HARVARD PH.D. PROGRAM IN HEALTH POLICY
ECONOMICS CONCENTRATION
2016–2017

The economics concentration focuses on the economic behavior of individuals, providers, insurers, and international, federal, state, and local governments and actors, as their actions affect health and medical care. In addition to examining the literature on health economics, the training emphasizes microeconomic theory, econometrics, and interactions with other disciplines, including clinical medicine. The concentration prepares students for research and teaching careers as health economists.

Guide for students in the PhD in Health Policy economics concentration:

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SUMMARY OF REQUIREMENTS

(1) One year of graduate-level microeconomic theory – This requirement is fulfilled by taking Economics 2020a and 2020b (also listed at the Harvard Kennedy School and Harvard Business School).

(2) Statistics and Econometrics – Economics track students are required to take Econometrics I (Economics 2110) offered in the Fall and Introduction to Applied Econometrics (Economics 2120) offered in the Spring. If a student has significant econometric training, Econometric Methods (Economics 2140) can substitute for Economics 2120, pending approval of track chair. Please note that the completion of this sequence also fulfills the two-semester statistics distribution requirement required of all Health Policy PhD students.

(3) Field Courses – Students must take four one-semester courses from the following applied fields: public economics (Economics 2450a and 2450b), labor economics (Economics 2810a and Economics 2811 or Economics 2810b or Economics 2330), industrial organization (Economics 2610 and 2611), development economics (Economics 2325, 2326, 2390, and 2392), behavioral economics (Economics 2030), or methods (Economics 2140, if not used to substitute for Economics 2120 in the statistics and econometrics requirement). The four courses can come from any of the courses listed above. Other graduate level economics courses may be substituted for these courses with permission of the chair of the committee. Such permission, however, will not be routinely granted, and students asking to substitute should have a strong reason for wishing to substitute.

(4) Health Economics Reading Courses (Economics 2465 and 3460c) – Second-year students must take Health Economics (Economics 2465), led by Professor David Cutler, and Research in Health Economics (Economics 3460c). These courses prepare students for the qualifying exam in the economics track.

(5) Research seminar – The program requires the completion of Economics 2460, the Harvard/BU/MIT joint Health Economics Workshop by the second year. In addition, attendance is recommended for third year and higher. This is in addition to the weekly research seminar (Health Policy 3040A&B) led by Assistant Professors Laura Hatfield and Bapu Jena, which is required of all third-year and higher Health Policy students. Although this is a joint workshop, students must register for this course to receive credit.

(6) Third year students organize a year-long weekly Health Economics Seminar with support from faculty members. This seminar is typically held at the Department of Health Care Policy at Harvard Medical School, and is a venue for students in the concentration to present work in progress and receive feedback from peers and faculty.
FACULTY ASSOCIATED WITH THE ECONOMICS TRACK

