

Economics

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The Department of Economics has a group of faculty who are interested in a variety of applied and theoretical topics. The graduate programs in Economics place strong emphasis on exploiting synergies between fields such as international economics, industrial organization, and technological change, and development economics (including Latin American and Caribbean studies as well as regional development problems). Issues are analyzed using modern economic tools from fields such as econometrics, game theory, and economic dynamics. While these are the department's areas of greatest emphasis, graduate course work in other fields can also be undertaken. The department's graduate programs are further enhanced by the presence of complementary graduate programs in the Green School, College of Arts and Sciences, College of Business, the Robert Stempel College of Public Health and Social Work, and the Kimberly Green Latin American and Caribbean Center.

The Master's Program provides additional training in economics beyond the undergraduate degree. It provides a degree of expertise that would not be obtained in an undergraduate education. This additional expertise enhances your prospects for a successful career in the private sector, and in governmental or international agencies.

The objective of the Doctoral Program is to offer advanced training in economic analysis. It provides an excellent background for a professional career at academic institutions, in the private sector, or in governmental and international agencies.

Master of Arts in Economics

To be admitted into the Master's degree program in Economics, a student must meet the University's graduate admission requirements and:

1. Have a Bachelor's Degree from an accredited institution.
2. Have a 'B' average (3.0) or higher during the last two years of undergraduate studies, and submit official Graduate Record Examination (GRE) scores. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.
3. Receive approval of the departmental graduate committee.
4. Have taken as prerequisites Statistics and Calculus I. Students who have not fulfilled all these prerequisites may be admitted on a provisional basis. Unless specifically exempted, such students must take these courses as required, obtaining no credit for them in the program.

Degree Requirements

The Master's degree program will consist of 30 semester hours of course work, at a graduate level (course numbers 5000 or above). A maximum of six semester hours may be transferred into the program subject to the approval of the graduate committee. All courses listed below carry 3 credits, except the thesis (6 credits). The specific requirements are:

Core Courses (21 credits)

All Master's students must take the following seven courses:

ECO 6112	Fundamentals of Microeconomic Theory	3
ECO 6204	Fundamentals of Macroeconomic Theory	3
ECO 6174	Microeconomics I	3
ECO 6019	Macroeconomics I	3
ECO 6405	Mathematical Economics	3
ECO 6420	Econometrics I	3
ECO 6425	Econometric II	3

Research Requirements: (3-6 credits)

Students must either write a thesis for 6 credits (ECO 6971), or take an advanced course in applied economics (7000-level or approved by the Graduate Director) which involves writing a research paper (3 credits).

Electives: (3-6 credits)

A student must take at least one elective in advanced field in economics. The additional course required to complete the Master's program may be taken in Mathematics, International Studies, Social Work, Criminal Justice, Public Administration, the College of Business Administration, or in the other college or schools of the University. The graduate director must approve courses taken outside the department. ECP 6705 and ECP 6432 do not count as electives.

Graduation Requirements

To receive the Master's degree in Economics, the student must complete 30 hours of course work with a 'B' (3.0) average or higher; and must receive a grade of 'C' or

higher in each course. If the student decides to write a thesis, he/she must receive the grade of 'P'(pass) for ECO 6971.

Combined BA/MA in Economics Pathway

The Combined Bachelor of Arts/Master of Arts (BA/MA) in Economics pathway is designed for outstanding undergraduate students. It provides a strong base of knowledge and skills in economics, and at the same time accelerates completion of the Master of Arts degree. Students may take advantage of the overlap of courses in the BA and MA pathway to receive their MA degree in a shorter period than it would otherwise be possible.

To be considered for admission to the combined bachelor's/master's degree pathway, students must have completed at least 75 credits in the bachelor's degree program at FIU and meet the admissions criteria for the graduate degree program to which they are applying. Students need only apply once to the combined degree pathway; the application is submitted to Graduate Admissions typically before the student starts the last 30 credits of the bachelor's degree program. A student admitted to the combined degree pathway will be considered to have undergraduate status until the student applies for graduation from their bachelor's degree program. Upon conferral of the bachelor's degree, the student will be granted graduate status and be eligible for graduate assistantships. Only 5000-level or higher courses, and no more than the number of credits specified by the program catalog, may be applied toward both degrees.

