CSE 475 Undergraduate Teaching Practicum
Students assist faculty in teaching by conducting a recitation or laboratory section that supplements a lecture course. The student receives regularly scheduled supervision from the faculty instructor. May be used as an open elective only and repeated once.
Prerequisites: U4 standing as an undergraduate major within the college; a minimum g.p.a. of 3.00 in all Stony Brook courses and the grade of B or better in the course in which the student is to assist; or permission of department.
3 credits

CSE 487 Research in Computer Science
An independent research project with faculty supervision. Only three credits of research electives (AMS 487, CSE 487, BME 499, ESE 499, ESM 499, ISE 487, and MEC 499) may be counted toward technical elective requirements. May not be taken for more than six credits.
Prerequisites: Permission of instructor and department.
0-6 credits

CSE 488 Internship in Computer Science
Participation in local, state, national, or international private enterprise, public agencies, or nonprofit institutions. Participation of department. May be repeated up to a limit of 12 credits but CSE and ISE cannot be used as electives to satisfy CSE major requirements.
Prerequisites: CSE major, U3 or U4 standing; permission of department.
3, 4 credits, S/U grading

CSE 495-496 Senior Honors Research Project I, II
A two-semester research project carried out under the supervision of a computer science faculty member. Students must submit a written project report and make a presentation to the department at the year-end Honors Project Colloquium. Students who enroll in CSE 495 must complete CSE 496 in the subsequent semester and receive only one grade upon completion of the sequence.
Prerequisite to CSE 495: Admission to the Computer Science Honors Program.
Prerequisite to CSE 496: CSE 495.
3 credits per course

ECON

ECON 100-F Economics for Social Studies Teachers
An introduction to the principles of micro- and macroeconomics for students planning to become social studies teachers. The course will focus on economic concepts and reasoning with the goal of teaching prospective teachers how to apply these ideas to important public policy issues. Not for economics major credit.
Prerequisite: Admission to the secondary teacher education program in social studies.
3 credits

ECON 108-F Introduction to Economics
An introduction to economic analysis. Microeconomics (the study of individual, firm, industry, and market behavior) and macroeconomics (the study of the determination of national income, employment, and inflation).
Prerequisite: C or higher in MAT 122 or MAT 123 or AMS 151 or level 4 on the mathematics placement examination.
4 credits

ECON 303-F Intermediate Microeconomic Theory
Analytical study of the behavior of fundamental economic units (consumer and the firm) and its implications for the production and distribution of goods and services. Emphasis on the use of economic theory to provide explanations of observed phenomena, including the analytical derivation of empirically verifiable propositions.
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

ECON 305-F Intermediate Macroeconomic Theory
The theory of national income determination, employment, distribution, price levels, inflation, and growth. Keynesian and classical models of the different implications of monetary and fiscal policy.
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

ECON 310 Basic Computational Methods in Economics
A first course in the computational and graphical techniques for finding numerical solutions to the economic models presented in undergraduate courses. Includes the fundamentals of programming (using BASIC), data management, Newton’s method for solving nonlinear equations, exploring and fitting functions graphically, and finding maxima of functions.
Prerequisite: C or higher in ECO 303.
4 credits

ECON 316-K U.S. Class Structure and Its Implications
Investigation of the economic foundations of social class in the U.S. and connections among class, race, and gender. Consideration of both theoretical and empirical strategies to understand the working class, the middle class, and the capitalist class in contemporary U.S. society, including the implications of class analysis for social issues such as government economic policy formation, the “underclass” and welfare reform, globalization, living standards, the distribution of income and wealth, and economic ethics.
Prerequisite: C or higher in ECO 108.
3 credits

ECON 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

ECON 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 problem 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

ECON 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

ECON 325 International Economics
Economic theory of international trade, protection, commercial policy, customs unions, capital movements, and international finance.
Prerequisite: C or higher in ECO 303.
3 credits

ECON 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

ECON 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 the government in the provision of health care; and the determinants of health care costs.
Prerequisite: C or higher in ECO 303.
3 credits

ECON 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 conjoined models.
Prerequisite: C or higher in ECO 303.
3 credits

ECON 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

ECON 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

ECON 335 Economic Development
An examination of problems and aspects facing developing countries in the transition from traditional, predominantly rural economies 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 303; MAT 126 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 348 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
3 credits

ECO 351, 352, 353, 354 Special Topics in Economics
Semester supplements to this Bulletin contain specific descriptions when the 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 coalition 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 303 and 320
3 credits

ECO 373-H Economics of Environment and Natural Resources
Analysis of economic policies designed to deal with environmental issues. Problems 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 expenditure; 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 476, 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 ECO 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 employer
0-6 credits, S/U grading

EEL Selected East European Languages
EEL 111, 112 Elementary Selected East European Language I, II
An introduction to spoken and written selected East European languages (Polish, Czech, Slovak, Serbo-Croatian, Bulgarian, Ukrainian), stressing pronunciation, speaking, comprehension, reading, writing, and culture. EEL 111 is designed for students who have no prior knowledge of the language. A student who has had two or more years of the selected language in high school (or who has otherwise acquired an equivalent proficiency) may not take EEL 111 without written permission from the supervisor of the course. May be repeated for more than one language. Prerequisite to EEL 112: EEL 111
3 credits per course

EGL English

EGL 191-B Introduction to Poetry
Intensive analysis of poems in English of various periods and types and varying complexity. Descriptions available from the English Department. Not for English major credit. Prerequisite: Completion of D.E.C. category A
3 credits

EGL 192-B Introduction to Fiction
An analysis of fictional prose in terms of each section's specific theme. A goal of each section is to interpret various pieces of literature in relation to a political or historical view, or a particular literary technique. Descriptions available from the English Department. Not for English major credit. Prerequisite: Completion of D.E.C. category A
3 credits

EGL 193-B Introduction to Drama
Introduction to the analysis of drama, emphasizing the literary more than the theatrical dimension of the works, through examination of a range of plays from a variety of genres and periods. Descriptions available from the English Department. Not for English major credit. Prerequisite: Completion of D.E.C. category A
3 credits

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