The recent financial crisis vividly illustrates the vital need for improved understanding of important economic problems and to provide the tools needed for the critical analysis of these problems and for dealing with them in practice.

On the undergraduate level, the department provides both for those who want to become professional economists and for those interested in a specialty related to economics, such as business, law, government, history, health care management, or environmental engineering. Still other students are simply interested in improving their understanding of society or making informed assessments of economic policies as citizens or making wise decisions about personal finances.

On the graduate level, the department provides advanced training for students preparing for careers as professional economists. The program encompasses such fields as macroeconomics, microeconomic theory, econometrics, labor economics, international economics, industrial organization, economic development, and finance, with an emphasis on the application of economic theory and quantitative methods. Because of the small number of graduate students admitted, they can work closely with faculty in graduate courses and seminars, and have easy and informal access to faculty members.

Financial Aid
The department offers a Departmental Fellowship to all enrolled students. This fellowship covers full tuition costs plus an annual stipend of $29,000 and full student health insurance coverage. During a student’s first year of study, this fellowship support is provided with no teaching assistantship duties. Beginning in the second year of study, students who are performing satisfactorily, will again receive the same Departmental Fellowship coverage as in their first year. In addition, during years 2, 3, 4 and 5, this will involve a teaching or research assistantship assignment. The department guarantees financial support for a minimum of five years of graduate study, conditional on satisfactory performance and potentially a sixth year as well depending on student performance and the availability of funds.

Carl Christ Fellowship
In the academic year 1989–90, the department established the Carl Christ Fellowship fund to honor one of its faculty members for his distinguished service and achievements. The proceeds of the fund are used to support outstanding graduate students at the dissertation stage of their research.

For further information about graduate study in economics, contact the director of graduate admissions, Department of Economics at econadmissions@jhu.edu.

Center for Financial Economics (CFE)
Founded in 2008 and housed in the Economics Department in the Krieger School of Arts and Sciences at Johns Hopkins, the Center for Financial Economics blends the study of finance and economics, providing in-depth training and cutting-edge research in both. The dual research and teaching missions of the Center are premised on the belief that a deep understanding of modern economies requires an integrated treatment of finance and the broader economic forces driving economic progress. The recent financial crisis vividly illustrates the vital need for improved understanding of these issues on the part of practitioners, policymakers, and academics.

The CFE offers an undergraduate minor, producing expertise in finance within the context of a top-notch liberal arts education. The minor will equip students with a thorough foundation in the workings of financial markets and their role in the broader economy, providing a foundation for careers in finance, business, academics, and government. The Center is working toward offering a financial economics major and a Ph.D. in financial economics.

Programs
- Economics, Bachelor of Arts (http://e-catalog.jhu.edu/arts-sciences/full-time-residential-programs/degree-programs/economics/economics-bachelor-arts/)
- Economics, Minor (http://e-catalog.jhu.edu/arts-sciences/full-time-residential-programs/degree-programs/economics/economics-minor/)
- Economics, PhD (http://e-catalog.jhu.edu/arts-sciences/full-time-residential-programs/degree-programs/economics/economics-phd/)
- Financial Economics, Minor (http://e-catalog.jhu.edu/arts-sciences/full-time-residential-programs/degree-programs/economics/financial-economics-minor/)

For current course information and registration go to https://sis.jhu.edu/classes/

Courses
AS.180.101. Elements of Macroeconomics. 3 Credits.
An introduction to the economic system and economic analysis, with emphasis on total national income and output, employment, the price level and inflation, money, the government budget, the national debt, and interest rates. The role of public policy. Applications of economic analysis to government and personal decisions. Prerequisite: basic facility with graphs and algebra.
Area: Social and Behavioral Sciences

AS.180.102. Elements of Microeconomics. 3 Credits.
An introduction to the economic system and economic analysis with emphasis on demand and supply, relative prices, the allocation of resources, and the distribution of goods and services, theory of consumer behavior, theory of the firm, and competition and monopoly, including the application of microeconomic analysis to contemporary problems.
Area: Social and Behavioral Sciences

AS.180.203. Faculty Research in Economics. 1 Credit.
This course will consist of a series of informal lectures by various professors in the Department of Economics. Each lecture will consist of a description of a professional research project which he/she has undertaken over the course of his/her professional career.
Prerequisite(s): AS.180.101 and AS.180.102, both may be taken concurrently.
AS.180.210. Migrating to Opportunity? Economic Evidence from East Asia, the U.S. and the EU. 3 Credits.
Increased mobility of people across national borders, whether by choice or by force, has become an integral part of the modern world. Using a comparative perspective and an applied economics approach, the course explores the economic and political determinants, and (likely) consequences of migration flows for East Asia, the US and the EU. Lectures, assignments and in class discussions, will be built around the following topics: i) migrants' self-selection; ii) human capital investment decision-making; iii) remittance decisions and effects; iv) impacts on labor markets of both receiving and sending countries; and v) the economic benefits from immigration. Overall, the course will give students perspective on the why people choose or feel compelled to leave their countries, how receiving countries respond to migrants' presence, and the key economic policy concerns that are influencing the shaping of immigration policy in East Asia, the US, and the EU.
Prerequisite(s): AS.180.101 AND AS.180.102
Area: Social and Behavioral Sciences

AS.180.214. The Economic Experience of the BRIC Countries. 3 Credits.
In 2001, Jim O'Neill, the Chief Economist at Goldman Sachs, coined the acronym BRIC to identify the four large emerging economies, Brazil, Russia, India and China. These economies have since had an amazing run, and have emerged as the biggest and fastest growing emerging markets. In this course, we look at the economic experiences of the BRIC countries for the past 50 years. We discuss the reasons that have contributed to their exceptional growth rates, with particular emphasis on their transformation into market economies. We also analyze the challenges that these countries continue to face in their development process.
Prerequisite(s): AS.180.101 AND AS.180.102
Area: Social and Behavioral Sciences

AS.180.217. Game Theory in Social Sciences. 3 Credits.
Game Theory is the study of multiple person decision problems in which the well-being of a decision maker depends not only on his own actions but also on those of others. Such problems arise frequently in economics, political science, business, military science and many other areas. In this course, we will learn how to model different social situations as games and how to use solution concepts to understand players' behavior. We will consider various examples from different fields and will play several games in class. The emphasis of the class is on the conceptual analysis and applications and we will keep the level of mathematical technicalities at the minimum – high school algebra and one term of calculus will be sufficient. Students who took AS.180.117 are not eligible to take AS.180.217.
Prerequisite(s): Students may not have previously taken AS.180.117.; AS.180.102 or instructor permission
Area: Social and Behavioral Sciences

AS.180.221. The Informal Economy: Who Wins, Who Loses, and Why We Care About It. 3 Credits.
The informal economy is one of the most complex economic and political phenomena of our time. It exists in rich and poor countries alike, currently employs almost half of the world's workers, about 1.8 billion people, and totals to economic activity of around $10 trillion. If the informal economy were an independent nation, it would be the second-largest economy in the world, after the United States and before China. In today's globalizing environment, are informal economies a poverty trap or an engine of growth? Do they stimulate entrepreneurship and popular empowerment, or promote exploitation? How does an improved understanding of the size and organization of informal economies affect service provision, social policy or taxation? What are the implications of the informal economy for social cohesion and popular politics? The proposed course will address these (as well as other) questions related to the informal economy to offer students an understanding of such complex phenomenon from a variety of perspectives. The course will comprise three parts. Part 1 will explore the complexities of the informal economy, and the effects of informality on policies of inclusive growth. Part 2 will draw on empirical evidence and comparative case studies to examine informal economies in various regions, including Africa, East Asia, North and South America, and Europe, highlighting variations in activities, relations with the state, global integration and economic outcomes. Finally, Part 3 will discuss the ongoing economic policy shift from punitive measures to accepting informality as a virtual space through which citizens flow from job-seeker to compliant entrepreneurs.
Prerequisite(s): AS.180.101 AND AS.180.102
Area: Social and Behavioral Sciences

AS.180.228. Economic Development. 3 Credits.
A comprehensive survey of economic behavior by households, farms and firms in poor countries and the role of and for governments. Discussions include measurement of income levels, economy-wide equilibrium, sources of growth, agriculture and industry, international trade and investment, savings, population, fertility, education, health, income distribution and public finances. Applies economic theory rigorously to interpret and evaluate the economic experience of poor countries. Diagnostic test on Elements of Economics is required in the second week. Grading based on 3 exams and one paper.
Prerequisite(s): AS.180.101 AND AS.180.102
Area: Social and Behavioral Sciences

Writing Intensive

AS.180.231. Debates in Macroeconomics. 3 Credits.
This course covers some of the more contentious current debates in macroeconomics. Topics include: the recent tax reform (who gains and for how long?); unconventional monetary policies (have they helped?); modern monetary theory (sound doctrine or hokum?); secular stagnation (the right diagnosis?); backlash against globalization (warranted? unprecedented?); immigration (economic bane or boon?); rising income inequality (causes? consequences? pervasiveness?). Students will use the tools of economics to analyze these and other pressing issues. Though definitive answers may prove elusive, sound economic analysis can shed considerable light, not least by unmasking the political biases that often drive protagonists on both sides of these debates.
Prerequisite(s): AS.180.101 AND AS.180.102
Area: Social and Behavioral Sciences
AS.180.233. **Economics of Transition and Institutional Change.** 3 Credits.
This course will introduce students to the comparative analysis of institutions of existing capitalist systems and to the historical evolution of those institutions. By comparing the economic systems of different nations, we will try to reveal the institutional setups that either contribute or hinder economic performance. We will also examine the process of countries transforming their economies and investigate the factors that determine the differences in reforms’ outcomes between countries.
Prerequisite(s): AS.180.101 AND AS.180.102
Area: Social and Behavioral Sciences
Writing Intensive

