Economics

The Economics PhD program at UC Berkeley is designed for students interested in pursuing advanced study and conducting original research in economics. The PhD degree is awarded in recognition of the recipient's qualifications as a general economist and of the ability to make scholarly contributions in fields of specialization. New admissions to the graduate program are restricted to students pursuing the PhD degree. There is no external, terminal program for the MA degree.

Admission to the University

Applying for Graduate Admission

Thank you for considering UC Berkeley for graduate study! UC Berkeley offers more than 120 graduate programs representing the breadth and depth of interdisciplinary scholarship. A complete list of graduate academic departments, degrees offered, and application deadlines can be found on the Graduate Division website (http://grad.berkeley.edu/programs/list/).

Prospective students must submit an online application to be considered for admission, in addition to any supplemental materials specific to the program for which they are applying. The online application can be found on the Graduate Division website (http://grad.berkeley.edu/admissions/).

Admission Requirements

The minimum graduate admission requirements are:

1. A bachelor’s degree or recognized equivalent from an accredited institution;
2. A satisfactory scholastic average, usually a minimum grade-point average (GPA) of 3.0 (B) on a 4.0 scale; and
3. Enough undergraduate training to do graduate work in your chosen field.

For a list of requirements to complete your graduate application, please see the Graduate Division’s Admissions Requirements page (https://grad.berkeley.edu/admissions/steps-to-apply/requirements/). It is also important to check with the program or department of interest, as they may have additional requirements specific to their program of study and degree. Department contact information can be found here (http://guide.berkeley.edu/graduate/degree-programs/).

Where to apply?

Visit the Berkeley Graduate Division application page (http://grad.berkeley.edu/admissions/apply/).

Admission to the Program

A degree equivalent to a US bachelor's is required for admission to the program. An undergraduate degree in economics is not required for admission to the PhD program, provided that applicants have achieved an adequate background in economics and mathematics at the undergraduate level.

- Economics: All applicants are expected to have completed intermediate math-based economic theory courses. Further education in economics and economic theory is helpful, but not required.
- Math: Applicants must have knowledge of multivariate calculus, basic matrix algebra, and differential equations; completion of a two-year math sequence, which emphasizes proofs and derivations. Some knowledge of statistics and elementary probability is highly desirable, as is additional coursework in algebra and real analysis.

The GRE is also required. Please visit our website (https://www.econ.berkeley.edu/grad/admissions/instructions/) for all department-specific requirements.

Normative Time Requirements

In advancing to the PhD degree, students pass through two major stages:

s1) Preparation for candidacy typically takes three years. During the first two semesters, students take courses to achieve competence in econometric methods, methods of economic history, and fundamentals of microeconomic and macroeconomic theory. During the next two years, students prepare for examination in two fields of specialization of their choosing, prepare a dissertation prospectus, and take an oral examination. When these steps are completed, students are advanced to candidacy.

2) Completion of a dissertation after advancing to candidacy typically takes three to four years. The dissertation must be based on original research and represent a significant contribution to the body of economic knowledge.

The entire process takes approximately six to seven years, although some students are able to complete the program in less time.

Time to Advancement

Curriculum

During the first two semesters of graduate study, students must take a set of eight core courses to satisfy requirements in mathematics, economic history, economic theory, and econometrics. Syllabi for current and recent economics courses, including the core courses described below, can be found on the (https://www.econ.berkeley.edu/courses/homepages/)Economics Course Home Page Registry.

Courses Required

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<th>Course</th>
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<td>ECON 201A</td>
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<td>ECON 210A</td>
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<td>ECON 240A</td>
<td>Econometrics</td>
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<tr>
<td>&amp; ECON 240B</td>
<td>Econometrics</td>
<td>9</td>
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<tr>
<td>ECON Electives (2 semesters per specialized study list)</td>
<td>24</td>
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</tbody>
</table>

This serves as preparation for 2 field exams. Field courses are subject to change every academic year. The Graduate Office shares a list of field courses every year (with students starting their second year). Courses are not made public.

ECON Elective Dept Seminars (12 units/one semester) | 12 |
| ECON 208    | Microeconomic Theory Seminar         | 3     |
| ECON 211    | Seminar in Economic History          | 3     |
| ECON 217    | Risk Seminar                         | 3     |
| ECON 218    | Seminar in Psychology and Economics  | 3     |
| ECON 221    | Seminar in Industrial Organization: Regulation and Public Enterprise | 3 |
Preliminary Exams—Field Examination

All graduate students must take written qualifying examinations in two fields of specialization. Students prepare for these examinations in the second year by completing graduate courses offered in their chosen fields.

Fields Available in the Economics Department

- Advanced Economic Theory
- Development Economics
- Econometrics
- Economic History
- Financial Economics
- Industrial Organization
- International Economics
- Labor Economics
- Macroeconomics
- Political Economics
- Psychology and Economics
- Public Finance

Alternative fields offered by another department or designed by the student may be substituted for one of the fields listed above if approved by the graduate committee. Alternative fields may include Economic Demography, Education and Economics, Health Economics, Law and Economics, Resource Economics, Urban and Regional Economics, or City and Regional Planning.

