

# Economics

## Bachelor of Arts (BA)

The Department of Economics is home to over 1500 undergraduate students. Economics majors can enroll in a broad array of economics courses, ranging from economic history to advanced macroeconomics. Students are encouraged to study abroad, participate in research, and take advantage of the many opportunities Berkeley has to offer.

### Declaring the Major

As a popular major, declaration of the Economics major is admission-based and students must meet specific criteria in order to be admitted. Students who want to apply to the economics major must have completed or be currently enrolled in all the major prerequisites. Students admitted to Berkeley as freshmen must apply by their fifth semester of post-high school coursework unless they have fewer than 80 total units. This total includes coursework in-progress but excludes high school enrichment units, e.g., Advanced Placement, International Baccalaureate, or other college units earned prior to high school graduation. Transfer students required to enroll in remaining prerequisites and apply to the major during their first semester at Berkeley. The 80 unit cap does not apply to transfer students.

For more information, please visit the department's prospective student website (<https://www.econ.berkeley.edu/undergrad/prospective/>). (<https://www.econ.berkeley.edu/undergrad/prospective/>)

## Honors Program

Students interested in graduating with honors in economics should consult with a faculty adviser no later than the second semester of their junior year. The department recommends a student for graduation with honors based on evidence of superior performance provided by a thesis written in the senior year and the student's course grade record overall and in the major. The minimum major grade point average (GPA) requirement is 3.5 in upper division economics courses and 3.3 GPA overall. The senior thesis may be an extension of a seminar paper prepared under the continued guidance of a faculty member through enrollment in ECON H195A/ECON H195B.

## Minor Program

There is no minor program in economics.

In addition to the University, campus, and college requirements listed on the College Requirements tab, students must fulfill the below requirements specific to their major program.

## General Guidelines

1. All courses taken to fulfill the major requirements below must be taken for graded credit, other than courses listed which are offered on a *Pass/No Pass* basis only. Other exceptions to this requirement are noted as applicable.
2. No more than two upper division courses may be used to simultaneously fulfill requirements for a student's major and an additional major program. No more than one upper division course may be used to simultaneously fulfill requirements for a student's major and minor programs, with the exception of minors offered outside of the College of Letters & Science.

3. A minimum grade point average (GPA) of 2.0 must be maintained in both upper and lower division courses used to fulfill the major requirements.

For information regarding residence requirements and unit requirements, please see the **College Requirements** tab.

## Prerequisites

For a comprehensive overview of the Economics admission process, please visit [econ.berkeley.edu/undergrad/prospective](https://econ.berkeley.edu/undergrad/prospective) (<https://www.econ.berkeley.edu/undergrad/prospective/>)

Select one calculus sequence from the following: <sup>1</sup>

MATH 51 & MATH 52	Calculus I and Calculus II (MATH 51 and 52 as of Fall 2025 - previously MATH 1A and MATH 1B)
MATH 16A & MATH 16B	Analytic Geometry and Calculus and Analytic Geometry and Calculus (or equivalent)

Select one statistics course from the following: <sup>1, 3</sup>

STAT 20	Introduction to Probability and Statistics [4]	
STAT 21	Introductory Probability and Statistics for Business [4]	
STAT W21	Introductory Probability and Statistics for Business [4]	
STAT C88S	Probability and Mathematical Statistics in Data Science	3
DATA C88S	Probability and Mathematical Statistics in Data Science	3
STAT C131A	Statistical Methods for Data Science [4]	
STAT 135	Concepts of Statistics [4]	
STAT C140	Probability for Data Science [4]	

Select one of the following:

ECON 1	Introduction to Economics [4]
ECON 2	Introduction to Economics--Lecture Format [4] (or equivalent)

Select two of the following:

ECON 100A	Microeconomics [4]
ECON 100B	Macroeconomics [4]
ECON 101A	Microeconomics (Quantitative) [4]
ECON 101B	Macroeconomics (Quantitative) [4] <sup>2</sup>
ECON 140	Econometrics [4]
ECON 141	Econometrics (Quantitative) [4]

<sup>1</sup> At least one semester of the calculus/statistics requirement must be completed at UC Berkeley.

<sup>2</sup> Students may take UGBA 101B to fulfill the Intermediate Macroeconomic requirement.

<sup>3</sup> Students who took STAT C8, STAT 134, or IND ENG 172 Fall 2019 and prior should consult Economics website (<https://www.econ.berkeley.edu/undergrad/prospective/>) for details.

## Upper Division Requirements

Select one course from the following, to complete the sequence begun as prerequisites:

ECON 100A	Microeconomics [4]
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ECON 100B	Macroeconomics [4]
ECON 101A	Microeconomics (Quantitative) [4]
ECON 101B	Macroeconomics (Quantitative) [4] <sup>2</sup>
ECON 140	Econometrics [4]
ECON 141	Econometrics (Quantitative) [4]

Select five additional upper division economics courses.<sup>4</sup>

<sup>4</sup> Approved list of Economics electives available at <https://www.econ.berkeley.edu/undergrad/current/major-requirements> (<https://www.econ.berkeley.edu/undergrad/current/major-requirements/>)

Undergraduate students must fulfill the following requirements in addition to those required by their major program.

For a detailed lists of L&S requirements, please see Overview tab to the right in this guide or visit the L&S Degree Requirements (<https://lsadvising.berkeley.edu/degree-requirements/>) webpage. For College advising appointments, please visit the L&S Advising (<https://lsadvising.berkeley.edu/home/>) Pages.

## University of California Requirements

### Entry Level Writing

All students who will enter the University of California as freshmen must demonstrate their command of the English language by fulfilling the Entry Level Writing requirement. Fulfillment of this requirement is also a prerequisite to enrollment in all reading and composition courses at UC Berkeley and must be taken for a letter grade.

### American History and American Institutions

The American History and American Institutions requirements are based on the principle that all U.S. residents who have graduated from an American university should have an understanding of the history and governmental institutions of the United States.

## Berkeley Campus Requirement

### American Cultures

All undergraduate students at Cal need to take and pass this campus requirement course in order to graduate. The requirement offers an exciting intellectual environment centered on the study of race, ethnicity and culture of the United States. AC courses are plentiful and offer students opportunities to be part of research-led, highly accomplished teaching environments, grappling with the complexity of American Culture.

## College of Letters & Science Essential Skills Requirements

### Quantitative Reasoning

The Quantitative Reasoning requirement is designed to ensure that students graduate with basic understanding and competency in math, statistics, or computer/data science. The requirement may be satisfied by exam or by taking an approved course taken for a letter grade.

### Foreign Language

The Foreign Language requirement may be satisfied by demonstrating proficiency in reading comprehension, writing, and conversation in a foreign language equivalent to the second semester college level, either by passing an exam or by completing approved course work taken for a letter grade.

## Reading and Composition

In order to provide a solid foundation in reading, writing, and critical thinking the College of Letters and Science requires two semesters of lower division work in composition in sequence. Students must complete parts A & B reading and composition courses in sequential order by the end of their fourth semester for a letter grade.