AS.180.238. **Rethinking Economics After the Great Recession.** 3 Credits.
The financial crisis that began in the United States in 2007 threw virtually the entire world into recession. This class will look at the causes of the crisis and at how it unfolded. It will look into the conventional wisdom of economists, circa 2006, and why that wisdom proved to be so wrong. It will examine the financial innovations that contributed to the crisis, at the reasons financial regulators were blindsided, and at the reforms enacted after the crisis.
Prerequisite(s): AS.180.101 AND AS.180.102
Area: Social and Behavioral Sciences
Writing Intensive

AS.180.239. **Urban Economics.** 3 Credits.
This course introduces students to the major ideas of modern urban economics focused on the causes and consequences of urban economic growth, urban poverty and a city’s quality of life. We will analyze basic questions such as: Why is Silicon Valley in Silicon Valley? Why did Beijing become so polluted? Why is crime high in Baltimore? Why does rich San Francisco face a homelessness challenge? The role of federal, state, and local government in urban life will be explored.
Prerequisite(s): AS.180.102
Area: Social and Behavioral Sciences
Writing Intensive

AS.180.240. **JHU Bologna: History of Banking.** 3 Credits.
Economics course offered on the JHU Summer Program in Bologna. Permission required. Must be taken for a letter grade. Open to students on the JHU/Bologna summer program only.
Area: Social and Behavioral Sciences

AS.180.241. **International Trade.** 3 Credits.
Theory of comparative advantage and the international division of labor: the determinants and pattern of trade, factor price equalization, factor mobility, gains from trade and distribution of income, and theory and practice of tariffs and other trade restrictions. Recommended Course Background: AS.180.101.
Prerequisite(s): AS.180.101 AND AS.180.102
Area: Social and Behavioral Sciences

AS.180.242. **International Monetary Economics.** 3 Credits.
This course presents International Monetary Economics theory and applies it towards gaining an understanding of recent events and current policy issues. The theory presented in this course covers a broad range of topics including exchange rate determination, monetary and fiscal policy in an open economy, balance of payments crisis, the choice of exchange rate, and international debt. The insights provided by these theoretical frameworks will enable us to discuss topics such as the global financial crisis, global financial imbalances, the Chinese exchange rate regime, and proposed changes in the international financial architecture.
Prerequisite(s): AS.180.101 AND AS.180.102
Area: Social and Behavioral Sciences

AS.180.244. **Market Design.** 3 Credits.
We will study how the rules of a market impact behavior, and in turn whether this behavior leads to (un)desirable outcomes. We will cover how the lessons learned from both successful and failing markets have been used by economists to design new markets. It will help us address questions such as: (i) Can economics help with the shortage of donated kidneys? (ii) How should a ride share service assign cars to clients? (iii) Can changing the way school seats are assigned change the welfare of students in a city? The material is intended to be as accessible as possible, keeping the mathematical technicalities to a minimum (i.e. one-term of calculus would be sufficient).
Prerequisite(s): AS.180.102
Area: Social and Behavioral Sciences

AS.180.246. **Environmental Economics.** 3 Credits.
This course presents a broad overview of the key issues in modern environmental economics with a focus on understanding and solving urban pollution challenges in developed and developing nations. This course explores how cities and nations can achieve the ‘win-win’ of economic growth and reduced urban pollution. Special attention is paid to the incentives of households, firms and governments in reducing the production of pollution. The course examines a number of pollution challenges including: air, water, noise, garbage and the global challenge of climate change.
Area: Humanities

AS.180.248. **Financial Writing and Analysis.** 3 Credits.
There is an immense chasm between economic and financial commentary in academic discussions and that provided by private sector analysts and the press. Some of the difference is merely semantic, but much of the difference has real substance. Academic and nonacademic commentators tend to simply write off the other as being clueless in some way. Sorting out which bits of each style of analysis are most valuable and synthesizing them into a coherent commentary is a rare and valuable skill. This is a hands-on course with a goal of building skills reading and writing commentary in financial economics. The course begins critically studying commentary regarding prominent topics in the news over the recent months and then moves to writing ‘explainer’ pieces for publication on the Center for Financial Economics blog. Students will work in teams both analyzing commentary, and writing and critiquing the work of fellow students.
Prerequisite(s): AS.180.101 AND AS.180.102
Area: Social and Behavioral Sciences
Writing Intensive

AS.180.252. **Economics of Discrimination.** 3 Credits.
This course examines labor market discrimination by gender, race and ethnicity in the United States. What does the empirical evidence show, and how can we explain it? How much of the difference in observed outcomes is driven by differences in productivity characteristics and how much is due to discrimination? How have economists theorized about discrimination and what methodologies can be employed to test those theories? What has been the impact of public policy in this area, how do large corporations and educational institutions respond; and what can we learn from landmark lawsuits? The course will reinforce skills relevant to all fields of applied economics, including critical evaluation of the theoretical and empirical literature, the reasoned application of statistical techniques, and analysis of current policy issues.
Prerequisite(s): AS.180.102
Area: Social and Behavioral Sciences
Writing Intensive
AS.180.260. Real Estate Economics and Finance. 3 Credits.
An introduction to the economic analysis of real estate markets. Various perspectives will be considered, including individual homeowners and renters, investors and financiers, and policymakers. Topics include the determinants of property valuations, financing considerations, real estate development, and analysis of real estate as an investment class. The course qualifies as an elective for the Financial Economics Minor.
Prerequisite(s): AS.180.101 AND AS.180.102
Area: Social and Behavioral Sciences

AS.180.261. Monetary Analysis. 3 Credits.
This course analyzes the financial and monetary system of the U.S. economy and the design and implementation of U.S. monetary policy. Among other topics, we will examine the role of banks in the economy, the term structure of interest rates, the stock market, the supply of money, the role of the Federal Reserve in the economy, the objectives of monetary policy in the United States and current monetary policy practice.
Prerequisite(s): AS.180.101 AND AS.180.102
Area: Social and Behavioral Sciences

AS.180.263. Corporate Finance. 3 Credits.
This course is an introduction to the financial management of a corporation. Students study the following broad questions. How should a firm decide whether to invest in a new project? How much debt and equity should a firm use to finance its activities? How should a firm pay its investors? How do taxes affect a firm's investment and financing decisions? What determines the value of a firm? The emphasis throughout the course is on the economic principles that underlie answers to these questions.
Prerequisite(s): AS.180.101 AND AS.180.102
Area: Social and Behavioral Sciences

AS.180.266. Financial Markets and Institutions. 3 Credits.
Understanding design and functioning of financial markets and institutions, connecting theoretical foundations and real-world applications and cases. Basic principles of asymmetric information problems, management of risk. Money, bond, and equity markets; investment banking, security brokers, and venture capital firms; structure, competition, and regulation of commercial banks. Importance of electronic technology on financial systems.
Prerequisite(s): AS.180.101 AND AS.180.102
Area: Social and Behavioral Sciences

AS.180.268. Seminar on Financial Regulation. 3 Credits.
This course examines regulation of the financial system in the United States and its effects on the economy. It considers proposals for reform and the ongoing implementation of the Dodd-Frank Act of 2010. A major part of the course will be student research projects and class discussion of the projects.
Area: Social and Behavioral Sciences

AS.180.280. The History and Future of the Hedge Fund Industry. 3 Credits.
The precursors to modern hedge funds began more than 50 years ago, but in the 1990s the hedge fund, or alternative investments, industry began a period of rapid growth and evolution. With growth came controversy. Some argue that hedge funds, by allowing immense amounts of capital to be rapidly and freely deployed, play a vital role in pushing prices toward the efficient markets ideal. Others claim that hedge funds may accentuate speculative price dynamics, threatening the stability of the financial sector. While many hedge funds claim to offer outstanding returns to investors, data suggest that many clients end up paying high fees for unspectacular results. This course examines these and other controversies, while tracing the history of the alternative investments industry over the last 25 years.
Prerequisite(s): AS.180.101 AND AS.180.102 AND (AS.180.266 OR AS.180.263 OR AS.180.367)
Area: Social and Behavioral Sciences

AS.180.285. Information and Investing Seminar. 3 Credits.
The course will seek to discuss and illuminate the information (news reports, industry reports, government statistics, and proprietary indicators) that investors use to make investment decisions. The course will be conducted in the framework of a weekly investment committee format wherein information is processed to maximize an investment portfolio’s return to risk. Each class will be conducted in two parts. The first part will require students to share with the class information gathered from their assigned specialty (e.g.: fixed income, equities, emerging markets, commodities) and the second part will require group interaction as to what decisions need to be made to a hypothetical portfolio in order to maximize objectives. The course will require regular reading of financial and economic news as well as numerous assigned industry and academic research related to global finance. Other: this course will require quite a bit of reading and regular interaction in group discussion and with the instructor.
Prerequisite(s): AS.180.280 or permission of instructor Kevin Heerdt or Robert Barbera
Area: Social and Behavioral Sciences

AS.180.289. Economics Of Health. 3 Credits.
Application of economic concepts and analysis to the health services system. Review of empirical studies of demand for health services, behavior of providers, and relationship of health services to population health levels. Discussion of current policy issues relating to financing and resource allocation.
Prerequisite(s): AS.180.102
Area: Social and Behavioral Sciences