Prospectus

Students must complete at least one semester of any department seminars (https://www.econ.berkeley.edu/events/seminars/) prior to taking their oral examination. This is typically done in the third year of study.

Dissertation Prospectus and Oral Examination (QUALIFYING EXAMINATION)

Students are encouraged to begin discussing possible dissertation topics with appropriate faculty members at an early stage. After completing the written field examinations, students choose a faculty member to serve as an advisor on developing a dissertation topic involving significant and original research, and to supervise the writing of a prospectus. The prospectus describes the research to be conducted, the techniques to be used, and initial findings. Students who cannot find an adviser on their own will be matched with a preliminary adviser at the beginning of the third year of study.

Qualifying Examination

When the prospectus is approved by the faculty adviser, the qualifying examination is scheduled. The examining committee consists of four faculty members who conduct an oral examination based on the student’s areas of specialization and on the dissertation prospectus. A primary function of the oral examination is to aid the student in developing a dissertation and to determine whether the student is sufficiently prepared to complete original research successfully.

Time in Candidacy

Advancement

Upon successful completion of the oral examination and selection of a dissertation committee, the student is advanced to candidacy. Following advancement to candidacy, students pursue research necessary for the completion of their dissertation.

Fourth Year Paper

In the fourth year students will work with their advisor to write a complete draft of a research paper. The topic can be on what was done for the orals examination, or something new. Students may be excused from this requirement under exceptional circumstances (e.g., lengthy field work), but they would need to submit a letter to the Graduate Chair from the student’s advisor requesting an exception.

Dissertation

Students are encouraged to select dissertation topics that can be completed in one to two years.

Upon completion of the dissertation and its acceptance by the dissertation committee, the student is awarded the PhD degree.

Professional Placement

Students who have received, or will soon receive, the PhD in Economics are assisted by the department in finding suitable career positions. The department learns of available openings for qualified economists through an exchange of information with universities, colleges, government agencies, and research institutes.

The department staff coordinates and facilitates placement activities, and a faculty member oversees and advises placement. Serious effort is made to help students find positions in which their capacities will be both used and rewarded. The department has been highly successful in placing students, which is a reflection on the quality of its students and their training, and the importance the department places on this activity.

Past placement outcomes can be found on the department’s website (https://www.econ.berkeley.edu/grad/program/placement-outcomes/).

Economics
ECON 202A Macroeconomics 4 Units
Terms offered: Fall 2023, Fall 2022, Fall 2021
Basic preparation for the Ph.D. program including aggregation theory, national accounting and index problems, survey of major short-term models, implications of various expectations hypotheses, wage price determination, the role of money and financial assets, theories of consumption and investment, disequilibrium theory, dynamic systems, and international considerations.
Macroeconomics: Read More [+]
Rules & Requirements
Prerequisites: 100A-100B or 101A-101B or equivalent. Mathematics 50A or equivalent
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of discussion per week
Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Macroeconomics: Read Less [-]

ECON 202B Macroeconomics 4 Units
Terms offered: Spring 2024, Spring 2023, Spring 2022
Basic preparation for the Ph.D. program including aggregation theory, national accounting and index problems, survey of major short-term models, implications of various expectations hypotheses, wage price determination, the role of money and financial assets, theories of consumption and investment, disequilibrium theory, dynamic systems, and international considerations.
Macroeconomics: Read More [+]
Rules & Requirements
Prerequisites: 100A-100B or 101A-101B or equivalent. Mathematics 50A or equivalent
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of discussion per week
Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Macroeconomics: Read Less [-]
ECON 204 Mathematical Tools for Economics
3 Units
Terms offered: Summer 2024 3 Week Session, Fall 2023, Summer 2023 3 Week Session
The course provides a rigorous abstract treatment of the elements of real analysis and linear algebra central to current research in economics. The course develops in the students the ability to read mathematical proofs and to compose simple proofs on their own.
Mathematical Tools for Economics: Read More [+]

Rules & Requirements
Prerequisites: Mathematics 53 and 54 or equivalent and consent of instructor

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture and 1 hour of discussion per week
Summer: 3 weeks - 10 hours of lecture and 5 hours of discussion per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.

Mathematical Tools for Economics: Read Less [-]

ECON 206 Mechanism Design and Agency Theory
3 Units
Terms offered: Spring 2024, Spring 2023, Spring 2019
This course will study the optimal design of mechanisms in the presence of incomplete information and imperfect observability. The course will begin with the "classic" principal-agent problem and will then develop its applications to the "implicit contracts" theory of agency and to the choice of government policies for regulated industries. The second half of the course will treat the design of auctions, regulation with costly or imperfect monitoring, mechanism design with limited contracts.
Mechanism Design and Agency Theory: Read More [+]

Rules & Requirements
Prerequisites: 201B and 209A or consent of instructor

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Formerly known as: 209B
Mechanism Design and Agency Theory: Read Less [-]

ECON 207A Mathematical Economics
3 Units
Terms offered: Fall 2023, Fall 2022, Spring 2022
Mathematical analysis of economic theory. The problems treated involve as wide a range of mathematical techniques and of economic topics as possible, including theories of preference, utility, demand, personal probability, games and general equilibrium. Also listed as IDS 213A-213B and Math 213A-213B.
Mathematical Economics: Read More [+]

Rules & Requirements
Prerequisites: Math 104 and 110 and Statistics 101

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.