## College of Letters & Science 7 Course Breadth Requirements

### Breadth Requirements

The undergraduate breadth requirements provide Berkeley students with a rich and varied educational experience outside of their major program. As the foundation of a liberal arts education, breadth courses give students a view into the intellectual life of the University while introducing them to a multitude of perspectives and approaches to research and scholarship. Engaging students in new disciplines and with peers from other majors, the breadth experience strengthens interdisciplinary connections and context that prepares Berkeley graduates to understand and solve the complex issues of their day.

## Unit Requirements

- 120 total units
- Of the 120 units, 36 must be upper division units
- Of the 36 upper division units, 6 must be taken in courses offered outside your major department

### Residence Requirements

For units to be considered in "residence," you must be registered in courses on the Berkeley campus as a student in the College of Letters & Science. Most students automatically fulfill the residence requirement by attending classes at Cal for four years, or two years for transfer students. In general, there is no need to be concerned about this requirement, unless you graduate early, go abroad for a semester or year, or want to take courses at another institution or through UC Extension during your senior year. In these cases, you should make an appointment to meet an L&S College adviser to determine how you can meet the Senior Residence Requirement.

Note: Courses taken through UC Extension do not count toward residence.

### Senior Residence Requirement

After you become a senior (with 90 semester units earned toward your B.A. degree), you must complete at least 24 of the remaining 30 units in residence in at least two semesters. To count as residence, a semester must consist of at least 6 passed units. Intercampus Visitor, EAP, and UC Berkeley-Washington Program (UCDC) units are excluded.

You may use a Berkeley Summer Session to satisfy one semester of the Senior Residence requirement, provided that you successfully complete 6 units of course work in the Summer Session and that you have been enrolled previously in the college.

### Modified Senior Residence Requirement

Participants in the UC Education Abroad Program (EAP), Berkeley Summer Abroad, or the UC Berkeley Washington Program (UCDC) may meet a Modified Senior Residence requirement by completing 24 (excluding EAP) of their final 60 semester units in residence. At least 12 of these 24 units must be completed after you have completed 90 units.

## Upper Division Residence Requirement

You must complete in residence a minimum of 18 units of upper division courses (excluding UCEAP units), 12 of which must satisfy the requirements for your major.

For more detailed information regarding the courses listed below (e.g., elective information, GPA requirements, etc.), see the College Requirements and Major Requirements tabs.

	Fall Units	Spring Units	Freshman Summer Units
MATH 1A	4	MATH 1B	4
OR	OR		
MATH 16A [3]	MATH 16B [3]		
Reading and Composition A	4	Reading and Composition B	4
L&S Breadth	4 ECON 1 (SBS Breadth)		4
Lower Division Elective	4	OR	
	ECON 2 [4]		
	Lower Division Elective		4
	<b>16</b>	<b>16</b>	<b>4</b>

	Fall Units	Spring Units	Sophomore Summer Units
ECON 100A	4	ECON 100B	4
OR	OR		OR
ECON 101A [4]	ECON 101B [4]		Study Abroad
STAT 20 <sup>6</sup>	4	UD Econ Elective	4
OR	L&S Breadth		3
STAT 21 <sup>6</sup> [4]	American Cultures Req		4
L&S Breadth	4		
UD non-Econ Elective	3		
	<b>15</b>	<b>15</b>	<b>0</b>

	Fall Units	Spring Units	Junior Summer Units
ECON 140	4	Upper Division Economics Elective	4
OR	Upper Division Economics Elective		4
ECON 141 [4]	Lower or Upper Division Elective		4
L&S Breadth	4	L&S Breadth	3
L&S Breadth	4		
Upper Division Non-Economics Elective	3		
	<b>15</b>	<b>15</b>	<b>0</b>

	Fall Units	Spring Units	Senior Summer Units
Upper Division Economics Elective <sup>7</sup>	4	Upper Division Economics Elective	4
Lower or Upper Division Elective	4		Upper Division Economics Elective
Lower or Upper Division Elective	4	OR	
Lower or Upper Division Elective	3	ECON H195B <sup>8</sup> [1-3]	
	Lower or Upper Division Elective		4
	Lower or Upper Division Elective		4
	<b>15</b>	<b>16</b>	

**Total Units: 127**

<sup>1</sup> This is a sample program plan. This plan assumes that the student has completed the Entry Level Writing, American History and Institutions,

Quantitative Reasoning, and Foreign Language requirements prior to admission, and does not require MATH 32.

<sup>2</sup> To declare the Economics major, students admitted as freshmen must complete all prerequisite courses and apply to the major no later than their fifth semester at Berkeley. A minimum prerequisite GPA of 3.0 is also required.

<sup>3</sup> The economics major is impacted and cannot guarantee enrollment in specific courses.

<sup>4</sup> Students are strongly advised to work with an academic advisor to determine a personal program plan. Your program plan will differ depending on previous credit received, your course schedule, and available offerings.

<sup>5</sup> MATH 53 is a prerequisite to enroll in ECON 101A. ECON 101A, ECON 101B, and ECON 141 (the math intensive versions of ECON 100A, ECON 100B, and ECON 140) are recommended for students interested in research or pursuing a PhD in Economics, and require the MATH 1A-MATH 1B series as prerequisites. ECON 100A/ECON 101A and ECON 100B/ECON 101B can be taken out of order. ECON 140/ECON 141 should be taken the semester following completion of ECON 100A/ECON 101A and ECON 100B/ECON 101B.

<sup>6</sup> Other options for the statistics prerequisite are: STAT 20, STAT 21, STAT W21, STAT C88S, STAT C131A, STAT 135, STAT C140. Students who took STAT C8, STAT 134, or IND ENG 172 Fall 2019 and prior should consult Economics website (<https://www.econ.berkeley.edu/undergrad/prospective/>) for details.

<sup>7</sup> For students intending to complete the Economics Honors Program (<https://www.econ.berkeley.edu/undergrad/current/departamental-honors/>), one approved research course can be used to fulfill both the "Research Requirement" for the Honors Program and an upper division elective. Discuss your plans for this program with an Economics advisor. The Economics Honors Program is *optional*.

<sup>8</sup> ECON H195B is the Honors Thesis Course for students intending to complete the Economics Honors Program (<https://www.econ.berkeley.edu/undergrad/current/departamental-honors/>).

## Accelerated Program Plans

For students considering graduating in less than four years, it is important to acknowledge the reasons to undertake such a plan of study. While there are advantages to pursuing a three-year degree plan such as reducing financial burdens, they are not for everyone and do involve sacrifices; especially with respect to participating in co-curricular activities, depth of study, and summer internships, which typically lead to jobs upon graduation. All things considered, please see the tables for three and three and a half year degree options.