AS.180.301. Microeconomic Theory. 4.5 Credits.
An introduction to the modern theory of allocation of resources, starting with the theories of the individual consumer and producer, and proceeding to analysis of systems of interacting individuals, first in the theory of exchange, then to systems which include production as well.
Prerequisite(s): AS.180.102 AND (AS.110.106 OR AS.110.107 OR AS.110.108 OR AS.110.109) OR equivalent.; AS.180.101 may be taken concurrently.
Area: Social and Behavioral Sciences
AS.180.302. **Macroeconomic Theory. 4.5 Credits.**
The course provides a treatment of macroeconomic theory including a
static analysis of the determination of output, employment, the price
level, the rate of interest, and a dynamic analysis of growth, inflation, and
business cycles. In addition, the use and effectiveness of monetary and
fiscal policy to bring about full employment, price stability, and steady
economic growth will be discussed.
**Prerequisite(s):** AS.180.101 and (AS.110.106 or AS.110.107 or
AS.110.108 or AS.110.109); AS.180.102 can be taken at the same time as
AS.180.302.
**Area:** Social and Behavioral Sciences

AS.180.303. **Topics in International Macroeconomics and Finance. 3
Credits.**
The course will review selected topics in international macroeconomics
and finance. The topics for the Fall of 2019 include: financial
globalization; international portfolio diversification; capital account
liberalization and the choice of the exchange rate regime in emerging
markets; the global financial safety net; macroeconomic adjustment in
the euro area.
**Prerequisite(s):** AS.180.101 AND AS.180.102 AND AS.180.302
**Area:** Social and Behavioral Sciences

AS.180.309. **Economics of Uncertainty and Information. 3 Credits.**
In this course we'll discuss the theory of decision making in the face of
risk, the theory of risk aversion and its applications to financial and
insurance markets. Building on the theory of individual decision making
under risk, we will study the economic implications of asymmetric
information, the type of market failures produced by adverse selection
and moral hazard problems, and the models that were advanced to
analyze these problems, including incentive contracts, screening and
signaling equilibria.
**Prerequisite(s):** AS.180.301 OR AS.180.401

AS.180.310. **Economics Of Antitrust. 3 Credits.**
This course explores the economic rationale for, and consequence of,
antitrust laws. In addition to economic analysis we will study landmark
antitrust cases.
**Prerequisite(s):** AS.180.301 OR AS.180.401
**Area:** Social and Behavioral Sciences
Writing Intensive

AS.180.312. **Evaluating Public Policy: Experimental and Quasi-
Experimental Research Design in Social Science. 3 Credits.**
The purpose of the course is to show how experimental, quasi-
experimental and non-experimental methods can be used to advance
scientific knowledge about topics in economics. It will teach students
the empirical techniques required to analyze experimental and non-
experimental data to draw causal inference. The course will begin
with a primer on the use of experimental methods in economics,
specifically in the context of evaluating welfare programs and labor
market policies. Students will then proceed to learn the empirical
methods that can be employed to establish cause and effect, both when
data is obtained through a randomized control trial (experimental data),
or when randomization occurs naturally (quasi-experimental data). The
tools and topics that are covered will not only be relevant to economics
students, but will also be of interest to students from other social science
departments.
**Prerequisite(s):** AS.180.301 AND (EN.550.420 OR EN.550.310 OR
EN.550.112 OR EN.550.113 OR EN.550.211 OR EN.550.311 OR
EN.550.430 OR EN.550.435 OR EN.550.111 OR AS.280.345)
**Area:** Social and Behavioral Sciences
Writing Intensive

AS.180.314. **Mathematical Economics. 3 Credits.**
This course traces the extent to which modern economic theory,
pertains to pure competition in market and non-market
games under the rationality postulate.
**Prerequisite(s):** AS.180.301
**Area:** Quantitative and Mathematical Sciences, Social and Behavioral
Sciences

AS.180.315. **Housing Problems and Policy: An Economics
Perspective. 3 Credits.**
This course uses economic theory and econometric research approaches
as a lens on housing issues and policy. Housing is at the center of the
effects of segregation and the Great Recession, and bears a significant
connection to the labor market as well. This course briefly explores
microeconomic theory specifically relevant to the housing market,
then uses readings from academic social science literatures to dive
deeper into these issues and others. Finally, students will examine public
housing policies, using the literature and proposing statistical techniques
to assess their effectiveness. The course will improve the understanding
and use of basic econometric techniques with respect to policy questions
as well as the ability to critically read academic literature.
**Prerequisite(s):** (AS.180.301 OR AS.180.401) AND (EN.550.420 OR
EN.550.310 OR EN.550.112 OR EN.550.113 OR EN.550.211 OR
EN.550.311 OR EN.550.430 OR EN.550.435 OR EN.550.111 OR
AS.280.345)
**Area:** Social and Behavioral Sciences

AS.180.317. **Economics of Fixed Income Instruments. 3 Credits.**
Students study economic principles and state-of-the-art mathematical
models used to value fixed income securities and their derivatives. The
course emphasizes advanced practical applications as well as theory.
Students will develop their own computer code to price fixed-income
instruments and evaluate their risks. Students must be familiar with both
statistics and differential equations.
**Prerequisite(s):** AS.180.301 AND (EN.550.111 OR EN.550.112 OR
EN.550.310 OR EN.550.420 OR EN.550.430) AND (AS.110.302 OR
EN.550.291) or permission of the instructor
**Area:** Social and Behavioral Sciences

AS.180.334. **Econometrics. 3 Credits.**
Introduction to the methods of estimation in economic research. The
first part of the course develops the primary method employed in
economic research, the method of least squares. This is followed by an
investigation of the performance of the method in a variety of important
situations. The development of a way to handle many of the situations
in which ordinary least squares is not useful, the method of instrumental
variables, concludes the course.
**Prerequisite(s):** AS.180.301 OR AS.180.401, may be taken
concurrently. One semester of calculus, AS.280.345 OR EN.540.305
OR EN.553.211 OR EN.553.111 OR EN.553.310 OR EN.553.311 OR
EN.553.420 OR EN.560.435 OR EN.560.348 OR EN.553.112
**Area:** Quantitative and Mathematical Sciences, Social and Behavioral
Sciences

AS.180.336. **Macroeconomic Strategies. 3 Credits.**
Will sketch out a strategy for anticipating economic turning points.
Business cycle basics, monetary policy/financial market/real economy
interactions will be reviewed. Long-term growth issues will be explored.
**Prerequisite(s):** AS.180.101 AND AS.180.102 AND AS.180.302 or
instructor permission.
**Area:** Social and Behavioral Sciences
AS.180.338. Political Economy and Development. 3 Credits.
Good governance is associated with desirable outcomes across countries and societies: higher life satisfaction, greater income per capita, lower child mortality, longer life expectancy, less disease, etc. But these statistical associations in the data are not sufficient to establish either that good governance truly causes such societal outcomes, or what types of policies produce them. This course asks: What are the determinants of good governance? Is good governance 'good' beyond its intrinsic desirability? If so, how? We use a data-driven approach, focusing on quantitative empirical methods and their applications to policy. The goal is to develop skills to be savvy consumers, as well as producers, of policy-relevant evidence related to issues of governance, in rich and poor countries alike. Topics will include: democracy, corruption, conflict, culture, mass media, quotas, and foreign aid.
Prerequisite(s): AS.180.301 OR AS.180.401 AND AS.180.334
Area: Social and Behavioral Sciences

AS.180.345. Rationality: Meaning and Measurement. 3 Credits.
Economists generally work with a number of classic models of how people behave in different contexts. These models (such as utility maximization and expected utility maximization) are widely used because they are tractable and elegant, but are they also accurate models of human behavior? In this course, we will examine the axiomatic foundations of these models, explore their implications for choice behavior, and discuss the empirical and experimental strategies economists have developed to test these models.
Prerequisite(s): AS.180.301
Area: Social and Behavioral Sciences

AS.180.351. Labor Economics. 3 Credits.
The course discusses various issues in labor markets from the perspective of economic theory. We first study the major forces at work that shape labor market behavior; firms’ labor demand and workers’ labor supply. Then we discuss the equilibrium behavior of employment and wages. Using these tools, we also cover various applied topics in labor economics, such as minimum wage regulations, male-female wage differentials, human capital investment, worker mobility, and unemployment.
Prerequisite(s): AS.180.301 OR AS.180.401
Area: Social and Behavioral Sciences

AS.180.352. Public Economics. 3 Credits.
This course explores issues related to expenditure and tax policies of governments, as well as views regarding the purpose of government and criteria for evaluating government actions. The course also includes a discussion of how group or collective choices are made within society, how environmental policies affect the level of pollution, and the importance of public debt.
Prerequisite(s): AS.180.301 OR AS.180.401
Area: Social and Behavioral Sciences

AS.180.354. Econometrics of Unobservables. 3 Credits.
Empirical data may not contain all the variables suggested by economic theories. This course introduces methodologies to identify and estimate economic models containing unobservables. Recommended Course Background: AS.180.301 and AS.180.334.
Area: Social and Behavioral Sciences

AS.180.355. Economics of Poverty/Inequality. 3 Credits.
This course focuses on the economics of poverty and inequality. It covers the measurement of poverty and inequality, facts and trends over time, the causes of poverty and inequality with a focus on those related to earnings and the labor market, and public policy toward poverty and inequality, covering both taxation and government expenditure and programs. By the nature of the material, the course is fairly statistical and quantitative. Students should have an intermediate understanding of microeconomic concepts. Basic knowledge of regression analysis is also helpful.
Prerequisite(s): AS.180.301
Area: Social and Behavioral Sciences

AS.180.357. Numerical Simulations For Merger and Competition Policy. 3 Credits.
This course discusses several empirical and numerical methods used in economics and then applies them to the analysis of recent antitrust issues. Specifically, we learn estimation of demand and supply, and computation of equilibrium of oligopolistic models. Then, we apply these methods to simulating mergers, which were recently proposed or already took place in the US and Europe. We evaluate the welfare impact of these mergers. To perform these analyses, we use STATA and MATLAB, but prior knowledge of these software is not required. If time allows, we will also cover other topics in antitrust, such as detecting collusion/cartels.
Prerequisite(s): AS.180.102
Area: Social and Behavioral Sciences