The BA program in economics requires that students take 9 upper division elective courses. Students in the BA/MA program would take elective courses that would satisfy both the BA and MA requirement.

To apply their GPA needs to be significantly above average (3.25). Students would also be required to maintain a high GPA (3.0) to remain in the pathway. The grade requirements for an MA in economics would apply to courses that are counted toward the MA degree.

Admission Requirements

1. Current enrollment in the Bachelor's degree program in economics at FIU.
2. Completed Calculus I (MAC 2311) or equivalents.
3. Current GPA of 3.25 or higher.
4. Three letters of recommendation.
5. Approval of the Graduate Committee.
6. Official GRE scores.

General Requirements

Meet the requirements of both the BA and the MA degree in economics.

Overlap: Up to 4 courses (12 credits) may be used in satisfying **both** the Bachelor's and Master's degree requirements in economics.

Doctor of Philosophy in Economics

The admission requirements to the Ph.D. program in Economics are:

1. Have a Bachelor's Degree from an accredited institution.

2. A minimum GPA of 3.0 for the last two years of undergraduate education and submit official Graduate Record Examination (GRE) scores. International graduate student applicants whose native language is not English are required to submit a score for the Test of English as a Foreign Language (TOEFL) or for the International English Language Testing System (IELTS). A total score of 80 on the iBT TOEFL or 6.5 overall on the IELTS is required.
3. Three letters of recommendation, using the form provided by the Department, from people in a position to judge the applicant's suitability for graduate studies in economics.
4. Receive approval of the departmental graduate committee.
5. Completion of the following courses at the undergraduate level: statistics, two semesters of calculus, and a semester of linear algebra. Unless exempted, the student must take these courses as required, obtaining no graduate credit for them in the program.

The GRE and GPA stated above are minimum requirements. All applications are reviewed by the Graduate Studies Committee, which makes the final admission decisions. Since admission to the program is competitive, the committee's requirements are normally higher than the minimum standards. Meeting the minimum requirements does not guarantee admission.

Degree Requirements

To obtain the Ph.D. in Economics, students must complete the required course work and fulfill dissertation requirements.

Ph.D. students who have satisfied the requirements for the Master's degree are eligible to receive the Master's degree. Ph.D. students who have satisfied the Master's degree requirements should consult with the Graduate Program Director about the necessary paperwork and procedure to receive the Master's degree in the course of their Ph.D. studies.

Coursework Requirements

Students must complete 42 hours (14 courses) of graduate level course work. Supervised research, independent study, seminars, and dissertation credit do not count towards this objective.

This required minimum of 14 courses consists of ten courses in the Core and four field courses.

No credit toward a graduate degree is given for any course in which a grade of 'C' or less is obtained. A graduate student who receives a grade lower than 'B-' in a course must retake that course; if a retake also results in a grade lower than 'B-', the student will not be permitted to continue in the Ph.D. Program. A graduate student who receives a grade lower than 'B-' in more than two courses will not be allowed to stay in the Economics Ph.D. Program.

Students are required to maintain a minimum GPA of 3.0 (of 4) in their coursework.

Core Courses

ECO 6112	Fundamentals of Microeconomic Theory	3
ECO 7115	Microeconomic Theory I	3
ECO 7116	Microeconomic Theory II	3
ECO 6204	Fundamentals of Macroeconomic	

	Theory	3
ECO 7206	Macroeconomic Theory I	3
ECO 7207	Macroeconomic Theory II	3
ECO 7405	Mathematical Methods in Economic Analysis I	3
ECO 7424	Econometric Methods I	3
ECO 7425	Econometric Methods II	3
ECO 7426	Econometrics III	3

Core Study

During the first four semesters, students are required to take courses which include the ten core courses listed above. Following the second semester, students are required to pass a comprehensive qualifying examination on core theory—(ECO 6112, ECO 7115, ECO 6204, ECO 7206). A student who fails twice will not be allowed to remain in the program. A student must receive at least a 'B' (3.0) average in the first four courses in order to participate in the comprehensive core theory qualifying examination.

Field Study

During the fourth and fifth semesters, students will complete course work in four field courses. Students must write a field paper. The field paper must be completed, presented in a workshop, and accepted by the student's field paper committee by the end of the third year. Students who fail twice their field requirements will not be allowed to continue in that field.