Mathematical Economics: Read Less [-]

ECON 207B Mathematical Economics
3 Units
Terms offered: Spring 2020, Spring 2015, Spring 2011
Mathematical analysis of economic theory. The problems treated involve as wide a range of mathematical techniques and of economic topics as possible, including theories of preference, utility, demand, personal probability, games and general equilibrium. Also listed as IDS 213A-213B and Math 213A-213B.
Mathematical Economics: Read More [+]

Rules & Requirements
Prerequisites: Math 104 and 110 and Statistics 101

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.

Mathematical Economics: Read Less [-]
**ECON 208 Microeconomic Theory Seminar 3 Units**
Terms offered: Spring 2024, Fall 2023, Spring 2023
Microeconomic Theory Seminar: Read More [+]

**Rules & Requirements**

**Prerequisites:** Consent of instructor

**Repeat rules:** Course may be repeated for credit without restriction.

**Hours & Format**

Fall and/or spring: 15 weeks - 2 hours of seminar per week

**Additional Details**

Subject/Course Level: Economics/Graduate
Grading: Letter grade.

Microeconomic Theory Seminar: Read Less [-]

**ECON 209A Theory and Application of Non-Cooperative Games 3 Units**
Terms offered: Fall 2013, Fall 2012, Fall 2011
This course will study both pure game theory and its application to such problems as oligopoly pricing, non-cooperative bargaining, predatory pricing, and optimal auctions. The focus will be on game theory as a modelling process as opposed to a body of known results.

Theory and Application of Non-Cooperative Games: Read More [+]

**Rules & Requirements**

**Prerequisites:** Consent of instructor

**Hours & Format**

Fall and/or spring: 15 weeks - 2 hours of lecture per week

**Additional Details**

Subject/Course Level: Economics/Graduate
Grading: Letter grade.

Theory and Application of Non-Cooperative Games: Read Less [-]

**ECON 209B Theory and Application of Non-Cooperative Games: II 3 Units**
Terms offered: Spring 2016, Spring 2015, Spring 2014
The course will cover basic topics not covered in 209A; will provide a more thorough treatment of topics covered in 209A; will cover a selection of advanced topics.

Theory and Application of Non-Cooperative Games: II: Read More [+]

**Rules & Requirements**

**Prerequisites:** 209A or consent of instructor

**Hours & Format**

Fall and/or spring: 15 weeks - 2 hours of lecture per week

**Additional Details**

Subject/Course Level: Economics/Graduate
Grading: Letter grade.

Theory and Application of Non-Cooperative Games: II: Read Less [-]

**ECON 210A Introduction to Economic History 3 Units**
Terms offered: Spring 2024, Spring 2023, Spring 2022
Survey of some central themes in world economic history. Required of all Ph.D. candidates in economics.

Introduction to Economic History: Read More [+]

**Hours & Format**

Fall and/or spring: 15 weeks - 2 hours of lecture per week

**Additional Details**

Subject/Course Level: Economics/Graduate
Grading: Letter grade.

Introduction to Economic History: Read Less [-]

**ECON 210B Topics in European Economic History 3 Units**
Terms offered: Spring 2023, Spring 2022, Spring 2021
A survey of some central themes in European economic history.

Topics in European Economic History: Read More [+]

**Rules & Requirements**

**Prerequisites:** 210A

**Hours & Format**

Fall and/or spring: 15 weeks - 2 hours of lecture per week

**Additional Details**

Subject/Course Level: Economics/Graduate
Grading: Letter grade.

Topics in European Economic History: Read Less [-]
ECON 210C Topics in American Economic History 3 Units
Terms offered: Fall 2018, Fall 2016, Fall 2013
A survey of some central themes in American economic history.
Topics in American Economic History: Read More [+]

Rules & Requirements
Prerequisites: 210A
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week
Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Topics in American Economic History: Read Less [-]

ECON 211 Seminar in Economic History 3 Units
Terms offered: Spring 2024, Fall 2023, Spring 2023
Seminar in Economic History: Read More [+]

Rules & Requirements
Prerequisites: Consent of instructor
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week
Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Seminar in Economic History: Read Less [-]

ECON 215A Political Economics 3 Units
Terms offered: Fall 2017, Fall 2016, Fall 2015
Political Economics: Read More [+]

Rules & Requirements
Prerequisites: 215A is a prerequisite to 215B
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week
Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Instructor: Roland
Political Economics: Read Less [-]

ECON 215B Political Economics 3 Units
Terms offered: Spring 2024, Spring 2023, Spring 2022
Political Economics: Read More [+]