- **Katherine Baicker** – C. Boyden Gray Professor of Health Economics, Harvard T.H. Chan School of Public Health
- **David Bloom** – Clarence James Gamble Professor of Economics and Demography, Harvard T.H. Chan School of Public Health
- **David Canning** – Richard Saltonstall Professor of Population Sciences and Professor of Economics and International Health, Harvard T.H. Chan School of Public Health
- **Amitabh Chandra** – Malcolm Weiner Professor of Social Policy, Harvard Kennedy School
- **Michael Chernew** – Leonard D. Schaeffer Professor of Health Care Policy, Harvard Medical School
- **Jessica Cohen** – Associate Professor of Global Health, Harvard T.H. Chan School of Public Health
- **David Cutler** – Otto Eckstein Professor of Applied Economics, Faculty of Arts and Sciences; Member of Faculty, Harvard Kennedy School; Professor in the Dept of Global Health and Population (Harvard T.H. Chan School of Public Health); Harvard College Professor; Chair, PhD Program in Health Policy
- **Leemore Dafny** – MBA Class of 1960 Professor of Business Administration, Harvard Business School
- **Gunther Fink** – Associate Professor of International Health Economics, Harvard T.H. Chan School of Public Health
- **Richard Frank** – Margaret T. Morris Professor of Health Economics, Harvard Medical School
- **David Grabowski** – Professor of Health Care Policy, Harvard Medical School
- **Jerry Green** – John Leverett Professor in the University, David A. Wells Professor of Political Economy, Faculty of Arts and Sciences
- **Robert Huckman** – Albert J. Weatherhead III Professor of Business Administration, Harvard Business School
- **Haiden Huskamp** – Professor of Health Care Policy, Harvard Medical School
- **Anupam Jena** – Ruth L. Newhouse Associate Professor of Health Care Policy, Harvard Medical School
- **Michael Kremer** – Gates Professor of Developing Societies, Faculty of Arts and Sciences
- **Timothy Layton** – Assistant Professor of Health Care Policy, Harvard Medical School
- **Nicole Maestas** – Associate Professor of Health Care Policy, Harvard Medical School
- **Margaret McConnell** – Assistant Professor of Global Health Economics, Harvard T.H. Chan School of Public Health
- **Thomas McGuire** – Professor of Health Economics, Harvard Medical School
- **Joseph Newhouse** – John D. MacArthur Professor of Health Policy and Management (Harvard Medical School, Harvard School of Public Health, Harvard Kennedy School); Director, Harvard Interfaculty Initiative in Health Policy; Chair, Economics track, PhD Program in Health Policy
- **Ariel Pakes** – Thomas Professor of Economics, Faculty of Arts and Sciences
- **Meredith Rosenthal** – Professor of Health Economics and Policy, Harvard T.H. Chan School of Public Health; Associate Dean for Diversity, Harvard T.H. Chan School of Public Health
- **Benjamin Sommers** – Assistant Professor of Health Policy and Economics, Harvard T.H. Chan School of Public Health, Assistant Professor of Medicine, Harvard Medical School
- **Mark Shepard** – Assistant Professor of Public Policy, Harvard Kennedy School
- **Ariel Stern** – Assistant Professor of Business Administration, Harvard Business School
- **Katherine Swartz** – Professor of Health Policy and Economics, Harvard T.H. Chan School of Public Health
- **Richard Zeckhauser** – Frank Plumpton Ramsey Professor of Political Economy, Harvard Kennedy School
COURSE DESCRIPTIONS

REQUIRED COURSES

ECONOMICS AND ECONOMETRICS

Economics 2020a. Microeconomic Theory I
Kotowski
Fall, M/W, 8:40–10 and F Review, 8:45 or 10:15
A comprehensive course in economic theory designed for doctoral students in all parts of the university. Topics include consumption, production, behavior toward risk, markets, and general equilibrium theory. Also looks at applications to policy analysis, business decisions, industrial organization, finance, and the legal system. Undergraduates with appropriate background are welcome, subject to the instructor’s approval.
Note: Students may receive credit for both API-111 and API-101/API-105 only if API-101/105 is taken first. API-111 and API-109 cannot both be taken for credit. Offered jointly with the Kennedy School as API–111 and with the Business School as HBS 4010.
Prerequisite: Multivariate calculus and one course in probability theory. Thorough background in microeconomic theory at the intermediate level.

Economics 2020b. Microeconomic Theory II
Avery, Kohlberg
Spring, M/W, 8:40–10 and F Review, 8:45 or 11:45
A continuation of Economics 2020a. Topics include game theory, economics of information, incentive theory, and welfare economics.
Note: Offered jointly with the Kennedy School as API–112 and with the Business School as 4011.
Prerequisite: Economics 2010a or 2020a.

Economics 2110. Econometrics I
Kasy
Fall, M/W, 10–11:29
(1) Review of probability theory, (2) causality and identification, (3) statistical decision theory, and (4) asymptotic frequentist inference. Empirical applications from labor economics, economics of education, and public finance. Some assignments using Matlab.
Note: Enrollment limited to PhD students in economics, business economics, health policy, public policy, and PEG.
Prerequisite: Probability (Stat 110), Linear Algebra and Calculus (Math 21a and 21b), and Real Analysis (Math 112)

Economics 2120. Introduction to Applied Econometrics
Chamberlain
Spring, T/Th, 2:30–3:59
Introduction to methods employed in applied econometrics, including linear regression, instrumental variables, panel data techniques, generalized method of moments, and maximum likelihood.
Note: Enrollment limited to PhD students in economics, business economics, health policy, public policy, and PEG.
Prerequisite: Economics 2110.

Economics 2140. Econometric Methods (may replace Economics 2120, see Summary of Required Courses)
Plagborg-Moller
Fall, T/Th, 2:30–3:59
Econometric methods for cross-section and panel data. Topics include generalized method of moments, empirical likelihood, instrumental variables, bootstrapping, clustering, treatment effects, selection bias, difference-in-differences, qualitative choice, quantile regression, nonparametric methods, and semiparametric methods.
Prerequisite: Economics 2120 or equivalent.