Dissertation Work

Upon completion of field paper requirement, students will be required to choose a specific area of doctoral research. During this phase, which will normally have a total length of two years, the student will:

- Conduct research and complete a dissertation
- Continue taking courses to complete a minimum of 15 credits of Advanced Workshop and 18 credits of dissertation.
- Attend Advanced Workshops by enrolling in ECO 7925 in the dissertation area and present at least one paper a year on the work in that workshop.

Students will normally be required to be enrolled as fulltime students at the University for at least a year during the dissertation period. Except under abnormal circumstances, the maximum number of years during which a student may do dissertation work is five years.

Graduation Requirements

To graduate, students must complete all course requirements; fulfill workshop presentation requirements, pass the comprehensive examination and have their field paper accepted, and complete the oral defense and acceptance of the Ph.D. dissertation.

Course Descriptions

Definition of Prefixes

ECO-Economics; ECP-Economic Problems and Policy; ECS-Economic Systems and Development.

F-Fall semester offering; S-Spring semester offering; SS Summer semester offering.

ECO 5206 Economics of Asia (3). Overview of the

opportunities and challenges presented by the Asian-Pacific economies.

ECO 5709 The World Economy (3). Designed to give an overview of the crucial issues in the world economy. The course covers trade, capital, labor, and technology flows; transnational economic organizations; current economic crisis; global economic interdependence; and the nature and characteristics of international economic order. Required for MIB Program. (S)

ECO 5735 Multinational Corporations (3). Economic theory and multinational corporations. Economic effects. Consequences of nationalization. Spread of the multinational form. State-owned multinational corporations. Prerequisite: Permission of the instructor for undergraduates. (S)

ECO 5906 Advanced Individual Study (1-6). Supervised readings, individual tutorial, and preparation of report. Requires consent of faculty supervisor and Department Chairperson. Open to seniors and graduate students.

ECO 5945 Internship (3). Directed individual study which assists the student in using economic analysis in his employment. Prerequisite: Permission of the chair.

ECO 6019 Macroeconomics I (3). Advanced macroeconomic analysis of income, employment, prices, interest rates and economic growth rates. Prerequisite: ECO 6204 or equivalent; Calculus I

ECO 6076 Teaching Economics (1). This course, required of all graduate assistants, is designed to introduce students to the pedagogical and practical aspects of teaching economics. It is coordinated with the Academy for the Art of Teaching.

ECO 6112 Fundamentals of Microeconomic Theory (3). Consumer theory, producer theory and the introduction of uncertainty and dynamics. Market equilibrium and welfare properties of perfect competition and monopoly. Public goods and externalities. Prerequisites: One semester of Calculus and Statistics.

ECO 6174 Microeconomics I (3). Microeconomic behavior of consumers, producers, and resource suppliers, price determination in output and factor markets, general market equilibrium. Prerequisite: ECO 6112 or equivalent, Calculus I

ECO 6204 Fundamentals of Macroeconomic Theory (3). Consumption, investment and growth; equity premium puzzle; taxation and social security; monetary policy rules, currency and inflation; the IS-LM model; real business cycles and models with nominal rigidities. Prerequisites: Calculus and Statistics.

ECO 6225 Economics of Asset Markets (3). Economic analysis of the asset markets; risk, return and intertemporal choice; mean variance analysis; asset pricing models and properties of asset returns; market efficiency and market anomalies. Prerequisites: Calculus or permission of the instructor.

ECO 6405 Mathematical Economics (3). Introduces the use of mathematical economic models, equilibrium analysis, linear algebra, comparative static analysis, optimization problems, and dynamic problems. Prerequisite: ECO 3101 and ECO 3203. or equivalents: Calculus I

ECO 6416 Applied Quantitative Methods in Economics (3). Types of economic data; the WWW as a tool for data collection; database construction and maintenance; use of statistical software for graphical and descriptive methods; large sample inference for one population mean vector; introduction to economic time series and regression models. Prerequisites: One semester of Calculus and Statistics or permission of the instructor.

ECO 6420 Econometrics I (3). An introduction to econometric methods focusing on the statistical foundation for estimation and inference in the classical regression model. Prerequisite: ECO 4410 or equivalent, Calculus I.