3.5 Year Plan (<https://www.econ.berkeley.edu/sites/default/files/Final%20Edit-Website%203.5%20Year.pdf>)

3 Year Plan (<https://www.econ.berkeley.edu/sites/default/files/Final%20Edit-Website%203%20Year.pdf>)

## Mission

Economics is the study of how people make choices under conditions of scarcity and the results of those choices for society. Limited resources make tradeoffs necessary for consumers, businesses, and nations. Microeconomics studies how consumers make choices in using their time and spending their income and how businesses make choices in producing and selling goods and services. Macroeconomics studies the determination of national income and how it deviates from its potential (full employment) over the business cycle. The important

outcomes for the national economy are income and how it is distributed, unemployment, inflation, economic growth, and how well financial markets and international trade are functioning. Economics is important in studying the impact of government policies, ranging from regulatory activities in individual markets to general measures for stabilizing and steering the economy at large. The effect of alternative economic policies on the welfare of the population is a core concern in economics. Undergraduates should have the following knowledge and skills when they graduate with an economics major from UC Berkeley. The Department of Economics wants their majors to have knowledge of economics principles with the skills to apply this knowledge in the following ways.

## Learning Goals of the Major

### Critical Thinking Skills

- Apply economic analysis to evaluate everyday problems.
- Apply economic analysis to evaluate specific policy proposals.
- Compare two or more arguments that have different conclusions to a specific issue or problem.
- Understand the role of assumptions in arguments.

### Quantitative Reasoning Skills

- Understand how to use empirical evidence to evaluate an economic argument.
- Interpret statistical results.
- Conduct appropriate statistical analysis of data and explain the statistical problems involved.
- Obtain and/or collect relevant data using specific qualitative and/or quantitative research methods.

### Problem-Solving Skills

- Solve problems that have clear solutions.
- Propose solutions for problems that do not have clear answers and indicate under what conditions they may be viable solutions.

### Specialized Knowledge and Application of Skills

- In specific content areas (fields) of economics, develop deeper critical and quantitative thinking skills, and apply problem-solving skills to complex problems.

### Communication Skills

- Communicate effectively in written, spoken, and graphical form about specific economic issues.
- Formulate a well-organized written argument that states assumptions and hypotheses, which are supported by evidence.
- Present an economic argument orally.

### Lifelong Learning Skills

- Possess a working knowledge of information databases (e.g., Econ Lit, Nexis-Lexis).
- Know how to locate and use primary data sources (e.g., BLS Household Survey, UN Human Development Index).
- Understand and evaluate current economic events and new economic ideas.

## Career Services Overview

### Our Vision

Cultivate a university-wide culture of career readiness, where every student engages in meaningful experiences, has a supportive professional community, and is empowered to achieve lifelong career success.

### Our Mission

We are dedicated to advancing equity and access to career resources for every student and recent alumni of UC Berkeley.

**We engage** with students on their journey to reflect, discover, and design a personally meaningful career (Career Clarity (<https://career.berkeley.edu/start-exploring/career-essentials/gain-clarity/>)).

**We connect** students with alumni, employers, and their larger professional community to forge meaningful relationships that will guide them into their early career (Career Connections (<https://career.berkeley.edu/start-exploring/career-essentials/make-connections/>)).

**We empower** students to develop the professional confidence and experience necessary to secure the career opportunities they seek (Career Competitiveness (<https://career.berkeley.edu/start-exploring/career-essentials/develop-competitiveness/>)).

Berkeley Career Engagement utilizes Handshake (<https://career.berkeley.edu/handshake/>), a powerful recruiting platform that uses cutting-edge technology to help students more easily connect with employers, jobs, internships, events, and resources, as well as access to career coaching appointments.

## Career and Internship Resources

Berkeley Career Engagement (<https://career.berkeley.edu/>) offers a wide variety of programs and resources to support students of all majors and class levels.

- Job & Internship Search Tools (<https://career.berkeley.edu/find-opportunities/jobs/>): Resume and cover letter writing, job search strategies, networking tools, interviewing skills, and more, can be found in their Career Readiness Workbook. ([https://issuu.com/calcareercenter/docs/cr\\_workbook\\_19-20\\_\\_2\\_/](https://issuu.com/calcareercenter/docs/cr_workbook_19-20__2_/))
- 24/7 Online Resources: (<https://career.berkeley.edu/resources-on-demand/>) Their Resources on Demand are here to help you engage and grow in your career development.
- Career Coaching: (<https://career.berkeley.edu/start-exploring/meet-with-us/career-counseling/>) They offer a wide variety of scheduled and drop-in appointment options based on major and topic.
- Internships (<https://career.berkeley.edu/find-opportunities/internships/>): Internship listings, search strategies, FAQs, and more.
- Career Exploration (<https://career.berkeley.edu/start-exploring/>): Discover their resources to help you explore career options, identify career goals, and develop effective career plans.
- Events and Workshops (<https://career.berkeley.edu/start-exploring/events/calendar/>): They deliver over 100 events each semester including workshops, alumni networking events, career panels, conferences, and Alumni Career Chats.

- Career Fairs (<https://career.berkeley.edu/find-opportunities/career-fairs/>) and Employer Information Sessions (<https://career.berkeley.edu/find-opportunities/employer-events/info-sessions/>): They offer a variety of career fairs each year across different career fields and partner with numerous employers for on-campus information sessions.
- Graduate and Professional School (<https://career.berkeley.edu/get-into-grad-school/>): Counseling and resources to help students research and apply for graduate and professional school including medical school (<https://career.berkeley.edu/get-into-grad-school/medical-school/>) and law school (<https://career.berkeley.edu/get-into-grad-school/law-school/>).

## Common Career Paths for Economics Majors

### Career Destinations Survey

Every year the Career Center surveys graduating seniors (<https://career.berkeley.edu/start-exploring/where-do-cal-grads-go/>) about their post-graduation plans to better understand the career outcomes of our alumni including: career fields, job titles, specific employers, entry-level salaries, and graduate/professional school destinations. The data profiles by major provide an impressive overview of the diverse interests and achievements of recent graduates from UC Berkeley, including specific data for the Economics Department (<https://whatcanidowiththismajor.com/major/economics/>). Each survey year includes the August, December, and May graduating cohorts for that survey year. This data is designed to provide students, alumni, and employers with critical information about where Cal students go after graduation. As expected, college major does not restrict the employment or graduate school options that Cal students pursue. With careful planning (<https://career.berkeley.edu/prepare-for-success/develop-a-plan/>), you can develop career-related skills and experiences that can prepare you for almost any job or graduate school field.

### Sample Career Pathways

Economics majors go on to pursue a wide variety of career options including, but not limited to:

- Economics: Data collection, research analysis, forecasting, planning, consulting and policy advising roles in many industries including private sector consulting and research firms, retail, insurance, transportation, healthcare, federal, state and local government agencies, public utilities, or labor unions.
- Banking and finance: Financial analysis, commercial banking, mortgage and lending services, credit analysis, branch management, securities sales and research.
- Management: Business and industry including banks, retail stores, restaurants, hotels, healthcare, manufacturing, government and nonprofit organizations.
- Insurance: Claims, underwriting, risk management, sales, loss control, and actuarial science.
- Sales: Industrial sales, consumer product sales, financial services sales, advertising sales, ecommerce, high tech forms, and media.
- Education: Teaching, research and administrative roles in colleges, universities, and secondary schools.