Economics 2460. Health Economics Workshop
Cutler et al.
Spring, W, 4–5:59
Focuses on theory, econometric models, and public policy of health care. Frontier work in health economics presented and discussed by instructors and outside speakers.
**Economics 2465. Health Economics**  
*Cutler*  
*Spring, T/Th/F, 10–11:29*  
This course surveys topics in health economics. It touches on public sector issues, the industrial organization of health care markets, interactions between health and labor markets, and health in developing countries. Theory and empirical work are presented.  
*Note*: A graduate level microeconomics class at the level of Economics 2010 or 2020 is required for enrollment. Students unsure about the adequacy of their background should contact the instructor.

**Economics 3460c. Research in Health Economics**  
*Newhouse et al.*  
*Fall, T, 8:00–9:29*  
Participants discuss recent research in health economics. Course may also include presentation of original research by participants. Open to doctoral students only.

**FIELD COURSES**

Four one–semester courses from the following options are required. Additional courses may be taken as electives.

**Economics 2030. Psychology and Economics**  
*Laibson, Shleifer*  
*Spring, W, 1–2:59*  
Explores economic and psychological models of human behavior. Topics include bounded rationality, intertemporal choice, decision making under uncertainty, inference, choice heuristics, and social preferences. Economic applications include asset pricing, corporate finance, macroeconomics, labor, development, and industrial organization.  
*Note*: Primarily for graduate students but open to undergraduates.  
*Prerequisite*: Knowledge of multivariable calculus and econometrics.

**Economics 2140. Econometric Methods (may count as a Field Course if not taken to replace Economics 2120)**  
*Plagborg-Moller*  
*Fall, T/Th, 2:30–3:59*  
Econometric methods for cross-section and panel data. Topics include generalized method of moments, empirical likelihood, instrumental variables, bootstrapping, clustering, treatment effects, selection bias, difference-in-differences, qualitative choice, quantile regression, nonparametric methods, and semiparametric methods.  
*Prerequisite*: Economics 2120 or equivalent.

**Economics 2325. Comparative Historical Economic Development**  
*[Not Offered 2016-2017]*  
The course examines the historical origins of differences in the economic and social development of societies. Participants discuss recent research in the field and present their own work in progress.  
*Note*: This course is targeted to second-year Ph.D. students. It is not open to undergraduate or Masters students.

**Economics 2326. Economic Development: Theory and Evidence**  
*Rodrik, Pande*  
*Fall, M/W, 8:45–10 and F Review, 1:15 and 2:45*  
This course aims to study theories of economic (under)development and scrutinize empirical evidence in order to glean insights to design development policy. The course will identify key features of the development process across countries, and develop an analytical framework, grounded in economic theory, to understand these patterns. We will then apply our frameworks combined with rigorous empirical evidence to identify when and how public policies can enable economic growth and development. Macro topics include economic growth and its proximate determinants; resource misallocation, learning and coordination and their impacts on productivity; the impact of historical forces on the evolution of (political) institutions and the development process; and the effect of external influences on development. Micro topics include the determinants of and returns to investments in (health and education) human capital; credit markets, savings behavior, and the returns to financial capital; gender; behavioral economics in development; and governance and corruption.
Note: Jointly offered with the Kennedy School as PED-101

Prerequisite: This course requires multivariate calculus and a basic understanding of statistical methods, micro and macroeconomics. Students taking these courses concurrently should seek the instructors’ permission.

**Economics 2330. History and Human Capital**

*Goldin, Katz*

*Spring, M/W, 10–11:29*

Explores a range of subjects concerning human capital, historically and comparatively. Topics include fertility, mortality, health, immigration, women’s work, child labor, retirement, education, inequality, slavery, unionization, and governmental regulation of labor, all within the broader context of economic history.

**Economics 2390. Development Economics**

*Kremer*

*Fall, M/W, 1–2:29*

This course will cover macro-economic topics including aggregate and non-aggregate growth models, models of technology diffusion and choice; topics in finance including financial development and economic growth, consumer finance; small and medium enterprise finance; debt and equity markets; the role of management and corporate governance; the political economy of finance, and corruption; and a range of topics on the role of population, culture, ethnicity, leaders, corruption in economic development, and the efficacy of industrial policy and foreign aid.

**Economics 2392. The Political Economy of Economic Development**

*Instructor: TBA*

*Spring, M/W, 1–2:29*

Course description not yet available.