Rules & Requirements
Prerequisites: 215A is a prerequisite to 215B
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week
Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Instructor: Roland
Political Economics: Read Less [-]
ECON C215A Political Economics 3 Units
Terms offered: Fall 2023, Fall 2022, Fall 2021, Fall 2010, Fall 2009
Political Economics: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Also listed as: POL SCI C237A
Political Economics: Read Less [-]

ECON C215B Political Economics 3 Units
Terms offered: Prior to 2007
Political Economics: Read More [+]

Rules & Requirements
Prerequisites: ECON C215A is a prerequisite to ECON C215B, and POL SCI C237A is a prerequisite to POL SCI C237B

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Also listed as: POL SCI C237B
Political Economics: Read Less [-]

ECON 217 Risk Seminar 3 Units
Terms offered: Spring 2024, Fall 2023, Spring 2023
This interdisciplinary seminar features seminar participants and guest speakers from academic institutions and financial services firms, presenting work on the analysis and management of risk in financial markets. Economics, statistics, finance, operations research, and other disciplines will be represented.
Risk Seminar: Read More [+]

Rules & Requirements
Prerequisites: Consent of instructor. Graduate standing
Credit Restrictions: Students will receive no credit for Economics 217 after completing Statistics 278B.
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Offered for satisfactory/unsatisfactory grade only.
Instructors: Goldberg, Anderson
Risk Seminar: Read Less [-]

ECON 218 Seminar in Psychology and Economics 3 Units
Terms offered: Spring 2024, Fall 2023, Spring 2023
A graduate seminar in the field of behavioral economics.
Seminar in Psychology and Economics: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Instructors: Della Vigna, Koszegi, Rabin
Seminar in Psychology and Economics: Read Less [-]
ECON 219A Foundations of Psychology and Economics 3 Units
Terms offered: Fall 2023, Fall 2022, Fall 2021
This course presents psychological and experimental economics research demonstrating departures from perfect rationality, self-interest, and other classical assumptions of economics and explores ways that these departures can be mathematically modeled and incorporated into mainstream positive and normative economics. The course will focus on the behavioral evidence itself, especially on specific formal assumptions that capture the findings in a way that can be used by economists. Economic applications will be used for illustrative purposes, but the course will emphasize formal theory.
Foundations of Psychology and Economics: Read More [+]
Rules & Requirements
Prerequisites: 201A-201B or consent of instructor
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week
Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Foundations of Psychology and Economics: Read Less [-]

ECON 219B Applications of Psychology and Economics 3 Units
Terms offered: Spring 2024, Spring 2023, Spring 2022
This course will build off of the material presented in 219A. It will expand on the psychological and experimental economic research presented there, but will emphasize a range of economic applications and especially empirical research.
Applications of Psychology and Economics: Read More [+]
Rules & Requirements
Prerequisites: 219A, 240A-240B or consent of instructor
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week
Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Applications of Psychology and Economics: Read Less [-]

ECON 220A Industrial Organization 3 Units
Terms offered: Fall 2023, Fall 2022, Spring 2022
Market structure, conduct and performance in the unregulated sector of the American economy. Public policies related to the promotion or restriction of competition.
Industrial Organization: Read More [+]
Rules & Requirements
Prerequisites: 201A
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week
Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Industrial Organization: Read Less [-]

ECON 220B Industrial Organization 3 Units
Terms offered: Spring 2024, Spring 2023, Fall 2021
Continuation of 220A. The characteristics of regulated industries and the consequences of regulation for economic performance.
Industrial Organization: Read More [+]
Rules & Requirements
Prerequisites: 220A
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week
Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Industrial Organization: Read Less [-]

ECON 220C Special Topics in Industrial Organization 3 Units
Terms offered: Spring 2024, Spring 2023, Spring 2020
See course announcement for current topics.
Special Topics in Industrial Organization: Read More [+]
Rules & Requirements
Prerequisites: 220A
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week
Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Special Topics in Industrial Organization: Read Less [-]
ECON 221 Seminar in Industrial Organization: Regulation and Public Enterprise 3 Units
Terms offered: Spring 2024, Fall 2023, Spring 2023
Seminar in Industrial Organization: Regulation and Public Enterprise: Read More [+]
Rules & Requirements
Prerequisites: Consent of instructor
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week
Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.

ECON 224 Economics of Institutions 3 Units
Terms offered: Spring 2016, Spring 2015, Fall 2012
This course develops the proposition that institutions have pervasive ramifications for understanding economic organization. A comparative institutional approach is employed whereby the transaction is made the basic unit of analysis and alternative modes of organization are assessed with respect to their comparative contracting properties.
Economics of Institutions: Read More [+]