AS.180.361. Rich Countries, Poor Countries. 3 Credits.
Why are some countries rich while some other countries poor? Why does a country's income per person generally grow over time? We try to analyze these questions using the theoretical and empirical growth literature. We will study seminal growth models, and also try to explain cross-country income differences in terms of factors like geography, institutions and global integration. Knowledge of regression analysis (including instrumental variables estimation) is required.
Prerequisite(s): AS.180.302 AND (AS.180.334 OR AS.180.434)
Area: Social and Behavioral Sciences

AS.180.363. Sex, Drugs and Dynamic Optimization: The Economics of Risky Behavior. 3 Credits.
We apply the tools of economic analysis to understand behaviors that are enjoyable today, but may have negative consequences in the future.
Prerequisite(s): AS.180.301 OR AS.180.401 AND AS.180.302 AND (AS.180.334 OR AS.180.334)
Area: Social and Behavioral Sciences

AS.180.365. Topics in Macroeconomics. 3 Credits.
This course builds on AS.180.302 (Macroeconomic Theory) to consider the leading macroeconomic controversies of today (such as the appropriate monetary and fiscal policies of the Federal Reserve and U.S. Government). The classes will include frequent student presentations.
Prerequisite(s): AS.180.302
Area: Social and Behavioral Sciences

AS.180.367. Investment-Portfolio Management. 3 Credits.
Prerequisite(s): (AS.180.301 OR AS.180.401) AND (EN.550.111 OR EN.550.112 OR EN.550.310 OR EN.550.311 OR EN.550.420 OR EN.550.430)
Area: Social and Behavioral Sciences
AS.180.368. Managerial Economics and Business Strategy. 3 Credits.
Seminar on quantitative concepts, decision-making, and strategy in business organizations. Overall context is ‘value’ – how it is measured and maximized long term. Microeconomic theory of the firm, competitive analysis, corporate finance.
Prerequisite(s): (AS.180.301 OR AS.180.401) AND (EN.550.111 OR AS.180.367 OR AS.180.263) or permission of the instructor.
Area: Social and Behavioral Sciences

AS.180.371. Industrial Organization. 3 Credits.
Investigation of firm behavior in markets characterized by imperfect competition. Imperfect competition lies in between monopoly and perfect competition and characterizes most major industries in modern capitalist economies. Central issues to be covered in the course include what determines the intensity of competition? What determines the extent of entry and exit? How is it that some firms consistently dominate their industries?
Prerequisite(s): AS.180.301 OR AS.180.401
Area: Social and Behavioral Sciences

AS.180.389. Social Policy Implications of Behavioral Economics. 3 Credits.
Economists increasingly incorporate insights from psychology into models of rational decision-making. Known as ‘behavioral economics’, this line of research considers how, for example, emotions, rules-of-thumb, biased beliefs and time-inconsistent preferences influence how we make choices. Behavioral economics increasingly pervades policy discussions on topics as diverse as: obesity, the role of media, subprime mortgages and voting patterns. Behavioral models are certainly novel, but do they help us to design superior social policies? With the goal of preparing students to address this question, this course (1) provides a thorough overview of the main contributions of behavioral economics, highlighting departures from more traditional economic models and (2) emphasizes how behavioral economic models might (or might not) improve how we think about social policy.
Prerequisite(s): AS.180.301 OR AS.180.401; AS.180.334 OR AS.180.434 can be taken concurrently.
Area: Social and Behavioral Sciences

AS.180.390. Health Economics & Developing Countries. 3 Credits.
Benefits of good health and its costs. Health demand and supply in poor countries. Welfare economics of Public Health. This is a writing seminar. There are some lectures on how to write a paper and on the substance of the economics of international health but the focus and only assignment is a 40-page paper by each student under the supervision of the instructor.
Prerequisite(s): AS.180.301 or AS.180.401; Students may not take AS.180.390 if they took AS.180.391.
Area: Social and Behavioral Sciences
Writing Intensive

AS.180.391. Economics of China. 3 Credits.
Discussion of the economic experience of Post-War China, primarily emphasizing topics rather than historical narrative: agriculture, industry including corporate governance and public enterprises, international trade, population, migration, education, health, public finances among other topics. This course is writing intensive and the only assignment for the course is a 40 page paper on some aspect of the Chinese economy to be done under the close supervision of the instructor. The course is not primarily a lecture course, although there will be some lectures on how to do a paper and on the substance of the Chinese economic experience.
Prerequisite(s): AS.180.301 OR AS.180.401; Students may not take AS.180.390 if they took AS.180.391.
Writing Intensive

AS.180.401. Advanced Microeconomic Theory. 3 Credits.
This course covers roughly the same material as Microeconomic Theory 180.301 but in a more formal and mathematically rigorous way. You can use either 180.301 or 180.401 to satisfy the requirement for the Economics major. 180.301 and 180.401 are offered during the same time slot, so the logistics of switching from 180.301 to 180.401 should be seamless, should you decide to make the switch. This course is suitable for those students who prefer a more formal treatment of economic theory and who are planning to take some of the more technically demanding electives in economics at a later stage. NOTE: you may not take both 180.301 and 180.401.
Prerequisite(s): You may not take both AS.180.401 and AS.180.102 and any two semesters of calculus (or equivalent)
Area: Social and Behavioral Sciences

AS.180.434. Advanced Econometrics. 3 Credits.
This is a faster-paced and more intensive version of Econometrics 180.334. You can use either 180.334 or 180.434 to satisfy the requirement for the economics major. This course is suitable for those students who prefer a more technical treatment of econometric methodologies. NOTE: Students may not take both 180.334 and 180.434.
Prerequisite(s): Students may only receive credit for either AS.180.334 or AS.180.434; AS.180.301 or AS.180.401, one semester of linear algebra, one semester of calculus, AS.280.345 or EN.580.305 or EN.550.211 or EN.550.111 or EN.550.310 or EN.550.311 or EN.550.420 or EN.560.435 OR EN.560.348.
Area: Quantitative and Mathematical Sciences, Social and Behavioral Sciences

AS.180.501. Independent Study. 0 - 3 Credits.
Prerequisite(s): You must request Independent Academic Work using the Independent Academic Work form found in Student Self-Service: Registration &gt; Online Forms.

AS.180.502. Independent Study. 0 - 3 Credits.
Prerequisite(s): You must request Independent Academic Work using the Independent Academic Work form found in Student Self-Service: Registration &gt; Online Forms.

AS.180.521. Research in Economics. 2 Credits.
The assignment in this course is to complete the initial stages of research for the Senior Honors Thesis in Economics. Students will work independently under the supervision of a research/thesis advisor. The contact (in spring of Junior year) should be the course instructor listed for this course. He/she will coordinate registration and grade-reporting, and will also be available to discuss research ideas and to help put students in touch with possible thesis advisors. Open to Senior and Junior Economics majors. Note: This course can not be counted as one of the five elective economics courses required for the Economics major.
Prerequisite(s): You must request Independent Academic Work using the Independent Academic Work form found in Student Self-Service: Registration &gt; Online Forms.
AS.180.522. Senior Thesis. 3 Credits.
Students enrolled in this course will complete the Senior Honors Thesis under the supervision of a thesis advisor (who will have been chosen by the student prior to registration for AS.180.521). The formal course instructor will be in charge of overseeing registration and submitting grades. He/she will also be available for discussions of progress or problems on the thesis. Please note that your thesis advisor can be any faculty member in the Department of Economics, and need not be the same person as the course instructor. (This course cannot be counted as one of the 5 elective economics courses required for the Economics Major.)
Prerequisite(s): You must request Independent Academic Work using the Independent Academic Work form found in Student Self-Service: Registration &gt; Online Forms; AS.180.521 Writing Intensive

AS.180.595. Economic Internship. 1 Credit.
Prerequisite(s): You must request Independent Academic Work using the Independent Academic Work form found in Student Self-Service: Registration &gt; Online Forms.

AS.180.597. Research. 3 Credits.
Prerequisite(s): You must request Independent Academic Work using the Independent Academic Work form found in Student Self-Service: Registration &gt; Online Forms.

AS.180.599. Independent Study. 3 Credits.
Prerequisite(s): You must request Independent Academic Work using the Independent Academic Work form found in Student Self-Service: Registration &gt; Online Forms.

The mathematical theory of general static equilibrium. The course will emphasize the formal mathematical expression of economic ideas and the ability to give a loose economic intuition a coherent logical meaning. Different mathematical structures in general equilibrium theory will be isolated and discussed. The text will be Debreu’s book ‘Theory of Value’. Recommended Course Background: AS.110.106, AS.180.301, and AS.180.302 or permission of the instructor. Area: Social and Behavioral Sciences

The course will cover decision theories relevant to economics and their related analytical tools. We aim to discuss the following topics: standard theories of firm and consumer behavior; decision making under risk; revealed preference analysis; monotone comparative statics; bounded rationality.

AS.180.603. Macroeconomic Theory I.
A comprehensive treatment of macroeconomic theory, including static analysis of aggregate output employment, the rate of interest, and the price level; aggregate theory of investment, consumption, demand and supply of money; empirical work on aggregative relationships.

AS.180.604. Macroeconomic Theory II.
First term: a comprehensive treatment of macroeconomic theory, including static analysis of aggregate output employment, the rate of interest, and the price level; aggregate theory of investment, consumption, demand and supply of money; empirical work on aggregative relationships. Second term: the macrodynamic theory of growth, cycles, unemployment and inflation, and selected subjects.