Visit our Connecting Majors to Careers (<https://career.berkeley.edu/start-exploring/majors-to-career/>) resource to explore additional career paths

most commonly associated with over 80 majors, including Economics (<https://whatcanidowiththismajor.com/major/economics/>).

Major maps are experience maps that help undergraduates plan their Berkeley journey based on intended major or field of interest. Featuring student opportunities and resources from your college and department as well as across campus, each map includes curated suggestions for planning your studies, engaging outside the classroom, and pursuing your career goals in a timeline format.

Use the major map below to explore potential paths and design your own unique undergraduate experience:

**View the Economics Major Map.**

## Student Services

The economics student services mission is to advise our students holistically by providing a high standard of service in a supportive and collaborative environment. Professional and peer advisers work as a team to provide accurate information in a timely manner. We partner with faculty to assist students in engaging with the campus and the global economic community. We value fairness, diversity, and the important roles our students, faculty, and staff in the Department of Economics play at the University of California, Berkeley.

Please visit our website for more information about our advising services: <https://www.econ.berkeley.edu/undergrad/home/advising> (<https://www.econ.berkeley.edu/undergrad/home/advising/>)

## Economics

### ECON 1 Introduction to Economics 4 Units

Terms offered: Summer 2025 8 Week Session, Spring 2025, Fall 2024  
A survey of economics designed to give an overview of the field.

#### Rules & Requirements

**Credit Restrictions:** Students will receive no units for Economics 1 after passing Economics 2.

#### Hours & Format

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

#### Summer:

6 weeks - 6 hours of lecture and 6 hours of discussion per week  
8 weeks - 4 hours of lecture and 4 hours of discussion per week

#### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required, with common exam group.

## ECON 2 Introduction to Economics--Lecture Format 4 Units

Terms offered: Spring 2025, Fall 2024, Spring 2024

Econ 2 provides an overview of the field of economics. It covers both microeconomics, the study of consumer choice, firm behavior, and market interaction, and macroeconomics, the study of economic growth, unemployment, and inflation. Econ 2 has longer lectures than Econ 1. Econ 2 covers topics in greater depth with more connection with current economic research. The required material includes both the standard textbook material as well as more technical academic papers from the current economic literature. It is particularly suited for intended economics majors.

### Rules & Requirements

**Credit Restrictions:** Students will receive no credit for ECON 2 after completing ENVECON 1, ECON 3, or ECON 1.

### 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/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON C3 Introduction to Environmental Economics and Policy 4 Units

Terms offered: Summer 2025 8 Week Session, Fall 2024, Summer 2024 8 Week Session, Fall 2023, Fall 2022

Introduction to microeconomics with emphasis on resource, agricultural, and environmental issues.

### Rules & Requirements

**Prerequisites:** Mathematics 32

**Credit Restrictions:** Students will receive no credit for ECON C3 after completing ECON 1.

### Hours & Format

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

**Summer:** 8 weeks - 6 hours of lecture and 2 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

**Also listed as:** ENVECON C1

## ECON 24 Freshman Seminar 1 Unit

Terms offered: Fall 2011, Spring 2008, Fall 2004

The Freshman Seminar Program has been designed to provide new students with the opportunity to explore an intellectual topic with a faculty member in a small seminar setting. Freshman seminars are offered in all campus departments. Topics vary from department to department and semester to semester. Enrollment limited to 15 freshman.

### Rules & Requirements

**Repeat rules:** Course may be repeated for credit when topic changes.

### Hours & Format

**Fall and/or spring:** 15 weeks - 1 hour of seminar per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** The grading option will be decided by the instructor when the class is offered. Final Exam To be decided by the instructor when the class is offered.

## ECON 84 Sophomore Seminar 1 or 2 Units

Terms offered: Spring 2025, Spring 2022, Spring 2021

Sophomore seminars are small interactive courses offered by faculty members in departments all across the campus. Sophomore seminars offer opportunity for close, regular intellectual contact between faculty members and students in the crucial second year. The topics vary from department to department and semester to semester. Enrollment limited to 15 sophomores.

### Rules & Requirements

**Prerequisites:** At discretion of instructor

**Repeat rules:** Course may be repeated for credit when topic changes.

### Hours & Format

#### Fall and/or spring:

5 weeks - 3-6 hours of seminar per week

10 weeks - 1.5-3 hours of seminar per week

15 weeks - 1-2 hours of seminar per week

#### Summer:

6 weeks - 2.5-5 hours of seminar per week

8 weeks - 1.5-3.5 hours of seminar per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** The grading option will be decided by the instructor when the class is offered. Final Exam To be decided by the instructor when the class is offered.

## ECON 98 Directed Group Study 1 - 4 Units

Terms offered: Fall 2019, Fall 2016, Fall 2015

Written proposal must be approved by Department Chair. Seminars for the group study of selected topics, which will vary from year to year. Topics may be initiated by students.

### Rules & Requirements

**Credit Restrictions:** Enrollment is restricted; see the Introduction to Courses and Curricula section of this catalog.

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

### Hours & Format

**Fall and/or spring:** 15 weeks - 1-4 hours of directed group study per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Offered for pass/not pass grade only. Final exam not required.

## ECON 100A Microeconomics 4 Units

Terms offered: Summer 2025 8 Week Session, Spring 2025, Fall 2024

This course introduces students to the main tools and concepts of microeconomics. These tools and concepts will serve as a foundation for many upper level economics courses. Topics covered include consumer theory, producer theory, equilibrium in a competitive market, monopoly, general equilibrium, and asymmetric information. This course makes use of calculus. Topics covered are similar to those in 101A.

### Rules & Requirements

**Prerequisites:** Econ 1 or 2 or C3, or Environmental Economics and Policy 1, and Mathematics 51 (Calculus) or 16A (Analytic Geometry and Calculus), and Mathematics 52 or 16B, or equivalent

**Credit Restrictions:** Students will receive no credit for ECON 100A after completing ECON 101A, UGBA 101A, or ECON S100A.

### Hours & Format

**Fall and/or spring:** 15 weeks - 3-3 hours of lecture and 1-2 hours of discussion per week

**Summer:** 8 weeks - 6-6 hours of lecture and 1.5-4 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON 100B Macroeconomics 4 Units

Terms offered: Summer 2025 8 Week Session, Spring 2025, Fall 2024

This course introduces students to the main approaches economists use to describe how the economy works at the aggregate level. Topics covered include economic growth, business cycles, the determinants of aggregate employment, unemployment, and inflation, and the effects of monetary and fiscal policy. This course makes use of calculus. Topics covered are similar to those in 101B.