**Economics 2450A. Public Economics and Fiscal Policy I**

*Stantcheva*

*Fall, Tu 4–6:59*

This course covers basic issues in the optimal design of tax and social insurance policies, with emphasis on combining theoretical models with empirical evidence. Topics include efficiency costs and incidence of taxation, income taxation, transfer and welfare programs, public goods and externalities, optimal social insurance, and welfare analysis in behavioral models.

Prerequisite: Economics 2010a and 2010b or Economics 2020a and 2020b.

**Economics 2450B. Public Economics and Fiscal Policy II**

*Hendren*

*Spring, M/W, 11:30–12:59*

This course covers theoretical and empirical applications of public economics to policy debates. Topics include education, local public finance, fiscal federalism, housing policy, corporate and international taxation, social security, and macroeconomic stabilization using fiscal policy.

Prerequisite: Economics 2010a and 2010b or Economics 2020a and 2020b. Students are strongly encouraged to take Economics 2450a before taking 2450b.

**Economics 2610. Industrial Organization I**

*Pakes*

*Fall, M/W, 1–2:29*

Applied work in industrial organization. Static analysis (theory, estimation): demand systems, cost functions (adverse selection, moral hazard, productivity), and game theoretic concepts of equilibrium in different types of markets. Dynamic analysis (theory, computation, estimation): single agent problems, dynamic games and their application.

**Economics 2611. Industrial Organization II**

*Kalouptsidi*

*Spring, M/W, 1–2:29*

Application of industrial organization to problems of public policy. Applied analysis of antitrust policy, network industries, vertical relationships, auctions, and other topics depending on interest.

Note: Students are urged to take Economics 2610 before Economics 2611.
Economics 2810A. Labor Market Analysis  
**Katz**  
*Fall, M/W, 10–11:29*  
Theoretical and empirical research on labor markets. Wage determination covers equalizing differences, human capital, job mobility, and incentive models. Labor supply covers life-cycle models. Labor demand includes minimum wage and union models.

Economics 2810B. Labor Economics and Labor Market Institutions  
**Instructor: TBA**  
*Spring, T/Th, 11:30–12:59*  
Examines the operation of the labor market and evaluation of labor market policies. Topics: labor econometrics, theories of wage determination, changes in the wage structure, unemployment, labor market institutions, and globalization.

Economics 2811. Social Economics  
[Not Offered 2016-2017]  
Applies the tools of economics to explore social issues including crime, discrimination, racial and gender differences, poverty, family structure, urban problems, social interactions and peer effects, and intergenerational mobility.

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**ELECTIVE COURSES**

**ECONOMETRICS AND STATISTICS**

Economics 2142. Time Series Analysis  
**Stock**  
*Fall, T/Th, 10–11:29*  
A survey of modern time series econometrics. Topics include univariate models, vector autoregressions, linear and nonlinear filtering, frequency domain methods, unit roots, structural breaks, empirical process theory asymptotics, forecasting, and applications to macroeconomics and finance.

Economics 2150. Machine Learning in Econometrics: Prediction, Estimation, and Big Data  
[Not Offered 2016-2017]  
Innovations in machine learning ('big data') have created many engineering breakthroughs from real time voice recognition to automatic categorization (and in some cases production) of news stories. Since these techniques are novel ways to work with data, they should also have implications for social science. This course explores the intersection of machine learning and social science to answer a few questions about these new techniques: (i) How do they work and what kinds of statistical guarantees can be made about their performance? (ii) How can they be used to answer questions that interest social science researchers, such as testing theories or improving social policy; and (iii) How might they open up new research questions? We will cover standard machine learning techniques such as supervised and unsupervised learning, statistical learning theory and nonparametric and Bayesian approaches. The goal is to create a working understanding of when and how they can be profitably applied. Students will be required to apply some of these techniques, but we will not cover the computational aspects of the underlying methods. The course is aimed at PhD students with a solid background in statistical techniques, such as a first year economics PhD econometrics sequence.

**Peress**  
*Spring, M, 2–3:59*  
Graduate-level version of Gov. 1002. Meets with Gov. 1002, introduces theories of inference underlying most statistical methods and how new approaches are developed. Examples include discrete choice, event counts, durations, missing data, ecological inference, time-series cross sectional analysis, compositional data, causal inference, and others.  
**Prerequisite:** Government 2000 or the equivalent.