AS.180.605. Advanced Macroeconomics I.
Topics of recent research in macro-economics. Content will vary from year to year. Likely topics include implicit contract theory, search theory and unemployment, disequilibrium macroeconomic models, monetary policy and the control of inflation, contract-based rational expectations models, imperfect competition in macrodynamic models, business cycle models, empirical tests of rational expectations models, theories of investment behavior, and debt neutrality. Open to 2nd year Grad Students and up.

AS.180.606. Advanced Macroeconomics II.
Topics of recent research in macroeconomics. Prof. Ball’s course covers nominal rigidities, dynamic-consistency theories of inflation, inflation inertia and the costs of disinflation, monetary policy, costs and benefits of price stability, benefits of output stabilization, alternative policy rules, measuring inflation, unemployment, efficiency-wage theories, the behavior of the NAIRU, macro in middle-income countries, high inflation and stabilization, currency crises. Prof. Carroll’s course analyzes implications of the buffer-stock and habit formation theories of consumption for comovement of aggregate variables and asset pricing. The models are applied to study the phenomena of declining U.S. saving rate, the dynamic relationship between saving rates and growth, and the equity premium puzzle.
Prerequisite(s): AS.180.603

AS.180.607. Macroeconometrics I.
The course is an attempt to provide a framework for discussing the techniques that are used in macroeconometric analysis. Generally the bias that it has is one of looking at these from the perspective of someone analyzing macroeconomic data for policy analysis. Consequently, many of the applications considered are drawn from the type of research conducted in central banks and finance ministries. Its emphasis is therefore upon the issues raised by the analysis of time series of macro-economic data. Today there is an emerging literature that looks at micro-economic data as well as conducting cross-country studies. We will tend to ignore that material as the methods used in such research are essentially those of micro-econometrics, although sometimes with adjustments made to reflect the nature of macro-economic time series.
Prerequisite(s): AS.180.633

AS.180.608. Macroeconometrics II.
This course will cover a range of topics in time series econometrics and empirical macroeconomics and finance that arise in current research and policy analysis. Key topics include GMM estimation, filtering, forecasting, structural VARs, and modeling stock and bond returns. It assumes a knowledge of the basics of time series econometrics. Both theoretical and empirical work will be included. Bayesian simulation methods that are very important in current research methods will be emphasized. This course should be taken by people with an interest in either empirical macro or empirical finance and may be helpful in searching for a dissertation topic.

AS.180.609. Core Mathematics for Economics.
This course will develop the necessary mathematical language and tools that are to be regarded as a pre-requisite for graduate study in economics at Johns Hopkins. Specifically, the course will focus on set theory, linear algebra and real analysis.
Area: Social and Behavioral Sciences
AS.180.611. Economics of Uncertainty.
This course offers a review of subjective expected utility theory of decision making under uncertainty and choice based subjective probabilities. It also explores the motivation for the recent developments of non-expected utility theories under risk and under uncertainty. It examines the role of completeness and awareness in these theories as well as the theories of menu choice and random choice behavior.
Area: Social and Behavioral Sciences

This course traces the extent to which modern economic theory, particularly as it pertains to pure competition in market and non-market games under the rationality postulate, is grounded in the language of probability and measure theory. Special attention will be paid to the formal expression of ideas such as economic and numerical negligibility, on the one hand, and diffuseness and conditional independence of information, on the other. Towards this end, the course will develop rigorous formulations of basic ideas of (conceptual rather than computational) probability and apply them: first, to develop the fundamental theorems of welfare economics, including the core theorems; and second, to large anonymous and non-anonymous games as well as to finite-agent games with private information. The course will be self-contained from the technical point of view but will presuppose a level of mathematical maturity that ought typically to be achieved by taking courses such as AS.180.615 and AS.180.601.

This course concerns dynamic optimization in both continuous and discrete time. More specifically, it develops Pontryagin's maximum principle and the Euler-Lagrange conditions in the calculus of variations, on the one hand, and the basic tools of deterministic dynamic programming, on the other. The course will be self-contained from the technical point of view but will presuppose a level of mathematical maturity that ought typically to be achieved by taking a course such as AS.180.600.

AS.180.622. Game Theory.
The topics covered include solutions concepts such as dominance, rationalizability, Nash equilibrium, correlated equilibrium, subgame perfect equilibrium and Perfect Bayesian equilibrium. We will discuss both static and dynamic games and games of complete and incomplete information.
Prerequisite(s): AS.180.623
Corequisite(s): AS.180.623
Area: Social and Behavioral Sciences

AS.180.623. Economics of Information.
The course introduces the economic issues associated asymmetric information and analyses the institutions and mechanisms designed to mitigate the resulting inefficiencies. Topics include: Adverse selection; moral hazard; incentive contracts; and mechanism design.
Prerequisite(s): AS.180.600 AND AS.180.601
Corequisite(s): AS.180.622
Area: Social and Behavioral Sciences
Writing Intensive

AS.180.626. Computational Methods.
This class will introduce students to the computational tools that are used to get things done in scientific research. Such tools include, but are not limited to, unix bash shell scripting, LaTeX/Beamer, virtual machines, git and github, tools for parallel computation, cloud services, and others. Brief treatments of special-purpose tools (like Mathematica for symbolic math) will conclude this part of the class. After this introduction, the course will involve an intensive introduction to the use of the Python language for scientific computation purposes, including a discussion of why Python dominates other choices like Matlab and Julia. The final third of the course will apply the tools in a practical application to a specific problem identified jointly between the instructor and the student. There is no required text; readings will be assigned in class. (The characteristic that distinguishes this class from alternatives is that this class will not teach specific algorithms nor frontier computational techniques; rather, it aims to expose students to a broad set of tools that they will use regularly thereafter.)
Area: Social and Behavioral Sciences

AS.180.632. Topics in Applied Microeconometrics.
This course teaches methods for using micro-data to recover structural parameters of microeconomic models. We cover static models, but focus largely on single-agent dynamic programming, including "full solution" methods along with innovations that permit circumvention of daunting computational tasks. Additional topics will be partially based on students' interests, but will likely include: general equilibrium models, static and dynamic games, matching models, unobserved heterogeneity, structural methods with experimental data and biased expectations. The goal is to teach students to use structural methods in their own research, and so we will delve into the nuts and bolts of structural work, examining how researchers actually get from raw data to results. This includes: how the sub-sample for analysis is chosen, how the model is specified, how the programming problem is solved, which moments are generated, how these are matched to the analogous moments in the data and, importantly, how identification is established.

Mathematical models of economic behavior and the use of statistical methods for testing economic theories and estimating economic parameters. Subject matter will vary from year to year; statistical methods, such as linear regression, multivariate analysis, and identification, estimation and testing in simultaneous equation models, will be stressed.
Prerequisite(s): AS.180.636

AS.180.634. Panel Data Models & Applications.
This course is a reading course for the panel data models in the economics department. We will focus on econometric theories that are commonly used in panel data analysis, although many of these techniques can be applied to other areas as well. In addition, we will discuss applications of these theories. The course material will start form chapter 10 & 11 in Wooldridge's book which covers linear panel data models. And then we discuss the discrete choice models from chapter 7 of Hsiao's book. After these, we will try to read papers related to panel data models.

AS.180.636. Statistical Inference.
Theory and applications of statistical inference. Topics include probability and sampling, distribution theory, estimation, hypothesis testing, and simple regression analysis. Statistical applications will be drawn from economics. Limited to graduate students in Economics except by permission of the chair. Recommended Course Background: AS.110.201, AS.110.302
**AS.180.637. Microeconometrics I.**
This is an advanced graduate course on major econometric techniques and models that are used in empirical microeconomics. The first half of the course introduces econometric theories of nonlinear extremal estimation, nonparametric estimation, and semiparametric estimation. The second half of the course illustrates applications of these theories to limited dependent variable models, selection models, and endogenous treatment models with unobserved heterogeneity.

**Prerequisite(s):** AS.180.601 AND AS.180.622 AND AS.180.633 AND AS.180.636

**AS.180.638. Microeconometrics II.**
This course is the second in the microeconometrics sequence in the Economics Department. It will introduce a selection of models and techniques that are useful when a researcher wants to estimate a structural model, i.e. a model derived from economic theory. Structural models that try to incorporate restrictions derived from economic theory are used in empirical IQ, but also in quantitative marketing research, labor economics and other fields that consider individual decision making. No attempt will be made to be comprehensive. Instead we will focus on a few areas that have been well-researched in recent years: dynamic discrete choice, microeconomic models with latent variables, program evaluation, the empirical analysis of auctions and nonseparable models. Some topics will be included only if time permits. The models and methods developed for these areas are relevant for other cases. The emphasis is on the interaction between economic theory and econometrics. Basic issues are specification and (nonparametric) identification, computational problems and the use of simulation, semiparametric estimation to avoid functional form and distributional assumptions that cannot be derived from economic theory.

**Prerequisite(s):** AS.180.601 AND AS.180.622

**Area: Social and Behavioral Sciences**

**AS.180.640. Topics in Economic Theory.**
In this course we will discuss a variety of topics in Economic Theory that are either not covered or only partially covered in the regular courses. Topics may include Individual and Social Choice Theory, Auctions Theory, Medical Decision Making. For each subject there will be introductory lectures followed by readings and students' presentations of recent contributions.

**Prerequisite(s):** AS.180.601 AND AS.180.622

**Area: Social and Behavioral Sciences**

**AS.180.641. International Trade.**
This is a graduate course in international trade. It will develop basic analytical tools and frameworks used in the general equilibrium analysis of international trade. Recent research topics will be discussed in the second half of the course.

**Prerequisite(s):** AS.180.601 AND AS.180.603

**AS.180.642. International Monetary Economics.**
A link between the balance of payments and asset accumulation/decummulation, microeconomics of international finance and open-economy macroeconomics. The section on open-economy macroeconomics covers approaches to balance-of-payments adjustments, theories of exchange rate determination and monetary, fiscal, and exchange-market policies under fixed and flexible rate regimes.

