General Economics and Theory

14.00 Undergraduate Internship in Economics
Prereq: Permission of instructor
U (IAP, Summer)
Units arranged [P/D/F]
Can be repeated for credit.

For Course 14 students participating in off-campus internship experiences in economics. Before registering for this subject, students must have an employment offer from a company or organization and must identify a Course 14 supervisor. Upon completion of the internship, student must submit a letter from the employer describing the work accomplished, along with a substantive final report from the student approved by the MIT supervisor. Subject to departmental approval. Consult departmental undergraduate office.
Consult D. Donaldson

14.000 Graduate Internship in Economics
Prereq: Permission of instructor
G (IAP, Summer)
Units arranged [P/D/F]
Can be repeated for credit.

For Course 14 students participating in off-campus internship experiences in economics. Before registering for this subject, students must have an employment offer from a company or organization and must identify a Course 14 supervisor. Upon completion of the internship, student must submit a letter from the employer describing the work accomplished, along with a substantive final report from the student approved by the MIT supervisor. Subject to departmental approval. Consult departmental graduate office.
Consult R. Caballero

14.001 Data Economics and Development Policy Summer Internship
Prereq: Permission of department
G (Fall, Spring, Summer)
0-1-0 units

Provides students in the DEDP Master’s program the opportunity to synthesize their coursework and professional experience in development economics and data analysis. In the context of a summer internship, students apply the knowledge gained in the program towards a project with a host organization, typically in the development sector. Students will be supported in finding a suitable opportunity or research project. All internship placements are subject to approval by the program director. Each student must write a capstone project report. Restricted to DEDP MASc students.
S. Ellison

14.003 Microeconomic Theory and Public Policy
Subject meets with 14.03
Prereq: 14.01 or permission of instructor
G (Fall, Spring)
4-0-8 units

Applies microeconomic theory to analysis of public policy. Builds from microeconomic model of consumer behavior; extends to operation of single and multiple markets and analysis of why markets sometimes fail. Empirical examples to evaluate theory, focusing on the casual effects of policy interventions on economic outcomes. Topics include minimum wages and employment, food stamps and consumer welfare, economics of risk and safety regulation, the value of education, and gains from international trade. Graduate students are expected to complete additional assignments.
Consult N. Agarwal, D. Autor, T. Salz

14.009 Economics and Society's Toughest Problems
Prereq: None
U (Fall)
1-0-2 units

Should we trade more or less with China? Why are some countries poor, and some countries rich? Why are the 1% getting richer? Should the US have a universal basic income? Why is our society becoming so polarized? What can we do to mitigate climate change? Will robots take all the jobs? Why does racism persist and how can we fight it? What will the world economy look like after the COVID-19 recession? Economics shows you how to think about some of the toughest problems facing society -- and how to use data to get some answers. This exploratory course features lectures by MIT’s economics faculty, showing how their cutting-edge research can help answer these questions. Subject can count toward the 6-unit discovery-focused credit limit for first-year students.
A. Banerjee, E. Duflo
14.01 Principles of Microeconomics
Prereq: None
U (Fall, Spring)
3-0-9 units. HASS-S
Introduces microeconomic concepts and analysis, supply and demand analysis, theories of the firm and individual behavior, competition and monopoly, and welfare economics. Applications to problems of current economic policy.
J. Gruber, S. Ellison

14.02 Principles of Macroeconomics
Prereq: None
U (Fall, Spring)
3-0-9 units. HASS-S
Provides an overview of macroeconomic issues including the determination of national income, economic growth, unemployment, inflation, interest rates, and exchange rates. Introduces basic macroeconomic models and illustrates key principles through applications to the experience of the US and other economies. Explores a range of current policy debates, such as the economic effects of monetary and fiscal policy, the causes and consequences of the 2008 global financial crisis, and the factors that influence long-term growth in living standards. Lectures are recorded and available for students with scheduling conflicts.
M. Beraja, R. Caballero

14.03 Microeconomic Theory and Public Policy
Subject meets with 14.003
Prereq: 14.01 or permission of instructor
U (Fall, Spring)
4-0-8 units. HASS-S
Applies microeconomic theory to analysis of public policy. Builds from microeconomic model of consumer behavior; extends to operation of single and multiple markets and analysis of why markets sometimes fail. Empirical examples to evaluate theory, focusing on the casual effects of policy interventions on economic outcomes. Topics include minimum wages and employment, food stamps and consumer welfare, economics of risk and safety regulation, the value of education, and gains from international trade.
Consult N. Agarwal, D. Autor, T. Salz

14.04 Intermediate Microeconomic Theory
Prereq: Calculus II (GIR) and 14.01
Acad Year 2021-2022: Not offered
Acad Year 2022-2023: U (Fall)
4-0-8 units. HASS-S
Analysis of consumer and producer decisions including analysis of competitive and monopolistic markets. Price-based partial and general equilibrium analysis. Introduction to game theory as a foundation for the strategic analysis of economic situations. Imperfect competition, dynamic games among firms. Failures of general equilibrium theory and their resolutions: externalities, public goods, incomplete information settings, signaling, screening, insurance, alternative market mechanisms, auctions, design of markets.
R. Townsend

14.05 Intermediate Macroeconomics
Prereq: 14.01 and (14.02 or permission of instructor)
U (Fall)
4-0-8 units. HASS-S
Uses the tools of macroeconomics to investigate various macroeconomic issues in depth. Topics range from economic growth and inequality in the long run to economic stability and financial crises in the short run. Surveys many economic models used today. Requires a substantial research paper on the economics of long-run economic growth.
Consult Department Headquarters

14.06 Advanced Macroeconomics
Prereq: 14.01 and 14.02
Acad Year 2021-2022: Not offered
Acad Year 2022-2023: U (Spring)
4-0-8 units. HASS-S
Blends a thorough study of the theoretical foundations of modern macroeconomics with a review of useful mathematical tools, such as dynamic programming, optimal control, and dynamic systems. Develops comfort with formal macroeconomic reasoning and deepens understanding of key macroeconomic phenomena, such as business cycles. Goes on to study more specific topics, such as unemployment, financial crises, and the role of fiscal and monetary policy. Special attention to reviewing relevant facts and disentangling them from their popular interpretations. Uses insights and tools from game theory. Includes applications to recent and historical events.
G. M. Angeletos
14.07 Financial Markets and the Macroeconomy
Prereq: 14.01 and 14.02
U (Fall)
Not offered regularly; consult department
4-0-8 units. HASS-S

Analyzes the macroeconomic effects of financial markets, with emphasis on understanding financial crises. Surveys the benchmark theories of asset pricing, investment, and the capital structure. Topics include risk, arbitrage, financial market equilibrium, and market efficiency. Also introduces financial frictions, and analyzes the mechanisms by which frictions cause financial crises; focuses on asymmetric information, leverage, financial intermediation, belief disagreements, asset bubbles, fire sales, bank runs, interconnections, and complexity.