ECON C225 Workshop in Institutional Analysis 2 Units
Terms offered: Spring 2024, Fall 2023, Spring 2023, Fall 2015, Fall 2014, Fall 2013
This seminar features current research of faculty, from UC Berkeley and elsewhere, and of advanced doctoral students who are investigating the efficacy of economic and non-economic forms of organization. An interdisciplinary perspective—combining aspects of law, economics, and organization—is maintained. Markets, hierarchies, hybrids, bureaus, and the supporting institutions of law and politics all come under scrutiny. The aspiration is to progressively build toward a new science of organization.
Workshop in Institutional Analysis: Read More [+]
Rules & Requirements
Prerequisites: Economics 100 or 101; Business Administration 110 or equivalent; or consent of instructor
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week
Additional Details
Subject/Course Level: Economics/Graduate
Grading: Offered for satisfactory/unsatisfactory grade only.
Also listed as: PHDBA C270
Workshop in Institutional Analysis: Read Less [-]
ECON 230A Public Economics 3 Units
Terms offered: Fall 2023, Fall 2022, Fall 2021
The economic and policy analysis of government expenditures, taxes, and intergovernmental fiscal relations. 230A is not a prerequisite for 230B.
Public Economics: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.

Public Economics: Read Less [-]

ECON 230B Public Economics 3 Units
Terms offered: Spring 2024, Spring 2023, Spring 2022
Government intervention changes opportunities and incentives for firms, families, individuals, service providers, and state and local government. This course considers the incentive effects of government expenditure programs. The primary emphasis will be in the examination of the effect of social expenditure programs on individuals and families. Most of the papers will be empirical. The course will not contain an explicit section on methodology and econometric techniques; instead, relevant econometric techniques (e.g., discrete choice, duration analysis) will be discussed in the context of the empirical literature.
Public Economics: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.

Public Economics: Read Less [-]

ECON 230C Public Sector Microeconomics 3 Units
Terms offered: Spring 2009, Spring 1999
The economic and policy analysis of government expenditures, taxes, and intergovernmental fiscal relations.
Public Sector Microeconomics: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.

Public Sector Microeconomics: Read Less [-]

ECON 231 Seminar in Public Sector Economics 3 Units
Terms offered: Spring 2024, Fall 2023, Spring 2023
Seminar in Public Sector Economics: Read More [+]

Rules & Requirements
Prerequisites: Consent of instructor
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.

Seminar in Public Sector Economics: Read Less [-]

ECON 234A Macroeconomic Finance 3 Units
Terms offered: Spring 2012, Spring 2011, Fall 2009
Introduction to macroeconomic finance. Course covers static portfolio choice, capital asset pricing model (CAPM), consumption based models, dynamic equilibrium asset pricing theories, and current issues in behavioral finance. Strong emphasis on household finance and risk-sharing. Course is both theoretical and empirical.
Public Economics: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.

Formerly known as: 236D

Macroeconomic Finance: Read Less [-]
ECON 234C Financial Decision-Making in Firms 3 Units
Terms offered: Spring 2017, Spring 2015, Spring 2014
This course provides a theoretical and empirical treatment of the core topics in corporate finance including internal corporate investment; external corporate investment (mergers and acquisitions); capital structure and financial contracting; bankruptcy; corporate governance.
Financial Decision-Making in Firms: Read More

Rules & Requirements
Prerequisites: 240A-240B or equivalent

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.

Financial Decision-Making in Firms: Read Less

ECON C234C Empirical Corporate Finance 3 Units
Terms offered: Spring 2024, Spring 2023, Spring 2022, Fall 2020, Spring 2020
This course provides a theoretical and empirical treatment of the core topics in corporate finance including internal corporate investment; external corporate investment (mergers and acquisitions); capital structure and financial contracting; bankruptcy; corporate governance.
Empirical Corporate Finance: Read More

Rules & Requirements
Prerequisites: ECON 240A-240B or equivalent
Credit Restrictions: Students who have passed ECON 234C are not eligible to also receive credit for passing ECON C234C.

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Instructor: Malmendier
Also listed as: PHDBA 239FD
Empirical Corporate Finance: Read Less

ECON 235 Financial Economics Seminar 3 Units
Terms offered: Spring 2024, Fall 2023, Spring 2023
This course presents speakers who work on the boundary of economics and finance, on topics including asset pricing, behavioral finance, and corporate finance.

Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.

ECON 236A Advanced Macroeconomics I 3 Units
Terms offered: Fall 2023, Fall 2022, Fall 2021
Macroeconomic models; theory and practice of aggregate economics; rational expectations models; finance theory integrated with macro.

Rules & Requirements
Prerequisites: For 236A: 201A-201B and 202A-202B. For 236B: 236A

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Instructor: Malmendier
Also listed as: PHDBA 239FD
Advanced Macroeconomics I: Read Less

ECON 236B Advanced Macroeconomics II 3 Units
Terms offered: Spring 2024, Spring 2023, Spring 2022
Macroeconomic models; theory and practice of aggregate economics; rational expectations models; finance theory integrated with macro.