### Rules & Requirements

**Prerequisites:** Econ 1 or 2, and Mathematics 51 (Calculus) or 16A (Analytic Geometry and Calculus)

**Credit Restrictions:** Students will receive no credit for ECON 100B after completing ECON 101B, UGBA 101B, or ECON S100B.

### Hours & Format

**Fall and/or spring:** 15 weeks - 3-3 hours of lecture and 1-2 hours of discussion per week

### Summer:

6 weeks - 8-8 hours of lecture and 2-4 hours of discussion per week

8 weeks - 6-6 hours of lecture and 1.5-4 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required, with common exam group.

## ECON 101A Microeconomics (Quantitative) 4 Units

Terms offered: Spring 2025, Fall 2024, Spring 2024

This course introduces students to the main tools and concepts of microeconomics. These tools and concepts will serve as a foundation for many upper level economics courses. Topics covered include consumer theory, producer theory, equilibrium in a competitive market, monopoly, general equilibrium, game theory, and asymmetric information. Topics covered are similar to those in 100A, but this course uses calculus more intensively and is intended for students seeking a more mathematical approach.

### Rules & Requirements

**Prerequisites:** Econ 1 or 2, Mathematics 53 or equivalent or consent of instructor

**Credit Restrictions:** Students will receive no credit for ECON 101A after completing ECON 100A, or UGBA 101A.

### Hours & Format

**Fall and/or spring:** 15 weeks - 3-3 hours of lecture and 1-2 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON 101B Macroeconomics (Quantitative) 4 Units

Terms offered: Spring 2025, Fall 2024, Spring 2024

This course introduces students to the main approaches economists use to describe how the economy works at the aggregate level. Topics covered include economic growth, business cycles, the determinants of aggregate employment, unemployment, and inflation, and the effects of monetary and fiscal policy. Topics covered are similar to those in 100B, but this course uses calculus more intensively and is intended for students seeking a more mathematical approach.

### Rules & Requirements

**Prerequisites:** Econ 1 or 2, and Mathematics 51 and 52 (Calculus)

**Credit Restrictions:** Students will not receive credit for 101B after taking 100B or Undergraduate Business Administration 101B. A deficient grade in Undergraduate Business Administration 101B may be repeated by taking 101B.

### Hours & Format

**Fall and/or spring:** 15 weeks - 3-3 hours of lecture and 1-2 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON C102 Natural Resource Economics 4 Units

Terms offered: Spring 2025, Fall 2023, Spring 2023

Introduction to the economics of natural resources. Land and the concept of economic rent. Models of optimal depletion of nonrenewable resources and optimal use of renewable resources. Application to energy, forests, fisheries, water, and climate change. Resources, growth, and sustainability.

### Rules & Requirements

**Prerequisites:** 100, or Economics 100A or 100B

### 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/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

**Instructor:** Sunding

**Also listed as:** ENVECON C102

## ECON C103 Introduction to Mathematical Economics 4 Units

Terms offered: Spring 2025, Fall 2024, Spring 2024

Selected topics illustrating the application of mathematics to economic theory. This course is intended for upper-division students in Mathematics, Statistics, the Physical Sciences, and Engineering, and for economics majors with adequate mathematical preparation. No economic background is required.

### Rules & Requirements

**Prerequisites:** Math 53 and 54

### Hours & Format

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

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

**Formerly known as:** 103

**Also listed as:** MATH C103

## ECON 104 Advanced Microeconomic Theory 4 Units

Terms offered: Fall 2022, Spring 2021, Spring 2020

This course explores some issues in advanced microeconomic theory, with special emphasis on game-theoretic models and the theory of choice under uncertainty. Specific applications will vary from year to year, but will generally include topics from information economics and models of strategic interaction.

### Rules & Requirements

**Prerequisites:** 101A or consent of instructor

### Hours & Format

**Fall and/or spring:** 15 weeks - 3 hours of lecture and 0-1 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON 105 History of Economic Thought 4 Units

Terms offered: Fall 2019, Summer 2019 First 6 Week Session, Fall 2018  
A survey of the theories of major economists from Adam Smith to Keynes.

### Hours & Format

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

### Summer:

6 weeks - 8 hours of lecture per week  
8 weeks - 5.5 hours of lecture per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON 106 Advanced Macroeconomics 4 Units

Terms offered: Spring 2021

This class will provide an introduction to the modern analysis of macroeconomic stabilization policies such as monetary policy and fiscal policy. Students will be introduced to modern techniques such as dynamic stochastic general equilibrium models with rational expectations as well as modern techniques for empirically assessing the effects of macroeconomic policies on the economy.

### Rules & Requirements

**Prerequisites:** Econ 100A (or Econ 101A) and Econ 100B (or Econ 101B) or consent of instructor

**Credit Restrictions:** Students will receive no credit for ECON 106 after completing ECON 106. A deficient grade in ECON 106 may be removed by taking ECON 106.

### Hours & Format

**Fall and/or spring:** 15 weeks - 3-3 hours of lecture and 1-0 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON C110 Game Theory in the Social Sciences 4 Units

Terms offered: Spring 2025, Fall 2023, Spring 2023

A non-technical introduction to game theory. Basic principle, and models of interaction among players, with a strong emphasis on applications to political science, economics, and other social sciences.

### Rules & Requirements

**Credit Restrictions:** Students receive no credit for PS C135/PEIS C135/ECON C110 after taking ECON 104. If PS C135/ECON C110/PS W135/ECON N110 is taken and with a passing grade, students can't take the other versions of the course for additional credit. If PS C135/ECON C110/PS W135/ECON N110 is taken and not passed, students can take the other versions to replace grade.

**Repeat rules:** Course may be repeated for credit under special circumstances: PS C135/ECON C110, PS W135 and ECON N110 are similar in content. See Restriction Description.

### Hours & Format

**Fall and/or spring:** 15 weeks - 3-3 hours of lecture and 0-1 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

**Formerly known as:** Economics C110, Political Economy of Industrial Soc C135, Political Science C135

**Also listed as:** POL SCI C135

## ECON N110 Game Theory in the Social Sciences 4 Units

Terms offered: Summer 2025 8 Week Session, Summer 2024 First 6 Week Session, Summer 2023 8 Week Session

A non-technical introduction to game theory. Basic principle, and models of interaction among players, with a strong emphasis on applications to political science, economics, and other social sciences.

### Rules & Requirements

**Credit Restrictions:** Students will receive no credit for Economics N110 after completing Economics 104, Political Science C135/Political Economy of Industrial Societies/Economics C110.

### Hours & Format

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

**Summer:** 8 weeks - 6 hours of lecture per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam not required.

**Formerly known as:** 135

## ECON 111 Applied Mechanism Design 4 Units

Terms offered: Fall 1974

The course will analyze the roles of individual incentives, target group objectives and outcomes and how they are impacted by group decision making systems. A group decision making system is a way of making group level decisions. We examine this through the lens of game theory and mechanism design and other complementary analytic approaches. For example, we would examine the impact of having alternative election systems. This course draws primarily from microeconomic theory as an anchoring framework to evaluate these systems and individual actions. As with much of behavioral economics where we deal with real complex structures, we borrow from psychology (for behavioral theory) and business and politics (for real world examples).