Consult Department Headquarters

14.08 Technical Topics in Economics
Prereq: 14.01
U (Fall, Spring)
4-0-8 units
Can be repeated for credit.

Considers technical issues of current research interest in economics.

Consult Department Headquarters

14.09 Reading Seminar in Economics
Prereq: 14.04 and 14.06
U (Fall, IAP, Spring, Summer)
Units arranged [P/D/F]
Can be repeated for credit.

Reading and discussion of particular topics in economics. Open to undergraduate students by arrangement with individual faculty members. Consult Department Headquarters.
D. Donaldson

14.10 Reading Seminar in Economics
Prereq: 14.04 and 14.06
U (Fall, IAP, Spring, Summer)
Units arranged
Can be repeated for credit.

Reading and discussion of particular topics in economics. Open to undergraduate students by arrangement with individual faculty members. Consult Department Headquarters.
D. Donaldson

14.11 Topics in Economics
Prereq: 14.01
U (Fall)
Not offered regularly; consult department
4-0-8 units. HASS-S
Can be repeated for credit.

Considers issues of current research interest in economics.

Consult Department Headquarters

14.12 Economic Applications of Game Theory
Prereq: 14.01 and (6.041B, 14.04, 14.30, 18.05, or permission of instructor)
U (Fall)
4-0-8 units. HASS-S

Analysis of strategic behavior in multi-person economic settings. Introduction to solution concepts, such as rationalizability, backwards induction, Nash equilibrium, subgame-perfect equilibrium, and sequential equilibrium. Strong emphasis on dynamic games, such as repeated games. Introduction to Bayesian games, focusing on Bayesian Nash Equilibrium, Perfect Bayesian Equilibrium, and signaling games. Applications drawn from microeconomics: imperfect competition, implicit cartels, bargaining, and auctions.
I. Ball

14.121 Microeconomic Theory I
Prereq: 14.04 and permission of instructor
G (Fall; first half of term)
3-0-3 units

Covers consumer and producer theory, markets and competition, general equilibrium and the welfare theorems; featuring applications, uncertainty, identification and restrictions models place on data. Enrollment limited; preference to PhD students.
P. Pathak

14.122 Microeconomic Theory II
Prereq: 14.121 and permission of instructor
G (Fall; second half of term)
3-0-3 units

Introduction to game theory. Topics include normal form and extensive form games, and games with incomplete information. Enrollment limited.
G. Ellison
14.123 Microeconomic Theory III  
Prereq: 14.121, 14.122, and permission of instructor  
G (Spring; first half of term)  
3-0-3 units  
Models of individual decision-making under certainty and uncertainty. Additional topics in game theory. Enrollment limited.  
*D. Fudenberg*

14.124 Microeconomic Theory IV  
Prereq: 14.123 or permission of instructor  
G (Spring; second half of term)  
3-0-3 units  
Introduction to statistical decision theory, incentive contracting (moral hazard and adverse selection), mechanism design and incomplete contracting. Enrollment limited.  
*A. Wolitzky*

14.125 Market Design  
Prereq: 14.124  
G (Spring)  
4-0-8 units  
Theory and practice of market design, building on ideas from microeconomics, game theory and mechanism design. Prominent case studies include auctions, labor markets, school choice, prediction markets, financial markets, and organ exchange clearinghouses.  
*P. Pathak*

14.126 Game Theory  
Prereq: 14.122  
G (Spring)  
3-0-9 units  
Rigorous investigation of the evolutionary and epistemic foundations of solution concepts, such as rationalizability and Nash equilibrium. Covers classical topics, such as repeated games, bargaining, reputation, and supermodular games as well as new topics such as global games, heterogeneous priors, psychological games, and games without expected utility maximization. Applications provided when available.  
*D. Fudenberg, A. Wolitzky, M. Yildiz*

14.127 Advanced Game Theory (New)  
Prereq: None  
G (Fall)  
4-0-8 units  
For students who plan to do game theory research. Covers the following topics: epistemic foundations of game theory, higher order beliefs, the role and status of common prior assumptions, social networks and social learning, repeated and stochastic games, non-equilibrium learning, stochastic stability and evolutionary dynamics, game theory experiments, and behavioral game theory.  
*D. Fudenberg, M. Yildiz*

14.13 Psychology and Economics  
Subject meets with 14.131  
Prereq: 14.01  
U (Spring)  
4-0-8 units. HASS-S  
Introduces the theoretical and empirical literature of behavioral economics. Examines important and systematic departures from the standard models in economics by incorporating insights from psychology and other social sciences. Covers theory and evidence on time, risk, and social preferences; beliefs and learning; emotions; limited attention; and frames, defaults, and nudges. Studies applications to many different areas, such as credit card debt, procrastination, retirement savings, addiction, portfolio choice, poverty, labor supply, happiness, and government policy. Students participate in surveys and experiments in class, review evidence from lab experiments, examine how the results can be integrated into models, and test models using field and lab data. Students taking graduate version complete additional assignments.  
*F. Schilbach*

14.130 Reading Economic Theory  
Prereq: 14.121 and 14.451  
Acad Year 2021-2022: Not offered  
Acad Year 2022-2023: G (Fall)  
2-0-10 units  
Can be repeated for credit.  
Class will read and discuss current research in economic theory with a focus on game theory, decision theory, and behavioral economics. Students will be expected to make one presentation and to read and post comments on every paper by the day before the paper is presented. Permission of the instructor required, and auditors are not allowed.  
*D. Fudenberg*
14.131 Psychology and Economics
Subject meets with 14.13
Prereq: 14.01
G (Spring)
4.0-8 units
Introduces the theoretical and empirical literature of behavioral economics. Examines important and systematic departures from the standard models in economics by incorporating insights from psychology and other social sciences. Covers theory and evidence on time, risk, and social preferences; beliefs and learning; emotions; limited attention; and frames, defaults, and nudges. Studies applications to many different areas, such as credit card debt, procrastination, retirement savings, addiction, portfolio choice, poverty, labor supply, happiness, and government policy. Students participate in surveys and experiments in class, examine how the results can be integrated into models, and test models using field and lab data. Students taking graduate version complete additional assignments.
F. Schilbach