(SPH) BST 210. Applied Regression Analysis  
**Wypij, Glynn**  
*Fall, M/W, 8:30–10:20 & Spring, T/Th, 8:30–10:20*  
Emphasizes concepts and methods for analysis of data which are categorical, rate-of-occurrence (e.g., incidence rate), and time-to-event (survival duration). Stresses applications in epidemiology, clinical trials, and other public health research.
Topics include measures of association, 2x2 tables, stratification, matched pairs, logistic regression, model building, analysis of rates, and survival data analysis using proportional hazards models.

*Note:* Lab or section times to be announced at first meeting.

*Prerequisites:* BIO200, or BIO201, or BIO202 and BIO203, or BIO206 and one of BIO207, BIO208, or BIO209, or signature of instructor required.

**ECONOMICS**

**Economics 1415/ (HKS) API-302. Analytic Frameworks for Policy**  
*Avery*  
*Fall, M/W 10:15–11:30; Review Sessions F, 10:15–11:30*  
This course develops abilities in using analytic frameworks in the formulation and assessment of public policies. It considers a variety of analytic techniques, particularly those directed toward uncertainty and interactive decision problems. It emphasizes the application of techniques to policy analysis, not formal derivations. Students encounter case studies, methodological readings, modeling of current events, the computer, a final exam, and challenging problem sets.

*Note:* Jointly offered with the Kennedy School as API–302.  
*Prerequisite:* Economics 1011a or permission of instructor.

**Economics 2035. Psychology and Economic Theory**  
*Rabin*  
*Fall, M, 1–3:59*  
This course explores ways that psychological research indicating systematic departures from classical economic assumptions can be translated into formal models that can be incorporated into economics. Topics include ways utility theory can be improved—such as incorporating reference dependence, news utility, social preferences, self-image, and other belief-based tastes—and ways we can relax assumptions of perfect rationality—such as incorporating focusing effects, limited attention, biased prediction of future tastes, present-biased preferences, biases in probabilistic judgment, and errors in social inference. The course will emphasize (a) careful interpretation and production of new evidence on relevant departures, (b) formalizing this evidence into models that can, with discipline and rigor, generate sharp predictions using traditional economic approaches, and (c) exploring economic implications of those models presented. Although we will primarily emphasize (b), the course is meant to be useful to students whose interests lie anywhere in this spectrum, under the premise that all such research will be improved by a greater appreciation of the full spectrum. The course is intended for PhD students in the Business Economics and Economics programs and others who have a solid background in microeconomic theory at the level of introductory PhD courses in these programs. While obviously appropriate to those wishing to specialize in "behavioral economics", the course is also designed for those interested in doing research in particular fields of economics. And while the course centers on theoretical models (learning and evaluation will center on solving formal problem sets), the theory is focused towards its empirical implementability and economic relevance, so that the course is also designed for those interested in theory-influenced empirical research.

**Economics 2050/ (HKS) API-305. Behavioral Economics, Law and Public Policy**  
*Sunstein*  
*Spring, W, 5:00–6:59*  
This seminar will explore a series of issues at the intersection of behavioral economics and public policy. Potential questions will involve climate change; energy efficiency; health care; and basic rights. There will be some discussion of paternalism and the implications of neuroscience as well.
Economics 2052. Game Theory I: Equilibrium Theory
Instructor: TBA
Spring, M, 4–6:59
Equilibrium analysis and applications. Topics vary, but typically include equilibrium refinements (sequential equilibrium), the equilibria of various classes of games (repeated games, auctions, signaling games) and the definition and application of common knowledge.
Prerequisite: Economics 2010a or permission of the instructor.

Economics 2059. Decision Theory
Strzalecki
Spring, F, 9–11:59
The course focuses on classical models of choice in abstract settings, as well as uncertain and intertemporal environments. We will also study recent models that incorporate insights from psychology, such as temptation and self-control.

Economics 2060A. Contract Theory
Hart
Fall, M/W, 10–11:29
Recent developments in contract theory. Includes hidden action and hidden information models, dynamic agency issues, incomplete contracts, and applications of contract theory to theories of the firm and corporate financial structure.

Economics 2060B. Contract Theory
[Not Offered 2016-2017]
Recent developments in contract theory. Includes hidden action and hidden information models, dynamic agency issues, incomplete contracts, and applications of contract theory to theories of the firm and corporate financial structure.