### Rules & Requirements

**Prerequisites:** -Required: Math 1A/1B or equivalent, Econ 1 or equivalent, Stats 20, 21, W21, 88, 131A, or 135 or equivalent -Preferred: (not required but nice to have for background) Econ 100A /101A (Intermediate Micro), Econ 110(Game Theory), Econ 140/141 (Econometrics)

### Hours & Format

**Fall and/or spring:** 15 weeks - 3-3 hours of lecture and 1-0 hours of discussion per week

**Summer:** 8 weeks - 6-6 hours of lecture and 2-0 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Alternate method of final assessment during regularly scheduled final exam group (e.g., presentation, final project, etc.).

## ECON 113 U.S Economic History 4 Units

Terms offered: Spring 2025, Spring 2018, Spring 2017

A survey of the history of the U.S. economy. Emphasis is on economic events, factors, and explanations, with particular emphasis on economic growth, development, and the distribution of gains and losses associated with growth. A key skill developed during the course is the ability to read, understand, and critique econometric results in current economic history research.

### Rules & Requirements

**Prerequisites:** Econ 1 or 2 or C3, or EnvEcon C1; Econ 140 or 141 or EnvEcon/IAS C118

**Credit Restrictions:** Students will receive no credit for ECON 113 after completing ECON N113. A deficient grade in ECON 113 may be removed by taking ECON N113.

### Hours & Format

**Fall and/or spring:** 15 weeks - 3-3 hours of lecture and 0-1 hours of discussion per week

**Summer:** 8 weeks - 6-6 hours of lecture and 0-2 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON N113 U.S Economic History 4 Units

Terms offered: Summer 2010 8 Week Session, Summer 2009 10 Week Session, Summer 2009 8 Week Session

A survey of the history of the U.S. economy. Emphasis is on economic events, factors, and explanations, with particular emphasis on economic growth, development, and the distribution of gains and losses associated with growth. A key skill developed during the course is the ability to read, understand, and critique econometric results in current economic history research.

### Rules & Requirements

**Prerequisites:** Econ 1 or 2 or C3, or EnvEcon C1; Econ 140 or 141 or EnvEcon/IAS C118

**Credit Restrictions:** Students will receive no credit for ECON N113 after completing ECON 113. A deficient grade in ECON N113 may be removed by taking ECON 113.

### Hours & Format

**Summer:** 8 weeks - 8 hours of lecture per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON 115 The World Economy in the Twentieth Century 4 Units

Terms offered: Spring 2025, Spring 2024, Spring 2023  
Development of the world economic system with particular reference to world-wide trading relationships. This course is equivalent to History 160; students will not receive credit for both courses.

### Rules & Requirements

**Prerequisites:** 1 or 2

**Credit Restrictions:** Students will receive no credit for ECON 115 after passing History 160.

### Hours & Format

**Fall and/or spring:** 15 weeks - 3 hours of lecture and 0-1 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON 116 Economic Growth Seminar 4 Units

Terms offered: Prior to 2007  
This seminar course will analyze how scholars think about modern economic growth and how people thought about the idea of economics growth before the onset of modern economic growth in the 19th century. Students will read major works by scholars trying to understand economic growth from different perspectives and discuss what these scholars got right and what they got wrong.

### Rules & Requirements

**Prerequisites:** Economics 100B or 101B

### Hours & Format

**Fall and/or spring:** 15 weeks - 3 hours of seminar per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Alternative to final exam.

## ECON 119 Psychology and Economics 4 Units

Terms offered: Fall 2024, Summer 2024 8 Week Session, Spring 2024  
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 incorporated into economics. The implications of these new assumptions for theoretical and empirical economics will be explored.

### Rules & Requirements

**Prerequisites:** 100A or 101A

### Hours & Format

**Fall and/or spring:** 15 weeks - 3-3 hours of lecture and 0-1 hours of discussion per week

### Summer:

6 weeks - 8-8 hours of lecture and 0-2 hours of discussion per week  
8 weeks - 6-6 hours of lecture and 0-2 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON 121 Industrial Organization and Public Policy 4 Units

Terms offered: Fall 2024, Spring 2024, Fall 2023  
The organization and structure of production in the U.S. economy. Determinants of market structure, business behavior, and economic performance. Implications for antitrust policy.

### Rules & Requirements

**Prerequisites:** 100A or 101A

### Hours & Format

**Fall and/or spring:** 15 weeks - 3-3 hours of lecture and 0-1 hours of discussion per week

### Summer:

6 weeks - 8-8 hours of lecture and 0-2 hours of discussion per week  
8 weeks - 6-6 hours of lecture and 0-1.5 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON 122 Industrial Organization Seminar 4 Units

Terms offered: Fall 2012, Spring 2010, Spring 2009

Seminar on problems in the field of industrial organization. Seminar paper is required.

### Rules & Requirements

**Prerequisites:** 121 and/or consent of instructor

### Hours & Format

**Fall and/or spring:** 15 weeks - 3 hours of seminar per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam not required.

## ECON 123 Government Regulation of Industry 3 Units

Terms offered: Fall 2014, Spring 2014, Spring 2013

Problems of public policy in the field of industrial organization. Analysis of regulatory consequences with particular attention to economic performance.

### Rules & Requirements

**Prerequisites:** 121

### Hours & Format

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

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON 124 Special Topics in Industrial Organization 4 Units

Terms offered: Spring 2016, Spring 2015, Spring 2014

Analysis of market structure, conduct and performance in selected industries. See course announcement for current topics.

### Rules & Requirements

**Prerequisites:** 121

### Hours & Format

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

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON C125 Environmental Economics 4 Units

Terms offered: Fall 2024, Spring 2024, Spring 2023

Theories of externalities and public goods applied to pollution and environmental policy. Trade-off between production and environmental amenities. Assessing nonmarket value of environmental amenities. Remediation and clean-up policies. Environment and development. Biodiversity management.

### Rules & Requirements

**Prerequisites:** 100, Mathematics 16A-16B, or Economics 100A or 101A

### Hours & Format

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

**Summer:** 8 weeks - 6 hours of lecture and 2 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

**Instructor:** Zilberman

**Also listed as:** ENVECON C101

## ECON 127 Antitrust Economics and Law 4 Units

Terms offered: Spring 2025, Spring 2023, Spring 2022

We will study both antitrust law and antitrust economics. Antitrust law governs the accumulation and exercise of market power. It prohibits both monopolization and agreements in unreasonable restraint of trade such as price fixing. It also prohibits anticompetitive mergers and a variety of specific competition problems such as exclusive dealing or tying arrangements. Deciding what qualifies as "monopolization," what qualifies as an "unreasonable restraint of trade," what qualifies as "anticompetitive," and more generally how to interpret the prohibitions of antitrust law invariably involves economic analysis. Such economic analysis commonly goes by the name "antitrust economics".