14.137[J] Psychology and Economics
Same subject as 9.822[J]
Prereq: None
G (Spring)
4.0-8 units
Examines "psychology appreciation" for economics students. Aims to enhance knowledge and intuition about psychological processes in areas relevant to economics. Increases understanding of psychology as an experimental discipline, with its own distinct rules and style of argument. Topics include self-knowledge, cognitive dissonance, self-deception, emotions, social norms, self-control, learning, mental accounting, memory, individual and group behavior, and some personality and psycho-analytic models. Within each of these topics, we showcase effective and central experiments and discuss their role in the development of psychological theory. Term paper required.
D. Prelec

14.147 Topics in Game Theory
Prereq: 14.126
G (Spring)
4.0-8 units
Advanced subject on topics of current research interest.
D. Fudenberg

14.15[J] Networks
Same subject as 6.207[J]
Subject meets with 14.150
Prereq: 6.041 or 14.30
U (Spring)
4.0-8 units. HASS-S
Highlights common principles that permeate the functioning of diverse technological, economic and social networks. Utilizes three sets of tools for analyzing networks—random graph models, optimization, and game theory—to study informational and learning cascades; economic and financial networks; social influence networks; formation of social groups; communication networks and the Internet; consensus and gossiping; spread and control of epidemics; control and use of energy networks; and biological networks. Students taking graduate version complete additional assignments.
A. Wolitzky

14.150 Networks (New)
Subject meets with 6.207[J], 14.15[J]
Prereq: 6.041 or 14.300
G (Spring)
4.0-8 units
Highlights common principles that permeate the functioning of diverse technological, economic and social networks. Utilizes three sets of tools for analyzing networks—random graph models, optimization, and game theory—to study informational and learning cascades; economic and financial networks; social influence networks; formation of social groups; communication networks and the Internet; consensus and gossiping; spread and control of epidemics; control and use of energy networks; and biological networks. Students taking graduate version complete additional assignments.
A. Wolitzky

14.16 Strategy and Information
Prereq: 14.01 or permission of instructor
U (Spring)
4.0-8 units. HASS-S
Covers modern applications of game theory where incomplete information plays an important role. Applications include bargaining, auctions, global games, market design, information design, and network economics.
M. Yildiz
14.160 Behavioral Economics
Prereq: 14.122
G (Spring)
4-0-8 units
Covers recent theory and empirical evidence in behavioral economics. Topics include deviations from the neoclassical model in terms of (i) preferences (present bias, reference dependence, social preferences), (ii) beliefs (overconfidence, projection bias), and (iii) decision-making (cognition, attention, framing, persuasion), as well as (iv) market reactions to such deviations. Applications will cover a large range of fields, including labor and public economics, industrial organization, health economics, finance, and development economics.
A. Banerjee, F. Schilbach

14.18 Mathematical Economic Modeling
Prereq: 14.04, 14.12, 14.15[J], or 14.19
U (Spring)
4-0-8 units. HASS-S
Guides students through the process of developing and analyzing formal economic models and effectively communicating their results. Topics include decision theory, game theory, voting, and matching. Instruction and practice in oral and written communication provided. Prior coursework in microeconomic theory and/or proof-based mathematics required.
Consult Department Headquarters

14.19 Market Design
Prereq: 14.01
U (Fall)
4-0-8 units. HASS-S
Covers the design and operation of organized markets, building on ideas from microeconomic and game theory. Topics may include mechanism design, auctions, matching markets, and other resource allocation problems.
P. Pathak

14.191 Independent Research Paper
Prereq: Permission of instructor
G (Fall, IAP, Spring, Summer)
0-12-0 units
Can be repeated for credit.
Under supervision of a faculty member approved by Graduate Registration Officer, student writes a substantial, probably publishable research paper. Must be completed by the end of a student’s second year to satisfy the departmental minor requirement.
Staff

14.192 Advanced Research and Communication
Prereq: 14.124, 14.382, and 14.454
G (Fall, IAP, Spring)
2-4-6 units
Can be repeated for credit.
Guides second-year Economics PhD students through the process of conducting and communicating economic research. Students choose topics for research projects, develop research strategies, carry out analyses, and write and present research papers. Limited to second year Economics PhD students.
Consult Department Headquarters

14.193 Advanced Seminar in Economics
Prereq: 14.121 and 14.451
G (Fall, Spring, Summer)
Units arranged
Can be repeated for credit.
Reading and discussion of current topics in economics. Open to advanced graduate students by arrangement with individual members of the staff.
Consult Department headquarters

14.195 Reading Seminar in Economics
Prereq: 14.121
G (Fall, Spring, Summer)
Units arranged [P/D/F]
Can be repeated for credit.
Reading and discussion of current topics in economics. Open to advanced graduate students by arrangement with individual members of the staff.
Staff

14.197 Independent Research
Prereq: None
G (Fall, IAP, Spring, Summer)
Units arranged [P/D/F]
Can be repeated for credit.
Under supervision of a faculty member approved by Graduate Registration Officer, student conducts independent research.
Staff
14.198, 14.199 Teaching Introductory Economics
Prereq: None
G (Fall, Spring)
2-0-2 units
Can be repeated for credit.
Required of teaching assistants in introductory economics (14.01 and 14.02), under supervision of the faculty member in charge of the subject.

14.281 Contract Economics
Prereq: 14.124
G (Fall)
4-0-8 units
Covers theoretical research on contracts in static as well as dynamic settings. Emphasis is on canonical models in contracting (agency theory, mechanism design, incomplete contracting) illustrated by major areas of application (e.g. compensation, labor and capital markets, property rights, organizational design, corporate finance). I. Ball, S. Morris

Industrial Organization

14.20 Industrial Organization: Competitive Strategy and Public Policy
Subject meets with 14.200
Prereq: 14.01
U (Spring)
4-0-8 units. HASS-S
Analyzes the current debate over the rise of monopolies, the strategic behavior and performance of firms in imperfectly competitive markets, and the role of competition policy. Topics include monopoly power; pricing, product choice, and innovation decisions by firms in oligopoly markets; static and dynamic measurement of market performance; and incentives in organizations. Requires regular participation in class discussion and teamwork in a competitive strategy game. Students taking graduate version complete additional assignments.
N. Rose

14.270 Economics and E-Commerce (New)
Subject meets with 14.270
Prereq: 14.01 and (6.041 or 14.30)
G (Spring)
4-0-8 units
Uses theoretical economic models and empirical evidence to help understand the growth and future of e-commerce. Economic models help frame class discussions of, among other topics, content provision, privacy, piracy, sales taxation, group purchasing, price search, and advertising on the internet. Empirical project and paper required. Students taking graduate version complete additional assignments.
S. Ellison
14.271 Industrial Organization I
Prereq: None. Coreq: 14.122 and 14.381
G (Fall)
5-0-7 units
Covers theoretical and empirical work dealing with the structure, behavior, and performance of firms and markets and core issues in antitrust. Topics include: the organization of the firm, monopoly, price discrimination, oligopoly, and auctions. Theoretical and empirical work are integrated in each area.
_G. Ellison, S. Ellison_