ECO 6425 Econometrics II (3). Introduces advanced concepts and methods employed in empirical economic analysis. Examines logit, probit, tobit, and categorical dependent variable models. Examines estimation of economic panel data. Prerequisite: ECO 6420.

ECO 6705 International Trade for Global Governance I (3). Designed for MA students in the Global Governance program, the course provides an introduction to the modern theory and application of the economics of international trade. Prerequisite: ECO 6025.

ECO 6716 International Macroeconomics for Global Governance (3). Designed for MA students in the Global Governance program, the course provides an introduction to the modern theory and applications of international macroeconomics. Prerequisite: ECO 6025.

ECO 6936 Special Topics (3). A course designed to give students a particular topic or a limited number of topics not otherwise offered in the curriculum.

ECO 6938 Individual Graduate Study (3-9). Supervised readings, tutorial, and preparation of report. Open only to graduate students. Requires consent of supervisor and approval of Department Chairperson.

ECO 6939 Advanced Seminar in Applied Economics (3). Variable-topic study group in application of economic analysis to specific problems. Open to seniors and graduate students. (S)

ECO 6971 Thesis (1-6). Writing and completion of thesis by candidate for a Master of Arts. Prerequisites: Student must be a Master's degree candidate, have had at least 15 hours of graduate work in economics; have a thesis topic approved by the Department's Graduate Committee and permission from the instructor.

ECO 7110 Industrial Organization: Firms (3). Theoretical and empirical analysis of firm organization and development. Topics include entrepreneurship, firm survival and evolution, spinoffs, industrial geography and dynamics. Prerequisites: ECO 6112 (or equivalent), ECO 7405 (or equivalent), and ECO 7424 (or equivalent).

ECO 7115 Microeconomic Theory I (3). Game theory. Analysis of static and dynamic games of complete and incomplete information. Introduction to contracts and mechanism design. Prerequisites: ECO 3101 or equivalent, Calculus I; Calculus II recommended. (F)

ECO 7116 Microeconomic Theory II (3). The General equilibrium and welfare economics. Economics of uncertainty. Economic dynamics including capital accumulation, optimal growth, and dynamic equilibrium.

Uncertainty and incomplete markets. Prerequisites: ECO 7115 and ECO 7405. (S)

ECO 7118 Graduate Seminar in Economic Theory (3). Variable-topic graduate study group in theoretical problems. Open only to students with graduate standing.

ECO 7135 Growth, Distribution and Prices (3). Alternative theories of growth, income distribution and prices. Basic growth models; neoclassical capital theory and Cambridge controversies; neo-Marxian, neo-Keynesian and other approaches. Prerequisites: ECO 7116, ECO 7207, ECO 7405.

ECO 7136 Classical and Marxian Economic Theory (3). Classical and Marxian theories of value and capital in a mathematical mode. The Transformation Problem. Simple and expanded reproduction. The falling rate of profit and other Marxian crises. Prerequisites: ECO 7115, ECO 7206, ECO 7405, ECO 7116.

ECO 7206 Macroeconomic Theory I (3). Analysis of macroeconomic models of income determination and the price level, microeconomic foundations of macro-behavior, macroeconomic models, and basic open economy macroeconomics. Prerequisites: ECO 3203, ECO 4410, or equivalents; Calculus I; Calculus II recommended. (F)

ECO 7207 Macroeconomic Theory II (3). Alternative approaches to macroeconomic theory. Business cycle theories and theories of growth and income distribution. Prerequisites: ECO 7115, ECO 7206, ECO 7405.

ECO 7216 Monetary Theory and Policy (3). Relationship of money supply and interest rate to economic stabilization. Consideration of federal reserve system, money market, and factors determining money supply and demand. Neo-Keynesian, Chicago, and radical policy views.

ECO 7236 Money, Banking, and Monetary Policy (3). Monetary theory and its application. Consideration of central banking in the U.S. and its relation to the international economy, money markets, and financial intermediaries. Survey of current policy views.