Rules & Requirements
Prerequisites: For 236A: 201A-201B and 202A-202B. For 236B: 236A

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Advanced Macroeconomics II: Read Less
ECON 236D Behavioral Macroeconomics 3 Units
Terms offered: Spring 2021, Fall 2006
This course focuses on incorporating insights from behavioral economics into macroeconomic analysis.
Behavioral Macroeconomics: Read More [+]

Rules & Requirements
Prerequisites: Economics 202A or their equivalents. Economics 202B, Economics 219A/B will be useful, but not required. Admission will be automatic for regular Berkeley PhD students. Undergraduate and master students who have an interest in economics graduate studies are also encouraged to consider taking the course, but with instructor's consent.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Behavioral Macroeconomics: Read Less [-]

ECON 237 Seminar in Advanced Macroeconomics and Money 3 Units
Terms offered: Spring 2024, Fall 2023, Spring 2023
Seminar in Advanced Macroeconomics and Money: Read More [+]

Rules & Requirements
Prerequisites: Consent of instructor
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Seminar in Advanced Macroeconomics and Money: Read Less [-]

ECON 240A Econometrics 5 Units
Terms offered: Fall 2023, Fall 2022, Fall 2021
Basic preparation for the Ph.D. program including probability and statistical theory and the classical linear regression model.
Econometrics: Read More [+]

Rules & Requirements
Prerequisites: 100A or 101A or equivalent; 100B or 101B or equivalent; Mathematics 53 and 54, or equivalent; Statistics 131A or equivalent

Hours & Format
Fall and/or spring: 15 weeks - 4 hours of lecture and 2 hours of discussion per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Formerly known as: 240
Econometrics: Read Less [-]

ECON 240B Econometrics 4 Units
Terms offered: Spring 2024, Spring 2023, Spring 2022
Basic preparation for the Ph.D. program including generalized least squares; instrumental variables estimation; generalized method of moments; time series analysis; and nonlinear models.
Econometrics: Read More [+]

Rules & Requirements
Prerequisites: 240A or equivalent

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 2 hours of discussion per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Econometrics: Read Less [-]
ECON 241A Econometrics 2 Units
Terms offered: Spring 2024, Spring 2023, Spring 2022
Intended for students specializing in econometrics and others with strong mathematical backgrounds. Linear and nonlinear statistical models and their applications in economics. Special problems in analyzing data from non-controlled experiments.
Econometrics: Read More [+]
Rules & Requirements
Prerequisites: Econ 240A,B; linear algebra; multivariable calculus; basic probability and inference theory
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week
Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Econometrics: Read Less [-]

ECON 241B Econometrics 2 Units
Terms offered: Fall 2023, Fall 2022, Spring 2022
This course will cover fundamentals of time series econometrics. It is intended both for students specializing in econometric theory and for students interested in applying time series methods to economic data.
Econometrics: Read More [+]
Rules & Requirements
Prerequisites: Econ 240A-B, or equivalent
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week
Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Econometrics: Read Less [-]

ECON 241C Econometrics 2 Units
Terms offered: Fall 2023, Fall 2022, Spring 2022
The course covers topics in classic nonparametric and modern approaches to econometrics. Topics include (among others) decision theory, high-dimensional models, causal inference, and Bayesian methods.
Econometrics: Read More [+]
Rules & Requirements
Prerequisites: Econ 240A-B; linear algebra; multivariable calculus, basic probability and inference theory
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week
Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Econometrics: Read Less [-]

ECON 242 Seminar in Econometrics 3 Units
Terms offered: Spring 2024, Fall 2023, Spring 2023
Seminar in Econometrics: Read More [+]
Rules & Requirements
Prerequisites: 240A-240B
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week
Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Seminar in Econometrics: Read Less [-]

ECON 244 Applied Econometrics 3 Units
Terms offered: Spring 2023, Fall 2021, Spring 2021
Methods of applied econometrics, with emphasis on alternative modelling strategies and problems met in practice. Intended for doctoral students conducting empirical research.
Applied Econometrics: Read More [+]
Rules & Requirements
Prerequisites: 240A-240B
Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture per week
Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Applied Econometrics: Read Less [-]
**ECON 250A Labor Economics 3 Units**
Terms offered: Spring 2024, Spring 2023, Fall 2021
Analysis of labor market behavior.
Labor Economics: Read More [+]

**Rules & Requirements**
Prerequisites: 250A is prerequisite to 250B. Consent of instructor

**Hours & Format**
Fall and/or spring: 15 weeks - 3 hours of lecture per week

**Additional Details**
Subject/Course Level: Economics/Graduate
Grading: Letter grade.

**ECON 250B Labor Economics 3 Units**
Terms offered: Fall 2023, Fall 2022, Spring 2022
Analysis of labor market behavior.
Labor Economics: Read More [+]

**Rules & Requirements**
Prerequisites: 250A is prerequisite to 250B. Consent of instructor

**Hours & Format**
Fall and/or spring: 15 weeks - 2 hours of lecture per week

**Additional Details**
Subject/Course Level: Economics/Graduate
Grading: Letter grade.

**ECON 250C Labor Economics 3 Units**
Terms offered: Fall 2014, Spring 2013, Spring 2012
Analysis of labor market behavior.
Labor Economics: Read More [+]

**Rules & Requirements**
Prerequisites: 250B

**Hours & Format**
Fall and/or spring: 15 weeks - 2 hours of lecture per week

**Additional Details**
Subject/Course Level: Economics/Graduate
Grading: Letter grade.

**ECON 251 Seminar in Labor Economics 3 Units**
Terms offered: Spring 2024, Fall 2023, Spring 2023
Seminar for students at the doctoral dissertation level.
Seminar in Labor Economics: Read More [+]

**Rules & Requirements**
Prerequisites: Consent of instructor
Repeat rules: Course may be repeated for credit without restriction.