14.272 Industrial Organization II
Prereq: 14.271
G (Spring)
5-0-7 units
Continuation of 14.271, which focuses on government interventions in monopoly and oligopoly markets, and addresses both competition and regulatory policy. Topics include horizontal merger policy and demand estimation, vertical integration and vertical restraints, and the theory and practice of economic regulation. Applications include the political economy of regulation; the performance of economic regulation; deregulation in sectors, including electric power, transportation, and financial services; and pharmaceutical and environmental regulation in imperfectly competitive product markets.
_N. Rose, M. Whinston_

14.273 Advanced Topics in Industrial Organization
Prereq: 14.271
G (Spring)
5-0-7 units
Empirical analysis of theoretically derived models of market behavior. Varied topics include demand estimation, differentiated products, production functions, analysis of market power, entry and exit, vertical relationships, auctions, matching markets, network externalities, dynamic oligopoly, moral hazard and adverse selection. Discussion will focus on methodological issues, including identification, estimation, counter-factual analysis and simulation techniques.
_N. Agarwal, T. Salz_

14.26[J] Organizational Economics
Same subject as 15.039[J]
Subject meets with 14.260
Prereq: 14.01
U (Spring)
4-0-8 units. HASS-S
Provides a rigorous, but not overly technical introduction to the economic theory of organization together with a varying set of applications. Addresses incentives, control, relationships, decision processes, and organizational culture and performance. Introduces selected fundamentals of game theory. Students taking graduate version complete additional assignments. Limited to 60.
_C. Angelucci_

14.260 Organizational Economics
Subject meets with 14.26[J], 15.039[J]
Prereq: None
G (Spring)
4-0-8 units
Provides a rigorous, but not overly technical introduction to the economic theory of organization together with a varying set of applications. Addresses incentives, control, relationships, decision processes, and organizational culture and performance. Introduces selected fundamentals of game theory. Students taking graduate version complete additional assignments. Limited to 60.
_C. Angelucci_

14.282 Introduction to Organizational Economics
Prereq: 14.124
G (Fall)
5-0-7 units
Begins with survey of contract theory for organizational economists, then introduces the main areas of the field, including the boundary of the firm; decision-making, employment, structures and processes in organizations; and organizations other than firms.
_C. Angelucci, R. Gibbons_

14.283 Advanced Topics in Organizational Economics I
Prereq: 14.282
G (Spring; first half of term)
2-0-4 units
Builds on the work done in 14.282 to develop more in-depth analysis of topics in the field.
_R. Gibbons_
14.284 Advanced Topics in Organizational Economics II
Prereq: 14.282
G (Spring; second half of term)
2-0-4 units
Builds on the work done in 14.282 to develop more in-depth analysis of topics in the field.
C. Angelucci

Statistics and Econometrics

14.30 Introduction to Statistical Methods in Economics
Subject meets with 14.300
Prereq: Calculus II (GIR)
U (Fall)
4-0-8 units. REST
Self-contained introduction to probability and statistics with applications in economics and the social sciences. Covers elements of probability theory, statistical estimation and inference, regression analysis, causal inference, and program evaluation. Couples methods with applications and with assignments involving data analysis. Uses basic calculus and matrix algebra. Students taking graduate version complete additional assignments. May not count toward HASS requirement.
A. Abadie

14.330 Introduction to Statistical Methods in Economics
Subject meets with 14.30
Prereq: Calculus II (GIR)
G (Fall)
4-0-8 units
Self-contained introduction to probability and statistics with applications in economics and the social sciences. Covers elements of probability theory, statistical estimation and inference, regression analysis, causal inference, and program evaluation. Couples methods with applications and with assignments involving data analysis. Uses basic calculus and matrix algebra. Students taking graduate version complete additional assignments.
A. Abadie

14.310 Data Analysis for Social Scientists
Prereq: None
G (Spring)
Not offered regularly; consult department
4-0-8 units
Introduces methods for harnessing data to answer questions of cultural, social, economic, and policy interest. Presents essential notions of probability and statistics. Covers techniques in modern data analysis: regression and econometrics, prediction, design of experiment, randomized control trials (and A/B testing), machine learning, data visualization, analysis of network data, and geographic information systems. Projects include analysis of data with a written description and interpretation of results; may involve gathering of original data or use of existing data sets. Applications drawn from real world examples and frontier research. Instruction in use of the statistical package R. Students taking graduate version complete additional assignments.
Consult E. Duflo

14.32 Econometric Data Science
Subject meets with 14.320
Prereq: 14.30
U (Fall, Spring)
4-4-4 units. Institute LAB
Introduces multiple regression methods for causal inference and descriptive analysis in economics and related disciplines. Extensions include instrumental variables methods, analysis of randomized experiments and quasi-experimental research designs, and regression with time series data. Develops the skills needed to conduct -- and critique -- empirical studies in economics and related fields. Students complete an empirical project with a written description and interpretation of results; this may involve original data collection or use of existing data sets. Applications drawn from real-world examples and frontier research. Familiarity with statistical programming languages is helpful. Students taking graduate version complete additional assignments. Limited to 70 total for versions meeting together.
A. Mikusheva, J. Angrist
14.320 Econometric Data Science
Subject meets with 14.32
Prereq: 14.300
G (Fall, Spring)
4-4-4 units
Introduces multiple regression methods for causal inference and descriptive analysis in economics and related disciplines. Extensions include instrumental variables methods, analysis of randomized experiments and quasi-experimental research designs, and regression with time series data. Develops the skills needed to conduct - and critique - empirical studies in economics and related fields. Students complete an empirical project with a written description and interpretation of results; this may involve original data collection or use of existing data sets. Applications drawn from real-world examples and frontier research. Familiarity with statistical programming languages is helpful. Students taking graduate version complete additional assignments. Limited to 70 total for versions meeting together.
A. Mikusheva, J. Angrist

14.33 Research and Communication in Economics: Topics, Methods, and Implementation
Prereq: 14.32 and (14.01 or 14.02)
U (Fall, Spring)
3-4-5 units. HASS-S
Exposes students to the process of conducting independent research in empirical economics and effectively communicating the results of the research. Emphasizes econometric analysis of an assigned economic question and culminates in each student choosing an original topic, performing appropriate analysis, and delivering oral and written project reports. Limited to 20 per section.
Staff

14.36 Advanced Econometrics
Subject meets with 14.387
Prereq: 14.32
Acad Year 2021-2022: Not offered
Acad Year 2022-2023: U (Spring; first half of term)
2-0-4 units
Emphasizes econometric theory, methods, and applications using regression, instrumental variables, differences-in-differences, regression discontinuity designs, machine learning and big data sets, and problems related to standard errors and statistical inference. Includes a project with a theoretical, written and data-analytic component. Familiarity with Stata or a similar statistical programming language recommended. Students taking graduate version complete additional assignments.
J. Angrist