ECO 7305 History of Economic Thought (3). Exploration of the evolution of economic thought and analysis in the changing socio/historical, institutional and political setting in which it takes place. Prerequisite: Permission of the instructor. (S)

ECO 7405 Mathematical Methods in Economic Analysis I (3). Application of mathematical methods to economics. The topics and tools of mathematical economics are presented in a rigorous fashion within an economic context. Prerequisites: Calculus I, ECO 3101 and ECO 3203, or equivalents. (F)

ECO 7406 Mathematical Methods in Economic Analysis II (3). Selected topics in dynamic optimization and related topics, focusing on applications to economic problems and covering modeling in both continuous and discrete time. Prerequisites: ECO 6112, ECO 6204, ECO 7405.

ECO 7408 Industrial Organization: Markets (3). Analysis of the structure, behavior, and performance of industries and markets, and core issues in competition and regulatory policy. Prerequisites: ECO 6112 (or equivalent), ECO 7405 (or equivalent).

ECO 7424 Econometric Methods I (3). Formulation, estimation, evaluation of econometric models. Includes: review probability theory, OLS, properties of estimators, asymptotics, hypothesis tests, violations of classical assumptions, IV. Prerequisites: MAS 3105, ECO 7405. (S)

ECO 7425 Econometric Methods II (3). Builds on ECO 7424. Advanced single equation estimation, numerical estimation, maximum likelihood, GMM, test procedures, non-linear models, systems of equations, and simultaneous equations models. Prerequisite: ECO 7424. (F)

ECO 7426 Econometrics III (3). Continuation of ECO 7425. Topics include multivariate models, times series models, panel data models, test procedures and model selection. Prerequisite: ECO 7425.

ECO 7429 Topics in Econometrics (3). Selected topics in econometrics. Intended to acquaint students with current research in the field. Material covered will vary from year to year with instructor. Prerequisites: ECO 7424 and ECO 7425.

ECO 7505 Public Finance (3). Partial and general equilibrium analysis of tax incidence efficiency, public goods, public pricing problems, the social rate of discount, and non-market decision making.

ECO 7617 Seminar in Economic History (3). Topics in economic history, exploration of the economic history literature on a selected theme, student presentations. Prerequisite: Permission of the instructor for undergraduates.

ECO 7705 International Trade (3). Positive and normative aspects of international trade. Theories of comparative advantage, commercial policy, trade and income distribution. Prerequisites: Advanced Microeconomic Theory; Calculus. (F)

ECO 7716 International Money (3). Theory of international monetary equilibrium. Problems of international payments and exchange rate control; their effect on international monetary problems. Analysis of short and long term monetary flows and macroeconomic adjustment. Prerequisites: Advanced Macroeconomics and Calculus. (S)

ECO 7717 Applied International Economics (3). Empirical international finance and international trade. Includes national accounts, exchange rates, dynamic stochastic general equilibrium models, variable markups, and gravity type methodologies. Prerequisites: ECO 7115, ECO 7206, ECO 7705, ECO 7716.

ECO 7925 Advanced Workshop (3). Enables students to attend advanced workshop presentations and to present the results of their own research. Prerequisite: Completion of field examination requirements. (F,S)

ECO 7980 Ph.D. Dissertation (1-12). To be taken every semester for research on, and writing of Ph.D. dissertation by candidates for the Ph.D. Prerequisite: Permission of Major Professor and Doctoral Candidacy.

ECP 5707 International Economic Problems & Policy (3). International trade and comparative advantage; commercial policy; foreign exchange markets; balance of payments; issues in trade & development. Prerequisites: ECO 2013 or ECO 3011, and ECO 2023 or ECO 3021.

ECP 6305 Advanced Environmental Economics (3). Economics of environmental pollution; theories of exhaustible and renewable resource extraction; issues in environmental valuation and policies. Prerequisites: ECP 3101 and ECP 3302 or ECP 4314 or permission of the instructor.

ECP 6432 Macroeconomic Forecasting for Management (3). Basic macroeconomics concepts as they apply to decision making within the firm. Traditional models of income determination and forecasting analysis. Prerequisite: ECP 6705. (F,S,SS)

ECP 6605 Urban and Regional Analysis (3). Application of economic analysis to urban growth and the urban/regional environment. Consideration of public services, transportation, ghetto problems, and urban organization. Analysis of environmental protection problems and policies. Recommended preparation: ECO 3101, ECO 3203 and ECP 3303.