[Not Offered 2016-2017]
Offers graduate students in relevant disciplines the chance to study the historical origins of central ideas in modern economics and to discuss their philosophical character.

Economics 2082. Social Choice Theory
[Not Offered 2016-2017]
A basic course in social choice theory and its analytical foundations. The subject matter will include possibility theorems in voting and in welfare economics. Attention will be paid to implementation theory, the theory of justice, and the analysis of liberties and rights.

Economics 2099. Market Design
[Not Offered 2016-2017]
This course explores the theory and practice of market design. Topics include auctions, labor market matching, school choice programs, online markets, organ exchange systems, financial market design, and matching with contracts. The course first introduces market design and its technology, and discusses recent papers alongside classical antecedents.
Prerequisites: Students are recommended to have prior graduate or advanced undergraduate course work in at least one of algorithms, game theory, or microeconomics.

Economics 2395. Health, Inequality and Development
Sen, Anand
Fall, T, 1:30–3:29
The course will be focused on an examination of the constitutive role of health in human development, and its instrumental role in economic development. It will include discussion of the conceptual issues and measurement problems in health studies, and also in assessing inequalities in health and healthcare. The correspondence and dissonance in the links between income inequality and health inequality will be investigated, and the challenge of instituting universal health care in poor countries will be examined.

Economics 2412A. Political Economics
Instructor: TBA
Fall, T, 1:00–3:59
Discusses research areas in political economy, including the origins of the state, comparative political systems, theories of economic reform, fiscal problems in democracies, rule of law, privatization, regulation, and elections and the economy.
Economics 2510. Inside Government: Making Public Policy  
**Summers**  
*Spring, T, 5–6:59*  
This seminar will explore an assortment of issues, ranging from environmental regulation (including climate change) to financial regulation to public health, at the intersection of theory and practice. Among other things, the seminar will discuss the role of cost-benefit analysis, legal limits on regulation, and both standard and behavioral economics.

Economics 2880. Economics of Science  
**Freeman**  
*Spring, Th, 2:30–5:29*  
Analyzes issues regarding the role of science/R&D in the economy and in the deployment and productivity of scientists, engineers, and skilled workers. Topics include: wage levels/employment prospects; stipend policy, education/recruitment, student unionization/post-doc organization, career choices, with reference to women; scientific competition/collaboration.

Psychology 2650. Behavioral Approaches to Decision Making and Negotiation  
*Not offered 2016-2017*  
Overview of behavioral decision making and decision analytic perspectives to negotiation. Explores bounded rationality, decision biases, human decision making. Develops a behavioral decision perspective to negotiation, and examines how the field is currently evolving. Offered jointly with the Business School as 4420.

**RESEARCH SEMINARS and WORKSHOPS**

These seminars and workshops have been found to be useful by students enrolled in related field work. Attendance is recommended but courses do not count for credit towards program or concentration requirements. In the 2000-level seminars (often referred to as “lunches”), graduate students present research in progress. In the 3000-level workshops, presentations are by Harvard faculty members, outside speakers, and graduate students on the job market.

Economics 2390DHF (A and B). Research in Economic Development  
*Fall, T, 1:00–2:30 & Spring, Th, 12:00-2:00*

*Fall & Spring, T, 1:00–2:29*

Economics 2640HF (A and B). Research in Industrial Organization  
*Fall & Spring, W, 2:30–3:59*

Economics 2812HF (A and B). Research in Labor Economics  
*Fall & Spring, T, 1:00–2:29*

Economics 3011. The Behavioral and Experimental Economics Workshop  
*Fall W, 1:00–2:29 & Spring T, 2:30–3:59*  
For students with an interest in economic theory. The location alternates between Harvard and MIT.  
**Prerequisite:** Economics 2010a (or 2020a) and 2010b (or 2020b).

Economics 3390HF (A and B). Economic Development Workshop  
*Fall, T, 2:30–3:59 & Spring, W, 2:30–3:59*  
Fall speakers cover issues in growth and development. Spring speakers alternate between “growth and institutions,” focusing on the macro aspects of growth and development, and “labor and development,” focusing on the micro aspects.

Economics 3450HF (A and B). The Public Economics and Fiscal Policy Seminar  
*Fall & Spring, M, 4:00–5:59*

Economics 3650HF (A and B). The Industrial Organization Workshop  
*Fall & Spring, M, 2:30–3:59*

Economics 3810CHFR (A and B). The Labor Economics Workshop  
*Fall & Spring, W, 4:00–5:29*