### Rules & Requirements

**Prerequisites:** Intermediate Microeconomics at the level of Economics 100A or 101A is required. Economics 121 is recommended

### 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/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON 130 Using Economics for Public Policy 4 Units

Terms offered: Fall 2024, Fall 2023, Fall 2022

This course explores how economics can be used to understand and evaluate public policies. We will use both economic theory and empirical evidence to study the varying impacts and incentives created by public policies. An emphasis will be placed on the application of economic tools to policy questions. The course will provide an overview of key research in several policy areas, including inequality and opportunity, the social safety net, education, criminal justice, tax policy, climate change and the environment, health care, and structural barriers to racial equity. The course will also provide an introduction to empirical techniques common in economics and policy analysis, including regression, cost-benefit analysis, and causal inference.

### Rules & Requirements

**Prerequisites:** Economics 1 or 2

### Hours & Format

**Fall and/or spring:** 15 weeks - 3-3 hours of lecture and 1-1 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON 131 Public Economics 4 Units

Terms offered: Summer 2025 8 Week Session, Spring 2025, Fall 2024

This course focuses on the role of the government in the economy from a theoretical and empirical perspective. The aim of the course is to provide an understanding of the reasons for government intervention in the economy, analyzing the merits of possible government policies, and the response of economic agents to the government's actions. The course covers the analysis of tax policy, social insurance programs, public goods, environmental protection, and the interaction between different levels of government. Special emphasis is set on current government policy issues such as social security reform, income tax reform, and budget deficits.

### Rules & Requirements

**Prerequisites:** 100A-100B or 101A-101B

### Hours & Format

**Fall and/or spring:** 15 weeks - 3-3 hours of lecture and 0-1 hours of discussion per week

### Summer:

6 weeks - 7.5-7.5 hours of lecture and 0-2.5 hours of discussion per week

8 weeks - 5.5-6 hours of lecture and 0-2 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON 132 Seminar in Public Sector Economics 4 Units

Terms offered: Fall 2015, Fall 2014, Fall 2013

Enrollment will be limited. A seminar paper is required.

### Rules & Requirements

**Prerequisites:** 131 and/or consent of instructor

### Hours & Format

**Fall and/or spring:** 15 weeks - 3 hours of seminar per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON 133 Global Inequality and Growth 4 Units

Terms offered: Spring 2025, Spring 2024, Fall 2022

This course provides an introduction to the analysis of economic inequalities and the interplay between inequality and economic growth. It focuses on three sets of core questions: 1) How does inequality evolve over the path of development? 2) What are the theories that can explain the degree of economic inequalities and its dynamic? 3) How do policies affect inequalities, and what types of policies can foster equitable growth? The course addresses these issues from a global and historical perspective: it comprehensively deals with the United States today, but also with inequality in China, India, Latin America, and Europe, as far back as 1700.

### Rules & Requirements

**Prerequisites:** Economics 1

### Hours & Format

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

### Summer:

6 weeks - 10 hours of lecture and 0 hours of discussion per week

8 weeks - 6 hours of lecture and 0 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

**Instructor:** Zucman

## ECON 134 Macroeconomic Policy from the Great Depression to Today 4 Units

Terms offered: Fall 2024, Fall 2023, Spring 2023

This course will analyze the macroeconomic challenges and policy responses in the United States over the past century. Among the key topics studied are the Great Depression and the New Deal; boom and bust monetary and fiscal policy in the early post-World War II period; the Volcker disinflation and the Great Moderation; and the 2008 financial crisis and the Great Recession.

### Rules & Requirements

**Prerequisites:** Econ 100B or 101B; and Econ 140 or 141 or EnvEcon/IAS C118

### 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/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

**Instructor:** Romer

## ECON 135 Economic Growth in Historical Perspective 4 Units

Terms offered: Fall 2024, Spring 2023, Spring 2022

This course examines the idea and reality of economic growth in historical perspective, beginning with the divergence between human ancestors and other primates and continuing through with forecasts for the 21st century and beyond. Topics covered include human speciation, language, and sociability; the discovery of agriculture and the domestication of animals; the origins and maintenance of gross inequality; Malthusian economies; the Commercial and Industrial Revolutions; modern economic growth; international prosperity differentials; OECD convergence and East Asian miracles; the political economy of growth and stagnation; and the stubborn persistence of poverty.

### Rules & Requirements

**Prerequisites:** Required: Econ 100B or Econ 101B, and Mathematics 1A or 16A, and Mathematics 1B or 16B Recommended: Data Science 8, or equivalent

### Hours & Format

**Fall and/or spring:** 15 weeks - 3-3 hours of lecture and 1-0 hours of discussion per week

**Summer:** 8 weeks - 6-6 hours of lecture and 2-0 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON 136 Financial Economics 4 Units

Terms offered: Summer 2025 8 Week Session, Spring 2025, Fall 2024  
Analysis of financial assets and institutions. The course emphasizes modern asset valuation theory and the role of financial intermediaries, and their regulation, in the financial system.

### Rules & Requirements

**Prerequisites:** 100A or 101A, and one semester of statistics

**Credit Restrictions:** Students will receive no credit for 136 after taking Undergraduate Business Administration 103. Students intending on majoring in Business should not take 136.

### Hours & Format

**Fall and/or spring:** 15 weeks - 3-3 hours of lecture and 0-1 hours of discussion per week

### Summer:

6 weeks - 8-8 hours of lecture and 0-2 hours of discussion per week  
8 weeks - 6-6 hours of lecture and 0-2 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON N136 Financial Economics 4 Units

Terms offered: Summer 2009 10 Week Session, Summer 2009 8 Week Session, Summer 2008 8 Week Session

Analysis of financial assets and institutions. The course emphasizes modern asset valuation theory and the role of financial intermediaries, and their regulation, in the financial system.

### Rules & Requirements

**Prerequisites:** 100A or 101A, and one semester of statistics

### Hours & Format

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

**Summer:** 8 weeks - 8 hours of lecture per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam not required.

## ECON 138 Financial and Behavioral Economics 4 Units

Terms offered: Spring 2025, Spring 2023, Spring 2022

This course is an advanced class in Financial Economics. Topics include moral hazard (principal-agent problems, free cash flow), asymmetric Information (security issuance, dividends), mergers and acquisitions (theory, managerial incentives), corporate governance (separation of ownership and control, internal capital markets, superstar CEOs), corporate fraud (earnings manipulations). This class emphasizes the economic underpinning of financial decision-making and is mathematically and technically demanding. You will be required to do some empirical homework using STATA.