ECP 6705 Managerial Economics (3). Basic microeconomic concepts as they apply to decision making within the organization; supply and demand; market structure and market behavior in specific industries. Recommended Preparation: Principles of Microeconomics and Calculus. Prerequisites: ECO 3021 and ECO 3011. (F,S,SS)

ECP 7035 Cost-Benefit Analysis (3). This course covers benefit-cost analysis, cost-effectiveness analysis, benefit risk analysis, risk-risk analysis, and systems analysis. All of these techniques are designed to provide guidance to decision makers, particularly in the government sector. Prerequisite: ECO 3101.

ECP 7205 Labor and Human Resources (3). Empirical and theoretical analysis of the factors determining employment and earnings, recent developments in the theory of labor supply, critiques of neoclassical theory, and current issues in public policy. Prerequisite: Calculus.

ECP 7405 Industrial Organization (3). The organization of the industrial economy with particular emphasis as to the type of competition, the bases of monopoly power and the extent of monopoly power. Prerequisites: Advanced Micro and Calculus.

ECP 7606 Urban and Regional Economics (3). The economics of urbanization processes, internal organization of cities, and regional settlement. Spatial growth models and spatial development planning. Prerequisites: ECO 7115, ECO 5205, ECS 4013 or equivalent; and ECO 6636. (F)

ECP 7636 Location Theory (3). Systematic exposition of urban and industrial location theory. Spatial price theory and spatial competition. Prerequisites: ECO 3101 or equivalent; Calculus I; Calculus II and ECO 7115 recommended. (S)

ECP 7706 Managerial Economics (3). Analysis of the economic decisions of firm managers, emphasizing the practical application of concepts to economic problem solving by managers, public administrators and other decision makers. Prerequisites: Ph.D. or advanced Masters.

ECS 5005 Comparative Economic Systems (3). A critical evaluation of the design, goals, and achievements of economic policies in capitalist and socialist economies.

Prerequisite: Permission of the instructor for undergraduates.

ECS 5025 Economic Planning (3). Analysis of planning methods in capitalist and socialist economies. Evaluation of macro and micro economic planning tools (input-output) and programming techniques. Theory and practice of economic development planning of agriculture, industrialization, foreign trade, and manpower. Prerequisites: Graduate standing or permission of the instructor.

ECS 5027 Economic Development of Emerging Nations (3). Specific economic problems of emerging nations and national groupings. Basic approaches to economic development; major proposals for accelerating development. Role of planning. Trade, aid, and economic integration. (F)

ECS 5406 Latin American Economies (3). Economic theory and its applications to current economic issues of Latin America. Examines aggregate demand and supply, fiscal and monetary policies, international trade trends, and economic development. Taught in Spanish. May not be taken for credit towards a degree in Economics.

ECS 6015 Economic Development for Global Governance I (3). Designed for MA students in the Global Governance program, the course provides training in applied development economics. Prerequisite: ECO 6025.

ECS 6016 Economic Development for Global Governance II (3). Designed for MA students in the Global Governance program, the course provides training in applied development economics. Prerequisites: ECO 6025, ECS 6015.

ECS 6436 The Economics of Caribbean Migration (3). The course examines the economic causes and consequences of Caribbean immigration to the United States. Special emphasis on the effects of Caribbean migration on the United States economy.

ECS 7015 Development Economics: Theory (3). Analytical approaches to economic development. Analysis of macro models, specific resources and sectors, and trade and income distributional problems in relation to developing countries. Prerequisites: ECO 7115 and ECO 7116 or equivalents. (F)

ECS 7026 Development Economics: Planning and Policy (3). Planning and policy making in developing economies. Economy/wide planning models; project appraisal; financial, stabilization and trade policies. Prerequisites: ECO 7115, ECO 7116, and ECO 7405. (S)

ECS 7405 Economics of Latin America (3). Dependence, population explosion, urban migration, agricultural reform, industrialization and import substitution, common markets. Prerequisite: Permission of the instructor for undergraduates.

ECS 7435 Economics of the Caribbean (3). Macroeconomic assessment; income distribution, employment and migration; industrial and agricultural development; international trade, multinational and integration attempts. Prerequisite: Permission of the instructor.

ECS 7445 Economics of Central America (3). Recent economic events in the region dealing with institutional

background and structure of current economic activities. Special emphasis on problems of growth, social transformation and economic integration. Prerequisite: Permission of the instructor. (F)