**Hours & Format**
Fall and/or spring: 15 weeks - 2 hours of seminar per week

**Additional Details**
Subject/Course Level: Economics/Graduate
Grading: Letter grade.

**ECON 255 Spatial Economics 3 Units**
Terms offered: Spring 2024
The course covers issues in spatial economics, from a variety of viewpoints, including public finance and economic geography. The class will introduce students to advanced tools for both theoretical and empirical analysis of spatial topics.
Spatial Economics: Read More [+]

**Hours & Format**
Fall and/or spring: 15 weeks - 2 hours of lecture per week

**Additional Details**
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
ECON 260A Comparative Economics 3 Units
Terms offered: Fall 2023, Fall 2021, Fall 2020
New issues raised by transition for economics. Political economy of reform: speed, sequencing, reform design, political economy of privatization. Allocative changes: speed of sectoral reallocation, price liberalization, output fall and macroeconomic dynamics, law enforcement, dynamics of institutional change.
Comparative Economics: Read More [+]
Rules & Requirements
Prerequisites: 260A is prerequisite to 260B
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week
Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Instructor: Roland
Comparative Economics: Read Less [-]

ECON 270B Development Economics 3 Units
Terms offered: Spring 2024, Spring 2023, Spring 2022
Problems of underdevelopment and poverty, policy issues and development strategies.
Development Economics: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week
Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Development Economics: Read Less [-]

ECON 270C Development Economics 3 Units
Terms offered: Spring 2024, Spring 2023, Spring 2022
Basic macro-policy planning with investment project analysis.
Development Economics: Read More [+]
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week
Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Development Economics: Read Less [-]

ECON C270A Microeconomics of Development 3 Units
Terms offered: Fall 2023, Fall 2022, Fall 2021
Theoretical and empirical analyses of poverty and inequality, household and community behavior, and contract and institutions in the context of developing countries.
Microeconomics of Development: Read More [+]
Rules & Requirements
Prerequisites: Consent of instructor
Hours & Format
Fall and/or spring: 15 weeks - 4 hours of lecture per week
Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Also listed as: A, RESEC C251
Microeconomics of Development: Read Less [-]

ECON 271 Seminar in Development Economics 3 Units
Terms offered: Spring 2024, Fall 2023, Spring 2023
Seminar in Development Economics: Read More [+]
Rules & Requirements
Prerequisites: Consent of instructor
Repeat rules: Course may be repeated for credit without restriction.
Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week
Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Seminar in Development Economics: Read Less [-]
ECON 274 Global Poverty and Impact Evaluation 4 Units
Terms offered: Spring 2016, Spring 2015, Spring 2013
Rather than simply describing the causes and symptoms of global poverty, this course will explore the variety of tools available for rigorously measuring the impact of development programs. Through weekly case studies of field research, the course will cover impact evaluation theory and methods. The course will culminate with a final project in which each student will design an impact evaluation of a policy or intervention.
Global Poverty and Impact Evaluation: Read More [+]

Rules & Requirements
Prerequisites: At least one prior term of intermediate economics (i.e., 100A or 100B) and some prior coursework in statistics

Hours & Format
Fall and/or spring: 15 weeks - 3 hours of lecture and 1 hour of discussion per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Instructor: Miguel
Global Poverty and Impact Evaluation: Read Less [-]

ECON C275A Economic Demography 3 Units
Terms offered: Spring 2022, Spring 2019, Spring 2015
Economic consequences of demographic change in developing and developed countries including capital formation, labor markets, and intergenerational transfers. Economic determinants of fertility, mortality and migration.
Economic Demography: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Instructor: Lee
Also listed as: DEMOG C275A
Economic Demography: Read Less [-]

ECON C275B Aging: Economic and Demographic Aspects 2 Units
Course considers demographic and economic aspects of population aging.
Aging: Economic and Demographic Aspects: Read More [+]

Hours & Format
Fall and/or spring: 7.5 weeks - 2 hours of lecture per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Instructor: Lee
Also listed as: DEMOG C236
Aging: Economic and Demographic Aspects: Read Less [-]

ECON 280A International Economics 3 Units
Terms offered: Fall 2023, Fall 2022, Spring 2022
The world economy as a general equilibrium system. The theory of international economics, trade policy.
International Economics: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
Instructor: Lee
International Economics: Read Less [-]

ECON 280B International Economics 3 Units
Terms offered: Fall 2023, Fall 2021, Fall 2020
This course develops basic theoretical models for studying issues in open-economy macroeconomics. The current account and the trade balance, international capital market integration, developing country debt problems, the real exchange rate, fiscal policy in the open economy, and international policy coordination.
International Economics: Read More [+]

Rules & Requirements
Prerequisites: 280A is not prerequisite to 280B

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.
International Economics: Read Less [-]
ECON 280C International Economics 3 Units
Terms offered: Spring 2023, Spring 2022, Spring 2021
This course is an empirical treatment of open-economy macroeconomics and finance. Topics include trade elasticities, the determination of the trade balance and income under fixed and floating exchange rates, purchasing power parity, devaluation in small open economies, quantifying the degree of international capital mobility, implications for the effectiveness of monetary and fiscal policy, international interdependence and coordination, models of exchange rate determination.