**AS.180.643. Topics of Game Theory.**
This course covers topics such as repeated games, dynamic games, bargaining and strategic communication.

**Prerequisite(s):** AS.180.622

**Area: Social and Behavioral Sciences**

**AS.180.645. Topics in Economic Theory.**
The course will cover matching markets, which typically deal with assignment problems with and without the use of transfers. Examples of these include school choice, course allocation, and organ exchange. We will cover the theoretical underpinnings, field applications, and empirical evaluations of these markets.

**Area: Social and Behavioral Sciences**

**AS.180.646. Revealed Preference and Comparative Statics.**
The overall theme of this course is the observable implications of optimizing choice. We will cover the theory of monotone comparative statics and supermodular games. We also discuss results in the revealed preference literature, such as Afriat's Theorem, that deal with the consistency of data with different canonical models. The course is useful to students doing research in pure or applied theory, where comparative statics tools/insights are often needed for model building. It could also be interesting to those with an empirical focus who would like to know more about revealed preference approaches to testing models and drawing inferences from them.

**Area: Social and Behavioral Sciences**

**AS.180.647. Topics in Economic Theory and Finance.**
This course studies the theory of asset trading in which agents hold different information and/or beliefs. Foundational papers as well as recent ones will be covered, with applications both within and outside of Finance. Topics include: information aggregation via prices; rational expectations equilibrium; market micro-structure; large auctions; herding/information cascades/price bubbles; dynamic models and learning.

**Area: Social and Behavioral Sciences**

**AS.180.648. Topics in Applied Microeconomics.**
This course will cover popular research designs in applied microeconomics, from reduced-form approach to structural estimation. The first half of this course will be devoted to studying methodologies in reduced-form approach and the second half will be about structural estimation. Students must be familiar with at least one programming language of own choice (python, matlab, R, Julia, Fortran, C/C++) and statistical package (STATA, R) to solve problem sets in this course. The course will introduce various papers related to unobserved heterogeneity in applied microeconomics literature. Basic programming skills are needed for dynamic programming in this course.

**Prerequisite(s):** AS.180.600 AND AS.180.601

**Area: Social and Behavioral Sciences**

**AS.180.649. Structural Approach in Family and Cultural Economics.**
This course will introduce structural approach in applied microeconomics, with emphasis on models including endogenous unobservable heterogeneity. The first half of this course will cover popular estimators, such as simulated method of moments, indirect inference, conditional choice probability estimator. The course will cover both single agent problem and multi-agents problem, potentially including endogenous unobservable heterogeneity. The second half of this course will discuss multiple decision maker problem, so-called collective model, and family formation and dissolution model, and cultural economics.

**Area: Humanities**

**AS.180.651. Labor Economics I.**
Theories of the allocation of time and supply of labor, human capital, demand for labor, market equilibrium, and income distribution. As time allows, other topics, such as unemployment, unions, and compensating differences are discussed. Corequisite: AS.180.601
AS.180.662. Asset Pricing.
This course is an introduction and guide to the most important issues in asset pricing. It begins with classic concepts such as the Capital Asset Pricing Model and the Arbitrage Pricing Theory and continues through continuous-time dynamic no-arbitrage models. It covers both basic theory and classic empirical research. Recommended Course Background: AS.180.604, AS.180.633, AS.180.636 or instructor’s permission.

AS.180.672. Industrial Organization.
First term: This course covers methods in applied empirical Industrial Organization. The focus will be on the use of econometric analysis and data both for descriptive and measurement purposes, and to test the predictions of economic theories. The course will cover demand estimation, cost and production function estimation, and estimation of auction models. Second term: The emphasis in this course is on empirical analysis of firm behavior. The first part of the course focuses on models of the internal organization of the firm. The second part considers empirical analysis of firm behavior in markets, with an emphasis on the “new industrial economics.”
Prerequisite(s): AS.180.601

AS.180.673. Advanced Economics of Labor.
This course is for graduate students at the 3rd year and above who wish to participate in a seminar in depth readings and discussion topics in labor economics and in econometric methods typically used in labor economics and in many other applied microeconomics fields. Students will have to participate in discussions of materials in each class. The topics covered in each semester are partly a function of student interest and their dissertation topics.
Area: Social and Behavioral Sciences

AS.180.690. Advanced Econometrics.
Advanced econometric techniques are often essential to innovative empirical work, but finding and implementing the right methods for a particular problem poses formidable challenges. This course/seminar aims to address these challenges by combining lectures and discussions of foundational econometric methods in areas of student interest (whether those interests be specific for thesis work or more speculative) with examples of implementation, including software development, in more of a ‘workshop’ environment. The emphasis will be on drawing on the resources of econometric theory to address specific empirical issues while at the same time developing implementation skills.

This course is for students working on the dissertation for the Ph.D. in Economics. It is graded pass-fail
Area: Social and Behavioral Sciences

This is a weekly seminar series that brings in speakers from other universities to present their research in the field of applied microeconomics. Graduate Students only.
Writing Intensive

This is a seminar series devoted to the presentation of research in microeconomic theory, typically by speakers from outside the department. Graduate students only.

This course features lectures by economists from other universities. They present research findings at the frontier of the field. Graduate students only.

The purpose of this seminar is to train students to do research in economics. This course is for second year graduate students in the PhD program in Economics. For Graduate Students Only.

AS.180.698. Research/Teaching Practicums.
The purpose of the Ph.D. program in economics is to train students to teach and to do research in economics. This course is for graduate students in the Ph.D. program in economics to obtain graduate credit for work off campus that provides training and the development of skills in teaching and/or research. Before the practicum is begun, the graduate student must identify a sponsoring faculty member or seek permission from the student’s faculty adviser. The faculty member or adviser must sign a form that certifies that graduate credit will be granted, verifies the nature of the work to be performed by the student, and explains how the practicum helps to fulfill a degree requirement. Once completed, the sponsoring faculty member or adviser submits a grade of pass or fail for the student. The course may be used for curricular practical training. Economic majors / Graduate students only.


Cross Listed Courses

Canadian Studies Program

SA.840.712. Dynamics of Commodity Economies. 4 Credits.
Examines the pluses and minuses of small open economies that are commodity exporters, with the Canadian case study as the pivotal focus. Uses developing and other developed commodity exporters to contrast and compare. (This is a cross-listed course offered by the Canadian Studies Program that also can fulfill a requirement for the Latin American Studies Program.)

SA.840.713. Economics Of Immigration. 4 Credits.
Examines the economic causes and consequences of international migration. The central focus is an economic analysis of the general patterns of population flows, their determinants and their impact. Analyzes these primarily within the context of the North American experience, although also considers other case studies. Includes consideration of the Canadian experience, in that Canada is both a significant receiving and sending country. Prerequisite: Microeconomics or Accelerated Microeconomics. (This is a cross-listed course offered by the Canadian Studies Program that also can fulfill a requirement for the International Economics Program and the Latin American Studies Program.)

SA.840.715. Economics Of Immigration. 4 Credits.
Examines the economic causes and consequences of international migration. The central focus is an economic analysis of the general patterns of population flows, their determinants and their impact. Analyzes these primarily within the context of the North American experience, although also considers other case studies. Includes consideration of the Canadian experience, in that Canada is both a significant receiving and sending country. Prerequisite: Microeconomics or Accelerated Microeconomics. (This is a cross-listed course offered by the Canadian Studies Program that also can fulfill a requirement for the International Economics Program and the Latin American Studies Program.)

SA.840.714[C].

Energy, Resources Environment
Energy holds a unique position at the nexus of multiple disciplines, including microeconomics, macroeconomics, finance, politics, security, environment, and science and technology. It forms a constant source of anxiety and opportunity to the private sector and policymakers, yet its breadth, complexity, and multi-dimensional nature challenges all participants in the energy space. This course provides a quantitatively rigorous introduction to the principles of energy economics, including the fundamentals of demand and supply, storage, transportation, transmission, processing. The course also covers the associated financial markets for futures and other derivatives, the linkages between energy and the broader global macroeconomy, the political, environmental, and security externalities and their policy implications, the valuation of energy assets, and finally a survey of some unique characteristics and outlook for various sources of energy, including hydrocarbon, nuclear, biofuel, and renewable sources. Click here to see evaluations, syllabi, and faculty bios.

Prerequisite(s): SA.680.697[C] AND SA.680.600[C].

SA.680.851. Environmental and Natural Resource Economics. 4 Credits.
This course will give a broad overview of how economists think about environmental issues and translate it into policy applications. The class will be divided in three parts. Part I will cover ways in which markets fail to efficiently allocate resources in the presence of environmental externalities like pollution, along with policies to correct these failures. Part II will focus on the inefficient allocation of natural resources when property rights are poorly designed. Part III will provide an overview of the role of private actors in environmental sustainability. The objective of this course is to stimulate critical thinking about environmental challenges and solutions. Click here to see a video introduction for the course.

Prerequisite(s): SA.300.699[C] OR SA.300.700[C] OR SA.999.699[C] OR SA.999.700[C]

Environmental Health and Engineering
EN.570.428. Problems in Applied Economics. 3 Credits.
This course focuses on a monetary approach to national income determination and the balance of payments. Money and banking, as well as commodity and financial markets, are dealt with under both central banking, as well as alternative monetary regimes. Particular emphasis is placed on currency board systems. Students learn how to properly conduct substantive economic research, utilizing primary data sources, statistical techniques and lessons from economic history. Findings are presented in the form of either memoranda or working papers of publishable quality. Exceptional work may be suitable for publication through the Johns Hopkins Institute for Applied Economics, Global Health, and the Study of Business Enterprise. Advanced excel programming skills are required and students are expected to be pre-screened for research at the Library of Congress in Washington, D.C.. Bloomberg certification is a pre-requisite.