14.38 Inference on Causal and Structural Parameters Using ML and AI
Subject meets with 14.388
Prereq: 14.32
U (Spring)
4-0-8 units
Provides an applied treatment of modern causal inference with high-dimensional data, focusing on empirical economic problems encountered in academic research and the tech industry. Formulates problems in the languages of structural equation modeling and potential outcomes. Presents state-of-the-art approaches for inference on causal and structural parameters, including de-biased machine learning, synthetic control methods, and reinforcement learning. Introduces tools from machine learning and deep learning developed for prediction purposes, and discusses how to adapt them to learn causal parameters. Emphasizes the applied and practical perspectives. Requires knowledge of mathematical statistics and regression analysis and programming experience in R or Python.
V. Chernozhukov

14.380 Statistical Method in Economics
Prereq: Calculus II (GIR) and permission of instructor
G (Fall; first half of term)
3-0-3 units
Introduction to probability and statistics as background for advanced econometrics. Covers elements of probability theory, sampling theory, asymptotic approximations, hypothesis testing, and maximum-likelihood methods. Illustrations from economics and application of these concepts to economic problems. Limited to 40.
A. Mikusheva

14.381 Applied Econometrics
Prereq: 14.32 and (14.03 or 14.04)
G (Fall; second half of term)
3-0-3 units
Explains basic econometric ideas and methods, illustrating throughout with empirical applications. Cross-sectional causal inference is emphasized and examples of economic models are given. Topics include randomized trials, regression, instrumental variables, regression, discontinuity designs, and diffs-in-diffs. Basic asymptotic theory for regression is studied and problems related to standard errors and statistical inference are resolved. No listeners.
W. Newey
14.382 Econometrics
Prereq: 14.381 or permission of instructor
G (Spring)
5-0-7 units
Covers key models as well as identification and estimation methods used in modern econometrics. Presents modern ways to set up problems and do better estimation and inference than the current empirical practice. Introduces generalized method of moments and the method of M-estimators in addition to more modern versions of these methods dealing with important issues, such as weak identification or biases arising in high dimensions. Also discusses the bootstrap and explores very high dimensional formulations, or "big data." Students gain practical experience by applying the methods to real data sets. Enrollment limited.
V. Chernozhukov

14.384 Time Series Analysis
Prereq: 14.382 or permission of instructor
G (Fall)
5-0-7 units
Studies theory and application of time series methods in econometrics, including spectral analysis, estimation with stationary and non-stationary processes, VARs, factor models, unit roots, cointegration, estimation of DSGE models, and Bayesian methods. Enrollment limited.
A. Mikusheva

14.385 Nonlinear Econometric Analysis
Prereq: 14.382 or permission of instructor
G (Fall)
5-0-7 units
Develops a full understanding of and ability to apply microeconometric models and methods. Topics include extremum estimators, including minimum distance and simulated moments, identification, partial identification, sensitivity analysis, many weak instruments, nonlinear panel data, de-biased machine learning, discrete choice models, nonparametric estimation, quantile regression, and treatment effects. Methods are illustrated with economic applications. Enrollment limited.
A. Abadie, W. Newey

14.386 New Econometric Methods
Prereq: 14.382
G (Spring)
4-0-8 units
Exposes students to the frontier of econometric research. Includes fundamental topics such as empirical processes, semiparametric estimation, nonparametric instrumental variables, inference under partial identification, large-scale inference, empirical Bayes, and machine learning methods. Other topics vary from year to year, but can include empirical likelihood, weak identification, and networks.
A. Abadie, W. Newey

14.387 Applied Econometrics
Subject meets with 14.36
Prereq: 14.382
Acad Year 2021-2022: Not offered
Acad Year 2022-2023: G (Spring; first half of term)
2-0-4 units
Emphasizes econometric theory, methods, and applications using regression, instrumental variables, differences-in-differences, regression discontinuity designs, machine learning and big data sets, and problems related to standard errors and statistical inference. Includes a project with a theoretical, written and data-analytic component. Students taking graduate version complete additional assignments.
J. Angrist

14.388 Inference on Causal and Structural Parameters Using ML and AI
Subject meets with 14.38
Prereq: 14.381
G (Spring)
4-0-8 units
Provides an applied treatment of modern causal inference with high-dimensional data, focusing on empirical economic problems encountered in academic research and the tech industry. Formulates problems in the languages of structural equation modeling and potential outcomes. Presents state-of-the-art approaches for inference on causal and structural parameters, including de-biased machine learning, synthetic control methods, and reinforcement learning. Introduces tools from machine learning and deep learning developed for prediction purposes, and discusses how to adapt them to learn causal parameters. Emphasizes the applied and practical perspectives. Requires knowledge of mathematical statistics and regression analysis and programming experience in R or Python.
V. Chernozhukov
**14.391 Workshop in Economic Research**  
Prereq: 14.124 and 14.454  
G (Fall)  
2-0-10 units  
Can be repeated for credit.  
Develops research ability of students through intensive discussion of dissertation research as it proceeds, individual or group research projects, and critical appraisal of current reported research. Workshops divided into various fields, depending on interest and size.  
*Staff*

**14.392 Workshop in Economic Research**  
Prereq: 14.124 and 14.454  
G (Spring)  
2-0-10 units  
Can be repeated for credit.  
Develops research ability of students through intensive discussion of dissertation research as it proceeds, individual or group research projects, and critical appraisal of current reported research. Workshops divided into various fields, depending on interest and size.  
*Staff*

**14.399 Seminar in Data Economics and Development Policy**  
Prereq: Permission of instructor  
G (Spring)  
2-0-10 units  
Group study of current topics in development policy and research. Includes student presentations and invited speakers. Restricted to DEDP MASc students.  
*S. Ellison*

**National Income and Finance**

**14.410 Public Finance and Public Policy**  
Subject meets with 14.41  
Prereq: 14.01  
G (Fall)  
4-0-8 units  
Explores the role of government in the economy, applying tools of basic microeconomics to answer important policy questions such as government response to global warming, school choice by K-12 students, Social Security versus private retirement savings accounts, government versus private health insurance, setting income tax rates for individuals and corporations. Students taking the graduate version complete additional assignments.  
*J. Gruber*

Same subject as 15.470[J]  
Prereq: None  
G (Fall)  
4-0-8 units  
See description under subject 15.470[J].  
*L. Kogan, L. Schmidt*