International Economics: Read More [+]

Rules & Requirements
Prerequisites: 280B

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.

ECON 281 Seminar in International Trade and Finance 3 Units
Terms offered: Spring 2024, Fall 2023, Spring 2023
Seminar in International Trade and Finance: Read More [+]

Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.

ECON 295 Survey of Research in Economics 1 Unit
Terms offered: Spring 2024, Fall 2023, Spring 2023
Presentations by departmental faculty of new research directions in different subfields of economics.

Survey of Research in Economics: Read More [+]

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Offered for satisfactory/unsatisfactory grade only.

ECON 296 Special Topics in Economics 3 Units
Terms offered: Spring 2014, Spring 2013, Fall 2010
Topics of different sections to be announced annually.

Special Topics in Economics: Read More [+]

Rules & Requirements
Prerequisites: Consent of instructor
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Letter grade.

ECON 298 Directed Group Study for Graduates 1 - 4 Units
Terms offered: Spring 2024, Fall 2023, Spring 2023
Seminars for the group of selected topics, which will vary from year to year.

Directed Group Study for Graduates: Read More [+]

Rules & Requirements
Prerequisites: Consent of instructor

Hours & Format
Fall and/or spring: 15 weeks - 0 hours of independent study per week

Additional Details
Subject/Course Level: Economics/Graduate
Grading: Offered for satisfactory/unsatisfactory grade only.
ECON 299 Supervised Independent Study and Research 1 - 12 Units
Terms offered: Summer 2024 First 6 Week Session, Summer 2024 Second 6 Week Session, Spring 2024
Open to candidates for the Ph.D. degree who have passed the qualifying examination and who are engaged in research for the thesis, and in special cases, with consent of the instructor in charge, to graduate students who desire to do special work in a particular field.
Supervised Independent Study and Research: Read More [+]  
Rules & Requirements
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 0 hours of independent study per week  
Summer: 6 weeks - 0 hours of independent study per week 8 weeks - 0 hours of independent study per week  
Additional Details
Subject/Course Level: Economics/Graduate  
Grading: Offered for satisfactory/unsatisfactory grade only.
Supervised Independent Study and Research: Read Less [-]

ECON 301 GSI Practicum 4 Units
Terms offered: Spring 2024, Fall 2023, Spring 2023  
Course credit for experience gained in academic teaching through employment as a graduate student instructor.
GSI Practicum: Read More [+]
Rules & Requirements
Prerequisites: Appointment as graduate student instructor in department, consent of graduate advisor
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of seminar per week  
Additional Details
Subject/Course Level: Economics/Professional course for teachers or prospective teachers  
Grading: Offered for satisfactory/unsatisfactory grade only.
Instructor: Olney  
GSI Practicum: Read Less [-]

ECON 375 GSI Pedagogy Workshop 2 Units
Terms offered: Spring 2024, Fall 2023, Spring 2023  
This course is the pedagogy workshop for graduate student instructors (GSIs) in the Departments of Economics and Agricultural and Resource Economics (ARE), and satisfies the Graduate Division requirement for first-time GSIs. The goal of the workshop is to teach teaching. Through readings, discussion, assignments, and in-class activities, GSIs develop teaching skills grounded in pedagogical research.
GSI Pedagogy Workshop: Read More [+]
Rules & Requirements
Credit Restrictions: Not repeatable.

Hours & Format
Fall and/or spring: 15 weeks - 2 hours of lecture per week  
Additional Details
Subject/Course Level: Economics/Professional course for teachers or prospective teachers  
Grading: Offered for satisfactory/unsatisfactory grade only.
Instructor: Olney  
GSI Pedagogy Workshop: Read Less [-]

ECON 602 Individual Study for Doctoral Students 1 - 8 Units
Terms offered: Spring 2024, Fall 2023, Spring 2023  
Individual study in consultation with the major field advisor, intended to provide an opportunity for qualified graduate students to prepare themselves for the various examinations required of candidates for the Ph.D. A student will be permitted to accumulate a maximum of 16 units of 602.
Individual Study for Doctoral Students: Read More [+]
Rules & Requirements
Credit Restrictions: Course does not satisfy unit or residence requirements for doctoral degree.
Repeat rules: Course may be repeated for credit without restriction.

Hours & Format
Fall and/or spring: 15 weeks - 0 hours of independent study per week  
Additional Details
Subject/Course Level: Economics/Graduate examination preparation  
Grading: Offered for satisfactory/unsatisfactory grade only.
Individual Study for Doctoral Students: Read Less [-]