Prerequisite(s): EN.660.203 AND AS.180.101 AND AS.180.102
Area: Social and Behavioral Sciences
Writing Intensive
Interdepartmental

AS.360.247. Introduction to Social Policy: Baltimore and Beyond. 3 Credits.
This course will introduce students to basic concepts in economics, political science and sociology relevant to the study of social problems and the programs designed to remedy them. It will address the many inequalities in access to education and health care, unequal treatment in the criminal justice system, disparities in income and wealth, and differential access to political power. The focus will be on designing effective policies at the national and local level to address these pressing issues. This course is open to all students, but will be required for the new Social Policy Minor. The course is also recommended for students who are interested in law school, medical school, programs in public health, and graduate school in related social science fields. This course does not count as one of the required courses for the Economics major or minor, but it is required for the Social Policy Minor. Cross list with Sociology, Economics and Political Science. Freshman, Sophomore and Juniors only.
Area: Social and Behavioral Sciences
Writing Intensive

AS.360.528. Problems in Applied Economics. 2 Credits.
This course focuses on a monetary approach to national income determination and the balance of payments. Money and banking, as well as commodity and financial markets, are dealt with under both central banking, as well as alternative monetary regimes. Particular emphasis is placed on currency board systems. Students learn how to properly conduct substantive economic research, utilizing primary data sources, statistical techniques and lessons from economic history. Findings are presented in the form of either memoranda or working papers of publishable quality. Exceptional work may be suitable for publication through the Johns Hopkins Institute for Applied Economics, Global Health, and the Study of Business Enterprise. Advanced excel programming skills are required and students are expected to be pre-screened for research at the Library of Congress in Washington, D.C.. Bloomberg certification is a requisite.
Prerequisite(s): You must request Independent Academic Work using the Independent Academic Work form found in Student Self-Service: Registration &gt; Online Forms.

Writing Intensive

International Development

SA.400.774. Financial Crises, Emerging Markets and Policy Dilemmas. 4 Credits.
This course addresses policy issues in emerging markets with a particular focus on financial crises and their implications. Over the last several years, we have witnessed a number of episodes of financial distress often leading to macroeconomic chaos, particularly in emerging markets. Financial fragility and market distress can come in many forms: Currency crises, banking crises, debt crises, or a mix of two or more of these crises. The purpose of this course is to provide students with frameworks and tools for analyzing the causes and consequences of financial fragilities and crises, as well as the policy responses they entail. To this end, the course will mix economic theory, country experiences, and actual policy responses to provide an in-depth understanding of the boom-bust cycles characteristic of emerging market economies. The course will also address the 2008 financial crisis, drawing on aspects that make this particular episode stand out from previous instances of turmoil. Emerging market policy responses to the 2008 crisis, as well as the effects on these countries of unconventional policy stimulus adopted by developed economies will also be discussed.<a href='http://bit.ly/1beb5p6' target='_blank'>Click here to see evaluations, syllabi, and faculty bios</a>

SA.400.794. Public-Private Partnerships: Creating Public Value in Economic and Social Infrastructure. 2 Credits.
The course has been designed to help students understand what public value can be created and what complex public policy problems can be addressed by employing the techniques and structures used in public-private partnerships (PPPs). Public-Private Partnerships are collaborative structures supported by public, private and other partners who agree to share risks, resources and decisions in building and implementing certain projects. PPPs address issues with financing, operational capacity, and human capital requirements. The parties to a solution may share motivations to create public value by addressing a particular problem but may not agree on how it should be addressed, by whom, at what risk, and for what incentives. The course will discuss how economic and social PPPs can improve a country’s competitiveness. While economic PPPs are created to address strategic economic development goals, social PPPs focus more on assets that lack adequate revenue sources and require subsidies. The skills needed to effectively develop economic and social PPPs include negotiation, political management, innovation, and financial structuring. Case studies and readings will be used to illustrate the wide spectrum of situations and challenges associated with managing PPPs and the types of issues that will benefit from PPPs in international development. This is a 2 credit class to be paired with Development Finance.<a href='http://bit.ly/1beb5p6' target='_blank'>Click here to see evaluations, syllabi, and faculty bios</a>
Prerequisite(s): SA.380.760[C]; Students may not register for this class if they have already received credit for SA.400.756[C]
SA.400.819. Financial Sector Developments and Reform in Emerging Markets. 4 Credits.
Explores developments and policy issues in the financial structures of selected emerging-market economies, including the functioning of the bond market, the equity market and the banking system; the role of central banks and official oversight; and issues of information, corporate governance, privatization, risk management and legal foundations. Prerequisites: Microeconomics or Accelerated Microeconomics and Macroeconomics or Accelerated Macroeconomics. (This is a cross-listed course offered by the International Development Program that also can fulfill a requirement for the Latin American Studies and International Economics programs.) Click here to see evaluations, syllabi, and faculty bios.
Prerequisite(s): SA.300.701[C] OR SA.300.706[C] OR SA.999.701[C]; SA.300.699[C] OR SA.300.700[C] OR SA.300.704[C] OR SA.999.699[C] OR SA.999.700[C]

International Economics

SA.300.700. Microeconomics. 4 Credits.
Theory of decision-making under conditions of scarcity and uncertainty. Analyzes choice and demand, production, cost, the firm and market structure, market failure and uncertainty. Emphasizes economics efficiency and application of theory to decisions and policy problems. Introduces game theory. Taught at the intermediate level and includes a mathematics tutorial for basic calculus skills. The course meets more frequently than other courses. Together with Macroeconomics constitutes the foundation for all other economics courses at SAIS. MA students may not audit. Click here to see evaluations, syllabi, and faculty bios.

SA.300.701. Macroeconomics. 4 Credits.
Develops analytic tools used to understand how the economy functions in aggregate. Primary purpose of the tools is to explain national levels of output, employment, prices and the rate of interest, as well as changes in these variables over time. Assesses the role of government policy in determining these outcomes. Devotes attention to both short-run economics fluctuations and long-run economic phenomena, including growth. Taught at an intermediate level. Together with Microeconomics constitutes the foundation for all other economics courses at SAIS. Prerequisite: Microeconomics or Accelerated Microeconomics. May be taken concurrently with Microeconomics or Accelerated Microeconomics. MA students may not audit. Click here to see evaluations, syllabi, and faculty bios.
Prerequisite(s): SA.300.699[C] OR SA.300.700[C] OR SA.300.704[C] OR SA.999.699[C] OR SA.999.700[C]

SA.300.707. International Trade Theory. 4 Credits.
Considers the theory and practice of international trade and investment. First part of the course examines the cause of trade, the sources of the gains from trade and the domestic and international distribution of those gains. Second part examines the instruments and consequences of trade policy measures, especially tariffs and quantitative restrictions. Addresses preferential trade agreements and the practice of trade policy. Prerequisite: Microeconomics or Accelerated Microeconomics. MA students may not audit. Click here to see evaluations, syllabi, and faculty bios.
Prerequisite(s): SA.300.699[C] OR SA.300.700[C] OR SA.300.704[C] OR SA.999.699[C] OR SA.999.700[C]

SA.300.708. International Monetary Theory. 4 Credits.
Covers the basic theory underlying the international monetary system. Topics include international financial markets and the macroeconomics of open economies; balance of payments and the trade balance; exchange rates and the foreign exchange market; expectations, interests rates and capital flows; central banking and monetary policy in open economies; exchange rate regimes; and macroeconomic policy in open economies. Prerequisite: Macroeconomics or Accelerated Macroeconomics. MA students may not audit. Click here to see evaluations, syllabi, and faculty bios.
Prerequisite(s): SA.300.701[C] OR SA.300.706[C] OR SA.999.701[C]

SA.300.713. Game Theory. 4 Credits.
Traditional economic theory tends to avoid interactive influences among decision-makers. Game theory focuses on analyzing the effects of interaction among individuals and groups with competing and conflicting goals. The course covers cooperative and noncooperative game theory, explaining the nature and selection of pure and mixed strategies, the various equilibrium concepts used and the theory’s relationship to traditional optimization analysis. Draws examples from microeconomic theory, international trade and trade policy, arms control, international relations as well as other fields. The course is self-contained with respect to mathematics content. Prerequisite: Microeconomics or Accelerated Microeconomics. Click here to see evaluations, syllabi, and faculty bios.
Prerequisite(s): SA.300.699[C] OR SA.300.700[C] OR SA.999.699[C] OR SA.999.700[C] OR SA.310.700[C]

SA.300.728. Public Sector Economics. 4 Credits.

SA.300.729. European Economic Integration. 4 Credits.
Recreated to change code; moved from 380.737; MA students may not audit.

SA.300.732. European Economic Integration. 4 Credits.
Created new to have correct code (was 380.733);

SA.300.851. Accelerated International Trade Theory. 4 Credits.
Topic coverage is similar to that of the standard International Trade Theory course, but uses advanced analytical techniques and requires some calculus. Considers the theory and practice of international trade and investment. First part examines the cause of trade, the sources of the gains from trade and the domestic and international distribution of those gains. Second part examines the instruments and consequences of trade policy measures, especially tariffs and quantitative restrictions. Addresses preferential trade agreements and the practice of trade policy. Prerequisite: Microeconomics or Accelerated Microeconomics. MA students may not audit. Click here to see evaluations, syllabi, and faculty bios.
Prerequisite(s): SA.300.700[C] OR SA.300.699[C] OR SA.300.704[C] OR SA.999.700[C] OR SA.999.699[C]
albeit mostly in a comparative context.

one which often defies generalizations. Our focus will be on East Asia; this, you will probably find that we will raise more questions than we will endeavor to address these as well as other questions. In doing so, we will examine why countries grow and develop (and other don’t); (ii) the barriers to economic growth in poor countries; (iii) how these barriers can be overcome.