**14.42 Environmental Policy and Economics**  
Subject meets with 14.420  
Prereq: 14.01  
Acad Year 2021-2022: Not offered  
Acad Year 2022-2023: U (Spring)  
4-0-8 units. HASS-S  
Introduces key concepts and recent advances in environmental economics, and explores their application to environmental policy questions. Topics include market efficiency and market failure, methods for valuing the benefits of environmental quality, the proper role of government in the regulation of the environment, environmental policy design, and implementation challenges. Considers international aspects of environmental policy as well, including the economics of climate change, trade and the environment, and environmental challenges in developing countries. Students taking graduate version complete additional assignments.  
*C. Balboni*
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Semesters Offered</th>
<th>Units</th>
<th>Attributes</th>
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<tbody>
<tr>
<td>14.420</td>
<td>Environmental Policy and Economics</td>
<td>Prereq: 14.01</td>
<td>Acad Year 2021-2022: Not offered</td>
<td>4-0-8</td>
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<td>Acad Year 2022-2023: G (Spring)</td>
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<td>Introduces students to key concepts and recent advances in environmental economics, and explores their application to environmental policy questions. Topics include market efficiency and market failure, methods for valuing the benefits of environmental quality, the proper role of government in the regulation of the environment, environmental policy design and implementation challenges. Also considers international aspects of environmental policy including the economics of climate change, trade and the environment and environmental challenges in developing countries. Students taking graduate version complete additional assignments.</td>
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<td>C. Balboni</td>
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<tr>
<td>14.43[J]</td>
<td>Economics of Energy, Innovation, and Sustainability</td>
<td>Same subject as 15.0201[J]</td>
<td>Prereq: 14.01 or 15.0111</td>
<td>3-0-9</td>
<td>HASS-S</td>
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<td>Acad Year 2021-2022: Not offered</td>
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<td>Acad Year 2022-2023: U (Fall)</td>
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<td>See description under subject 15.0201[J].</td>
<td>Credit cannot also be received for 15.020</td>
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<tr>
<td></td>
<td>J. Li</td>
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<td>U (Spring)</td>
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<td>Credit cannot also be received for 14.44[J], 15.038[J]</td>
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<td>Analyzes business and public policy issues in energy markets and in the environmental markets to which they are closely tied. Examines the economic determinants of industry structure and evolution of competition among firms in these industries. Investigates successful and unsuccessful strategies for entering new markets and competing in existing markets. Industries studied include oil, natural gas, coal, electricity, and transportation. Topics include climate change and environmental policy, the role of speculation in energy markets, the political economy of energy policies, and market power and antitrust. Two team-based simulation games, representing the world oil market and a deregulated electricity market, act to cement the concepts covered in lecture. Students taking graduate version complete additional assignments. Limited to 60.</td>
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<td>C. Knittel</td>
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<td>G (Spring)</td>
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<td>D. Thesmar, A. Schoar</td>
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<td>14.441[J]</td>
<td>Corporate Finance</td>
<td>Same subject as 15.471[J]</td>
<td>Prereq: None</td>
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<td>A. Schoar, D. Thesmar</td>
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<td>J. Parker</td>
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<td>Credit cannot also be received for 14.44[J], 15.037[J]</td>
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<td></td>
<td>Theoretical and empirical perspectives on individual and industrial demand for energy, energy supply, energy markets, and public policies affecting energy markets. Discusses aspects of the oil, natural gas, electricity, and nuclear power sectors. Examines energy tax, price regulation, deregulation, energy efficiency and policies for controlling pollution and CO₂ emissions. Students taking the graduate version complete additional assignments. Limited to 60.</td>
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<td>C. Knittel</td>
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Economics (Course 14) | 15

ECONOMICS (COURSE 14)
14.448[J] Current Topics in Finance
Same subject as 15.474[J]
Prereq: None
G (Spring)
3-0-9 units
Can be repeated for credit.

Consult K. Nixon

Same subject as 15.475[J]
Prereq: Permission of instructor
G (Fall, IAP, Spring, Summer)
3-0-3 units
Can be repeated for credit.

See description under subject 15.475[J]. Restricted to doctoral students.
A. Verdelhan

14.451 Dynamic Optimization Methods with Applications
Prereq: 14.06 and permission of instructor
G (Fall; first half of term)
3-0-3 units

Provides an introduction to dynamic optimization methods, including discrete-time dynamic programming in non-stochastic and stochastic environments, and continuous time methods including the Pontryagin maximum principle. Applications may include the Ramsey model, irreversible investment models, and consumption choices under uncertainty. Enrollment limited.
C. Wolf

14.452 Economic Growth
Prereq: 14.451 and permission of instructor
G (Fall; second half of term)
3-0-3 units

Introduces the sources and modeling of economic growth and income differences across nations. Topics include an introduction to dynamic general equilibrium theory, the neoclassical growth model, overlapping generations, determinants of technological progress, endogenous growth models, measurement of technological progress, the role of human capital in economic growth, and growth in a global economy. Enrollment limited.
D. Acemoglu

14.453 Economic Fluctuations
Prereq: 14.452 and permission of instructor
G (Spring; first half of term)
3-0-3 units

Investigation of why aggregate economic activity fluctuates, and the role of policy in affecting fluctuations. Topics include the link between monetary policy and output, the economic cost of aggregate fluctuations, the costs and benefits of price stability, and the role of central banks. Introduction to real business cycle and new Keynesian models. Enrollment limited.
I. Werning

14.454 Economic Crises
Prereq: 14.453 and permission of instructor
G (Spring; second half of term)
3-0-3 units

Provides an overview of models of the business cycle caused by financial markets' frictions and shocks. Topics include credit crunch, collateral shocks, bank runs, contagion, speculative bubbles, credit booms, leverage, safe asset shortages, capital flows and sudden stops. Enrollment limited.
R. Caballero

14.461 Advanced Macroeconomics I
Prereq: 14.122 and 14.452
G (Fall)
5-0-7 units

Advanced subject in macroeconomics that seeks to bring students to the research frontier. Topics vary from year to year, covering a wide spectrum of classical and recent research. Topics may include business cycles, optimal monetary and tax policy, monetary economics, banking, and financial constraints on investment and incomplete markets.
M. Beraja, I. Werning

14.462 Advanced Macroeconomics II
Prereq: 14.461
G (Spring)
5-0-7 units

Topics vary from year to year. Often includes coordination failures; frictions in beliefs, such as rational inattention, higher-order uncertainty, certain forms of bounded rationality, heterogeneous beliefs, and ambiguity; implications for business cycles, asset markets, and policy; financial frictions and obstacles to trade; intermediation; liquidity; safe assets; global imbalances; financial crises; and speculation.
Consult Department Headquarters
Same subject as 11.167[J], 15.2191[J], 17.399[J]
Prereq: None
U (Spring)
Not offered regularly; consult department
3-0-9 units. HASS-S
Credit cannot also be received for 11.267[J], 15.219[J]
V. Karplus

