money and Banking
An introduction to modern monetary institutions and mechanisms, their relationship to the economy, and governmental policies in this area.
Prerequisite: C or higher in ECO 108
3 credits

ECO 362 Financial Economics
An analysis of financial decision making inside the corporation, covering topics such as the choice of the dividend policy, the choice between equity and debt, and the interaction between financing and investment decisions. We will also look at how market imperfections, in particular the existence of informational differences between managers and investors, influence the performance of corporations. Finally, we study the optimal policies to cope with market imperfections.
Prerequisites: C or higher in ECO 305 and 320
3 credits

ECO 373-H Economics of Environment and Natural Resources
Analysis of economic policies designed to deal with environmental problems. Issues involving the management of renewable and exhaustible resources such as timber and oil as well as the advantage of market-based solutions over the conventional demand approach are discussed.
Prerequisite: C or higher in ECO 303
3 credits

ECO 383 Public Finance
Theories of taxation and the satisfaction of public wants; the nature of public goods; theory of public expenditures; effects of taxes on resource allocation and welfare; theories of tax incidence; fiscal and equity implications of alternative tax schemes; fiscal dynamics and growth; intergovernmental fiscal relations.
Prerequisites: C or higher in ECO 303 and 305
3 credits

ECO 389 Corporate Finance
Introduction to the main concepts and problems confronted by financial managers in the corporate world. Development and application of tools and methods for financial decision-making and analysis, including discounting and present value; asset valuation; investment criteria; risk and return; risk management; cost of capital; debt and dividend policies; international financial management.
Prerequisite: C or higher in ECO 303
Advisory Prerequisite: C or higher in ECO 305
3 credits

ECO 475, 476 Undergraduate Teaching Practica I, II
Work with a faculty member as an assistant in one of the faculty member’s regularly scheduled classes. The student is required to attend all the classes, do all the regularly assigned work and meet with the faculty member at regularly scheduled times to discuss the intellectual and pedagogical matters relating to the course. In ECO 475, students assume greater responsibility in such areas as leading discussions and analyzing results of tests that have already been graded. Students may not serve as teaching assistants in the same course twice.
Prerequisites to ECO 475: Permission of instructor and department
Prerequisites to ECO 476: C or higher in ECO 475; permission of instructor and department
3 credits per course, S/U grading

ECO 487 Independent Research in Economics
An independent project, developed out of advanced coursework in economics, designed in consultation with and supervised by a faculty member. The project should be formulated before the start of the semester in which the research will be done and should culminate in a substantial written paper. May be repeated.
Prerequisites: At least one upper-division course that forms the basis of research; permission of a supervising faculty member
0-6 credits

ECO 488 Internship in Economics
An independent research project undertaken in the context of a work environment that provides students with access to data, people, and experience that make possible the study of a particular economic issue. Related readings, a daily journal, and an analytical paper under the supervision of a faculty member are required. Permission must be obtained before the start of the semester in which the student enrolls in ECO 488. May be repeated up to a limit of 12 credits, but only counts as one course toward major requirements.
Prerequisites: C or higher in ECO 303 and 305; permission of supervising faculty member, Career Center Internship Manager, and sponsoring employing agency
0-6 credits, S/U grading

www.stonybrook.edu/ugbulletin Accurate as of Fall 2005