In addition to standard approaches to economic development, the course looks at human capital and institutions as components in the growth process and briefly assesses the impacts of development aid on economic growth. An important feature of the course is to help students apply theoretical concepts studied in class to particular developing countries. For this purpose each student will select one developing country and practice the application of conceptual approaches discussed in class. Pre-requisites: Macroeconomics, Microeconomics, statistics desirable. Class size: max. 25 students.

Covers the main patterns of economic growth and development since the mid-19th century. Highlights the most significant ideas behind economic growth, with emphasis on those that came to the fore in the second half of the 20th century, the so-called development theories. Also describes the salient characteristics of underdeveloped countries today. This is an introductory course, without prerequisites, and is appropriate for students without prior course work in development. Prerequisites: Macroeconomics or Accelerated Macroeconomics. MA students may not audit.

Prerequisite(s): SA.300.701[C] OR SA.300.706[C] OR SA.999.701[C]

The course intends to familiarize students with key economic concepts underlying the basic process of economic growth and development and to familiarize students with some of the prominent theories and models associated with this debate. The course will examine (i) why countries grow and develop (and other don’t); (ii) the barriers to economic growth in poor countries; (iii) how these barriers can be overcome.

The course looks at human capital and institutions as components in the growth process and briefly assesses the impacts of development aid on economic growth. An important feature of the course is to help students apply theoretical concepts studied in class to particular developing countries. For this purpose each student will select one developing country and practice the application of conceptual approaches discussed in class. Pre-requisites: Macroeconomics, Microeconomics, statistics desirable. Class size: max. 25 students.

Covers the main patterns of economic growth and development since the mid-19th century. Highlights the most significant ideas behind economic growth, with emphasis on those that came to the fore in the second half of the 20th century, the so-called development theories. Also describes the salient characteristics of underdeveloped countries today. This is an introductory course, without prerequisites, and is appropriate for students without prior course work in development. Prerequisites: Macroeconomics or Accelerated Macroeconomics. MA students may not audit.

Prerequisite(s): SA.300.701[C] OR SA.300.706[C] OR SA.999.701[C]

SA.320.715. Theories & Models of Econ Development. 4 Credits.

Covers the main patterns of economic growth and development since the mid-19th century. Highlights the most significant ideas behind economic growth, with emphasis on those that came to the fore in the second half of the 20th century, the so-called development theories. Also describes the salient characteristics of underdeveloped countries today. This is an introductory course, without prerequisites, and is appropriate for students without prior course work in development. Prerequisites: Macroeconomics, Microeconomics, statistics desirable. Class size: max. 25 students.

Covers the main patterns of economic growth and development since the mid-19th century. Highlights the most significant ideas behind economic growth, with emphasis on those that came to the fore in the second half of the 20th century, the so-called development theories. Also describes the salient characteristics of underdeveloped countries today. This is an introductory course, without prerequisites, and is appropriate for students without prior course work in development. Prerequisites: Macroeconomics, Microeconomics, statistics desirable. Class size: max. 25 students.

Covers the main patterns of economic growth and development since the mid-19th century. Highlights the most significant ideas behind economic growth, with emphasis on those that came to the fore in the second half of the 20th century, the so-called development theories. Also describes the salient characteristics of underdeveloped countries today. This is an introductory course, without prerequisites, and is appropriate for students without prior course work in development. Prerequisites: Macroeconomics, Microeconomics, statistics desirable. Class size: max. 25 students.

Covers the main patterns of economic growth and development since the mid-19th century. Highlights the most significant ideas behind economic growth, with emphasis on those that came to the fore in the second half of the 20th century, the so-called development theories. Also describes the salient characteristics of underdeveloped countries today. This is an introductory course, without prerequisites, and is appropriate for students without prior course work in development. Prerequisites: Macroeconomics, Microeconomics, statistics desirable. Class size: max. 25 students.
SA.320.744. Economic Development. 4 Credits.
The course provides a big picture view of the Economic Development discipline through the current debate on the future of Economic Development. It answers the central questions: 1) why are some countries so much poorer than others?, 2) what are the main barriers to the process of economic development? and 3) why do those barriers exist and persist? This course provides an overview of how the discipline of Economic Development approaches these questions and to review its recent findings. It is required for students pursuing the specialization in Economic Development. Pre-requisites: Although most of the course will be presented in a non-technical fashion, there will be some formal economic models and review academic empirical papers. Students should be comfortable with basic economic concepts and should have completed or be concurrently enrolled in an intermediate level microeconomics course and econometrics or statistics. Students that do not fulfill this requirement should discuss their background with the professor before enrolling in the course. <a href='http://bit.ly/1bebyp5s' target='_blank'>Click here to see evaluations, syllabi, and faculty bios</a>.
Prerequisite(s): SA.300.701[C] OR SA.300.706[C] OR SA.310.701[C] OR SA.999.701[C];SA.300.699[C] OR SA.300.700[C] OR SA.999.699[C] OR SA.999.700[C]

SA.340.709. Statistical Methods for Business & Economics. 4 Credits.
Covers basic statistical tools for data analysis. Emphasizes facility in problem-solving in statistical inference and two-variable regression and correlation analysis. Presents descriptive statistics, probability and probability distributions and their use in hypothesis testing. Uses computer to solve problems and to reinforce statistical concepts. <a href='http://bit.ly/1bebyp5s' target='_blank'>Click here to see evaluations, syllabi, and faculty bios</a>.
Prerequisite(s): SA.340.709[C] OR SA.999.702[C] OR SA.630.724[C]

SA.340.710. Econometrics. 4 Credits.
Provides comprehensive introduction to econometrics. Develops tools for estimating functional relationships and critically reading empirical studies that use different econometric techniques; presents assumptions of multivariate regression and discusses the most common econometric problems and the potential consequences and remedies; and discusses omitted variables, sample selection, heteroscedasticity, autocorrelation, multicollinearity and use of discrete variables. Introduces instrumental variable technique. Uses statistical software in applied exercises. Prerequisite: Statistical Methods for Business and Economics. <a href='http://bit.ly/1bebyp5s' target='_blank'>Click here to see evaluations, syllabi, and faculty bios</a>.
Prerequisite(s): SA.340.709[C] OR SA.999.702[C] OR SA.630.724[C]

SA.380.771. Financial Derivatives and Risk Management. 4 Credits.
Introduces options, futures and swaps presented in Corporate Finance. Reviews basics of valuation methods and institutional context in which derivative contracts are traded. Describes use of basic derivative instruments as “building blocks” to construct more complex positions that increase, decrease or transform exposure to specific financial risks. Focuses on how such combinations of derivatives may be used to implement overall risk-management strategy and introduces techniques to manage financial derivatives portfolios, including value-at-risk and credit mitigation. Uses case discussions and culminates in oral presentation of a group project. Prerequisite: Corporate Finance. Limited to 25 students. <a href='http://bit.ly/1bebyp5s' target='_blank'>Click here to see evaluations, syllabi, and faculty bios</a>.

Latin American Studies Program
SA.810.727. Financial Crises and Policy Dilemmas in Emerging Markets and Latin America. 4 Credits.
This course addresses policy issues in emerging markets with a particular focus on financial crises and their implications. Over the last several years, we have witnessed a number of episodes of financial distress often leading to macroeconomic chaos, particularly in emerging markets. Financial fragility and market distress can come in many forms: Currency crises, banking crises, debt crises, or a mix of two or more of these crises. The purpose of this course is to provide students with frameworks and tools for analyzing the causes and consequences of financial fragilities and crises, as well as the policy responses they entail. To this end, the course will mix economic theory, country experiences, and actual policy responses to provide an in-depth understanding of the boom-bust cycles characteristic of emerging market economies. The course will also address the 2008 financial crisis, drawing on aspects that make this particular episode stand out from previous instances of turmoil. Emerging market policy responses to the 2008 crisis, as well as the effects on these countries of unconventional policy stimulus adopted by developed economies will also be discussed. Please note that this course was previously denoted by course number SA.400.774. The course content and syllabus remain the same. <a href='http://bit.ly/1bebyp5s' target='_blank'>Click here to see evaluations, syllabi, and faculty bios</a>.
Prerequisite(s): Students may not register for this class if they have already received credit for SA.400.774[C]

South Asia Studies
SA.790.729. Economic Development and Policy in India. 4 Credits.
The main aim of this course is to familiarize students with India’s economy. We will discuss some of the principal themes in the India’s economic development, its integration in the world economy, the political economy of reforms and growth, as well as India’s institutional development. By the end of the course, students should be able think critically about Indian economic developments and related policy issues. We will begin by assessing India’s economic evolution in her post-independence years, placing particular emphasis on the market oriented reforms undertaken in recent decades. Topics in both microeconomics (domestic de-regulation, trade reform, sectoral shifts from agriculture to industry and services, education and health) and macroeconomics (deficits, debt and crises, the exchange rate, inflation and monetary policy) will be covered. In addition, we will discuss the structure of Indian economic and political institutions and their impact on economic performance. We will focus on both conceptual issues in economics and their application in the Indian setting; this course is intended for students interested in the Indian economy as well as those interested, more broadly, in the economic issues that arise in developing countries with diversified economies and a complex political economy. <a href='http://bit.ly/1bebyp5s' target='_blank'>Click here to see evaluations, syllabi, and faculty bios</a>.
Prerequisite(s): Students may not register for this class if they have already received credit for SA.790.724[C]

For current faculty and contact information go to http://econ.jhu.edu/directoryindex/faculty/