14.471 Public Economics I
Prereq: 14.04
G (Spring)
4-0-8 units
Theory and evidence on government taxation policy. Topics include tax incidence; optimal tax theory; the effect of taxation on labor supply and savings; taxation and corporate behavior; and tax expenditure policy.
J. Poterba, I. Werning

14.472 Public Economics II
Prereq: 14.471
G (Fall)
3-0-9 units
Focuses on government expenditures and policies designed to correct market failures and/or redistribute resources. Key topics include theoretical and empirical analysis of insurance market failures, the optimal design of social insurance programs, and the design of redistributive programs.
A. Finkelstein

14.475 Environmental Economics
Prereq: None
G (Spring)
4-0-8 units
Theory and evidence on environmental externalities and regulatory, tax and other government responses to problems of market failure. Topics include cost-benefit analysis; measurement of the benefits of non-market goods; evaluation of the impacts of regulation; and international environmental issues including the economics of climate change and trade and the environment.
C. Balboni

International, Interregional, and Urban Economics

14.54 International Trade
Prereq: 14.01
U (Fall)
4-0-8 units. HASS-S
Provides an introduction to theoretical and empirical topics in international trade. Offers a brief history of globalization. Introduces the theory of comparative advantage and discusses its implications for international specialization and wage inequality. Studies the determinants and consequences of trade policy, and analyzes the consequences of immigration and foreign direct investment.
A. Costinot

14.581 International Economics I
Prereq: 14.04
G (Fall)
5-0-7 units
Covers a variety of topics, both theoretical and empirical, in international trade, international macroeconomics, and economic geography. Focuses on general equilibrium analysis in neoclassical economies. Considers why countries and regions trade, and what goods they trade; impediments to trade, and why some countries deliberately erect policy to impede; and implications of openness for growth. Also tackles normative issues, such as whether trade openness is beneficial, whether there are winners and losers from trade and, if so, how they can possibly be identified.
A. Costinot, D. Donaldson

14.582 International Economics II
Prereq: 14.06
G (Spring)
5-0-7 units
Building on topics covered in 14.581, revisits a number of core questions in international trade, international macroeconomics, and economic geography in the presence of increasing returns, imperfect competition, and other distortions. Stresses their connection to both macro and micro (firm-level) data for questions related to trade policy, inequality, industrial policy, growth, and the location of economic activities. Focuses on both theoretical models, empirical findings, and the challenging task of putting those two together.
D. Atkin, A. Costinot
Labor Economics and Industrial Relations

14.64 Labor Economics and Public Policy
Subject meets with 14.640
Prereq: 14.30 or permission of instructor
Acad Year 2021-2022: U (Fall)
Acad Year 2022-2023: Not offered
4-0-8 units. HASS-S

Provides an introduction to the labor market, how it functions, and the important role it plays in people's lives. Topics include supply and demand, minimum wages, labor market effects of social insurance and welfare programs, the collective bargaining relationship, discrimination, human capital, and unemployment. Completion of or concurrent enrollment in 14.03 or 14.04 recommended. Students taking graduate version complete additional assignments.
J. Angrist

14.640 Labor Economics and Public Policy (New)
Subject meets with 14.64
Prereq: 14.300 or permission of instructor
G (Fall)
4-0-8 units

Provides an introduction to the labor market, how it functions, and the important role it plays in people's lives. Topics include supply and demand, minimum wages, labor market effects of social insurance and welfare programs, the collective bargaining relationship, discrimination, human capital, and unemployment. Completion of or concurrent enrollment in 14.03 or 14.04 recommended. Students taking graduate version complete additional assignments.
J. Angrist

14.661 Labor Economics I
Subject meets with 14.661A
Prereq: 14.32 and (14.03 or 14.04)
G (Fall)
5-0-7 units

A systematic development of the theory of labor supply, labor demand, and human capital. Topics include wage and employment determination, turnover, search, immigration, unemployment, equalizing differences, and institutions in the labor market. Particular emphasis on the interaction between theoretical and empirical modeling. No listeners.
D. Acemoglu, J. Angrist, P. Pathak

14.661A Labor Economics I
Subject meets with 14.661
Prereq: 14.32 and (14.03 or 14.04)
G (Fall)
5-0-7 units

Covers the same material as 14.661 but in greater depth. Additional assignments required. Limited to economics PhD students who wish to declare a major field in labor economics.
D. Acemoglu, J. Angrist, P. Pathak

14.662 Labor Economics II
Subject meets with 14.662A
Prereq: 14.32 and (14.03 or 14.04)
G (Spring)
5-0-7 units

Theory and evidence on the determinants of earnings levels, inequality, intergenerational mobility, skill demands, and employment structure. Particular focus on the determinants of worker- and firm-level productivity; and the roles played by supply, demand, institutions, technology and trade in the evolving distribution of income.
D. Autor, S. Jäger

14.662A Labor Economics II
Subject meets with 14.662
Prereq: 14.32 and (14.03 or 14.04)
G (Spring)
5-0-7 units

Covers the same material as 14.662 but in greater depth. Additional assignments required. Limited to economics PhD students who wish to declare a major field in labor economics.
D. Autor, S. Jäger

Economic History

14.70[J] Medieval Economic History in Comparative Perspective
Same subject as 21H.134[J]
Prereq: None
U (Fall)
3-0-9 units. HASS-S; CI-H

See description under subject 21H.134[J].
A. McCants
14.73 The Challenge of World Poverty
Prereq: None
U (Fall)
4-0-8 units. HASS-S; CI-H

Designed for students who are interested in the challenge posed by massive and persistent world poverty. Examines extreme poverty over time to see if it is no longer a threat, why some countries grow fast and others fall further behind, if growth or foreign aid help the poor, what we can do about corruption, if markets or NGOs should be left to deal with poverty, where to intervene, and how to deal with the disease burden and improve schools.

E. Duflo, F. Schilbach

Economic Development

14.74 Foundations of Development Policy
Subject meets with 14.740
Prereq: 14.01
Acad Year 2021-2022: Not offered
Acad Year 2022-2023: U (Fall)
4-0-8 units. HASS-S

Explores the foundations of policy making in developing countries, with the goal of spelling out various policy options and quantifying the trade-offs between them. Topics include education, health, fertility, adoption of technological innovations, financial markets (credit, savings, and insurance), markets for land and labor, political factors, and international considerations (aid, trade, and multinational firms). Some basic familiarity with probability and/or statistics is useful for this class. Students taking graduate version complete additional assignments.

Consult Department Headquarters

14.740 Foundations of Development Policy
Subject meets with 14.74
Prereq: 14.01
Acad Year 2021-2022: Not offered
Acad Year 2022-2023: G (Fall)
4-0-8 units

Explores the foundations of policy making in developing countries, with the goal of spelling out various policy options and quantifying the trade-offs between them. Topics include education, health, fertility, adoption of technological innovations, financial markets (credit, savings, and insurance), markets for land and labor, political factors, and international considerations (aid, trade, and multinational firms). Some basic familiarity with probability and/or statistics is useful for this class. Students taking graduate version complete additional assignments.

Consult Department Headquarters

14.75 Political Economy and Economic Development
Subject meets with 14.750
Prereq: 14.01
U (Spring)
4-0-8 units. HASS-S

Explores the relationship between political institutions and economic development, covering key theoretical issues as well as recent empirical evidence. Topics include corruption, voting, vote buying, the media, and war. Discusses not just what we know on these topics, but how we know it, covering how to craft a good empirical study or field experiment and how to discriminate between reliable and unreliable evidence. Some basic familiarity with probability and/or statistics is useful for this class. Students taking graduate version complete additional assignments.

A. Banerjee, B. OIken

14.750 Political Economy and Economic Development
Subject meets with 14.75
Prereq: 14.01
G (Spring)
4-0-8 units

Explores the relationship between political institutions and economic development, covering key theoretical issues as well as recent empirical evidence. Topics include corruption, voting, vote buying, the media, and war. Discusses not just what we know on these topics, but how we know it, covering how to craft a good empirical study or field experiment and how to discriminate between reliable and unreliable evidence. Some basic familiarity with probability and/or statistics is useful for this class. Students taking graduate version complete additional assignments.

A. Banerjee, B. OIken

14.76 Firms, Markets, Trade and Growth
Subject meets with 14.760
Prereq: 14.01 and (14.30 or permission of instructor)
U (Spring)
4-0-8 units. HASS-S

Examines how industrial development and international trade have brought about rapid growth and large-scale reductions in poverty for some developing countries, while globalization has simply increased inequality and brought little growth for others. Also considers why, in yet other developing countries, firms remain small-scale and have not integrated with global supply chains. Draws on both theoretical models and empirical evidence to better understand the reasons for these very different experiences and implications for policy. Students taking graduate version complete additional assignments.

D. Atkin, D. Donaldson

14.773 The Challenge of World Poverty
Prereq: None
U (Fall)
4-0-8 units. HASS-S; CI-H

Designed for students who are interested in the challenge posed by massive and persistent world poverty. Examines extreme poverty over time to see if it is no longer a threat, why some countries grow fast and others fall further behind, if growth or foreign aid help the poor, what we can do about corruption, if markets or NGOs should be left to deal with poverty, where to intervene, and how to deal with the disease burden and improve schools.

E. Duflo, F. Schilbach
14.760 Firms, Markets, Trade and Growth
Subject meets with 14.76
Prereq: 14.01 and (14.30 or permission of instructor)
G (Spring)
4-0-8 units

Examines how industrial development and international trade have brought about rapid growth and large-scale reductions in poverty for some developing countries, while globalization has simply increased inequality and brought little growth for others. Also considers why, in yet other developing countries, firms remain small-scale and have not integrated with global supply chains. Draws on both theoretical models and empirical evidence to better understand the reasons for these very different experiences and implications for policy. Students taking graduate version complete additional assignments.

D. Atkin, D. Donaldson

14.770 Introduction to Collective Choice and Political Economy
Prereq: None
G (Fall)
4-0-8 units

Broad introduction to political economy. Covers topics from social choice theory to political agency models, including theories of voter turnout and comparison of political institutions.

D. Acemoglu, B. Olken

14.771 Development Economics: Microeconomic Issues
Prereq: 14.121 and 14.122
G (Fall)
5-0-7 units

A rigorous introduction to core micro-economic issues in economic development, focusing on both key theoretical contributions and empirical applications to understand both why some countries are poor and on how markets function differently in poor economies. Topics include human capital (education and health); labor markets; credit markets; land markets; firms; and the role of the public sector.

E. Duflo, B. Olken

14.772 Development Economics: Macroeconomics
Prereq: 14.121 and 14.451
G (Spring)
5-0-7 units

Dynamic models of growth and development emphasizing migration, modernization, risk and finance, and technological change; static and dynamic models of political economy; the dynamics of income distribution and institutional change; SME and larger firm structure in developing countries; development, transparency, and information systems; and functioning of financial markets and institutions in emerging markets, their design and regulation.

D. Atkins, A. Banerjee, R. Townsend

14.773 Political Economy: Institutions and Development
Prereq: 14.121 and 14.451
Acad Year 2021-2022: Not offered
Acad Year 2022-2023: G (Spring)
5-0-7 units

Economists and policymakers increasingly realize the importance of political institutions in shaping economic performance, especially in the context of understanding economic development. Work on the determinants of economic policies and institutions is in its infancy, but is growing rapidly. Subject provides an introduction to this area. Topics covered: the economic role of institutions; the effects of social conflict and class conflict on economic development; political economic determinants of macro policies; political development; theories of income distribution and distributional conflict; the efficiency effects of distributional conflict; the causes and consequences of corruption; the role of colonial history; and others. Both theoretical and empirical approaches discussed.

Subject can be taken either as part of the Development Economics or the Positive Political Economy fields.

D. Acemoglu, A. Banerjee

14.781[J] Political Economy I: Theories of the State and the Economy
Same subject as 15.678[J], 17.100[J]
Prereq: Permission of instructor
G (Fall)
3-0-9 units

See description under subject 17.100[J].

Consult B. Schneider

14.THG Graduate Thesis
Prereq: Permission of instructor
G (Fall, IAP, Spring, Summer)
Units arranged
Can be repeated for credit.

Program of research and writing of thesis; to be arranged by the student with supervising committee.

Staff

14.THU Thesis
Prereq: 14.33
U (Fall, IAP, Spring, Summer)
Units arranged
Can be repeated for credit.

Program of research and writing of thesis.

Staff
14.UR Undergraduate Research
Prereq: 14.02
U (Fall, IAP, Spring, Summer)
Units arranged [P/D/F]
Can be repeated for credit.

Participation in research with an individual faculty member or research group, independent research or study under the guidance of a faculty member. Admission by arrangement with individual faculty member.
Consult D. Donaldson

14.URG Undergraduate Research
Prereq: 14.02
U (Fall, IAP, Spring, Summer)
Units arranged
Can be repeated for credit.

Participation in research with an individual faculty member or research group, independent research or study under the guidance of a faculty member. Admission by arrangement with individual faculty member.
Consult D. Donaldson