### Rules & Requirements

**Prerequisites:** 100A or 101A, and Statistics 20, 21, or 25 or any upper division statistics course

### Hours & Format

**Fall and/or spring:** 15 weeks - 3 hours of lecture and 0-1 hours of discussion per week

### Summer:

6 weeks - 7.5 hours of lecture and 0-2.5 hours of discussion per week  
8 weeks - 6 hours of lecture and 0-1.5 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON 139 Asset Pricing and Portfolio Choice 4 Units

Terms offered: Fall 2023, Spring 2023, Fall 2022

This undergraduate elective focuses on financial economics, with specific emphasis on asset pricing and the valuation of risky cash flows. After developing and studying the details of consumer decision-making under uncertainty, we use this general framework as a basis for understanding both equilibrium and no-arbitrage theories of securities pricing, including traditional models like the capital asset pricing model and newer Arrow-Debreu theories.

### Rules & Requirements

**Prerequisites:** Students need a basic understanding of the principles of microeconomic theory. Some exposure to linear algebra, probability and statistics is helpful. Required courses: Economics 100A/101A, or equivalent. Recommended courses: Math 54 (linear algebra half), Statistics 20, or equivalent

### Hours & Format

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

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON 140 Econometrics 4 Units

Terms offered: Spring 2025, Fall 2024, Summer 2024 8 Week Session

This course provides an introduction to statistical and estimation analysis of economic data, also known as "Econometrics". It covers topics such as the linear regression model and its estimator, Ordinary Least Squares, as well as extensions such as Instrumental Variables models, panel data models, and time series models. Topics covered in this course are similar to those in 141.

### Rules & Requirements

**Prerequisites:** Econ 1 or 2 or equivalent, Stats 20, 21, W21, 88, 131A, or 135 or equivalent

**Credit Restrictions:** Students will not receive credit for 140 after taking 141.

### Hours & Format

**Fall and/or spring:** 15 weeks - 3 hours of lecture and 1.5 hours of discussion per week

**Summer:** 8 weeks - 6 hours of lecture and 3 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required, with common exam group.

## ECON 141 Econometrics (Quantitative) 4 Units

Terms offered: Spring 2025, Fall 2024, Spring 2024

This course provides an introduction to statistical and estimation analysis of economic data, also known as "Econometrics". It covers topics such as the linear regression model and its estimator, Ordinary Least Squares, as well as extensions such as Instrumental Variables models, panel data models, and time series models. Topics covered in this course are similar to those in 140, but this course is intended for students seeking a more rigorous approach.

### Rules & Requirements

**Prerequisites:** Econ 1 or 2 or equivalent, Stats 20, 21, W21, 88, 131A, or 135 or equivalent, Math 53 and 54 or equivalent

**Credit Restrictions:** Students will receive no credit for ECON 141 after completing ECON S141, or ECON 140.

### Hours & Format

**Fall and/or spring:** 15 weeks - 3 hours of lecture and 1.5 hours of discussion per week

**Summer:** 8 weeks - 4 hours of lecture and 3 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON C142 Applied Econometrics and Public Policy 4 Units

Terms offered: Spring 2022, Spring 2021, Fall 2020, Spring 2020

This course focuses on the sensible application of econometric methods to empirical problems in economics and public policy analysis. It provides background on issues that arise when analyzing non-experimental social science data and a guide for tools that are useful for empirical research. By the end of the course, students will have an understanding of the types of research designs that can lead to convincing analysis and be comfortable working with large scale data sets.

### Rules & Requirements

**Prerequisites:** 140 or 141 or consent of instructor

**Credit Restrictions:** Students who completed Econ C142 receive no credit for Econ N142.

### Hours & Format

**Fall and/or spring:** 15 weeks - 3-3 hours of lecture and 1-0 hours of discussion per week

**Summer:** 8 weeks - 6-6 hours of lecture and 2-0 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Alternate method of final assessment during regularly scheduled final exam group (e.g., presentation, final project, etc.).

**Also listed as:** POL SCI C131A/PUB POL C142

## ECON 143 Econometrics: Advanced Methods and Applications 4 Units

Terms offered: Spring 2024, Spring 2023, Spring 2022

This course introduces selected advanced data analysis and inference methods appropriate for economic data. Methods are taught in tandem with real world applications as encountered in policy analysis, industry and consulting work. Equal weight is given to theoretical development, computation and application. Exact topics and applications may vary across offerings. ECON C142 and 143 may be taken independently or together in any order.

### Rules & Requirements

**Prerequisites:** (i) A first course in econometrics, intermediate statistics or intermediate data science (Ec 140, Ec 141, ENVECON C118, DATA C100 or STAT 135); (ii) Linear algebra (Math 54, Stat 89A or EECS 16A). (iii) Exposure to economic theory at an intermediate level (e.g., Ec 100A, 101A etc.) is preferred, but not required. Prior exposure to scientific computing is also helpful, but not required

### Hours & Format

**Fall and/or spring:** 15 weeks - 3-3 hours of lecture and 1-1 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON 144 Empirical Asset Pricing 4 Units

Terms offered: Spring 2024

This undergraduate elective is designed for undergraduates in Economics, Statistics, Mathematics, Data Science, and IEOR who are interested in financial economics and econometric methods as applied to financial data. After reviewing important econometric concepts, the course will discuss the short-run time series behavior of stock prices and present the evidence on short- and long-run predictability of stock returns. We will then consider cross-sectional models and static equilibrium theory, including the Capital Asset Pricing Model and Arbitrage Pricing Theory, and intertemporal equilibrium models, including Arrow-Debreu pricing theory and the consumption-based CAPM. Finally, the course will introduce models of volatility and correlation.

### Rules & Requirements

**Prerequisites:** Students need a basic understanding of the principles of econometrics. Some exposure to probability and statistics is helpful. Required courses: Economics 140/141, or equivalent

### Hours & Format

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

**Summer:** 8 weeks - 8-8 hours of lecture per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON C147 Algorithmic Economics 4 Units

Terms offered: Spring 2025, Spring 2024

The class provides an introduction to algorithmic questions in economic design. The class will cover problems of public goods and social choice, as well as allocative questions and private consumption. The focus is on normative questions: From the perspective of social goals, these are efficiency, fairness, and equity. In terms of private goals, the focus is on revenue maximization. The course will cover voting, fair division, pricing and market mechanisms. There is an emphasis on the algorithmic questions that arise naturally in economic design.

### Rules & Requirements

**Prerequisites:** Students should be comfortable with formal mathematical proofs, and will be expected to write proofs on their own

### 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/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

**Also listed as:** COMPSCI C177

## ECON 148 Data Science for Economists 4 Units

Terms offered: Spring 2025, Summer 2024 First 6 Week Session, Spring 2024

This course will give the undergraduate student the basic computational building blocks needed to be a good consumer and producer of applied economics work. Students will work to acquire data through APIs, access census data, or download from replication repositories. The course will cover wrangling data, working with incomplete or unstructured data, joining and merging data, exploratory data analysis and data visualization. The course will cover many aspects of preparing data for econometric analysis. Practices around literate code, open science tools, reproducibility, and data management will also be covered.

### Rules & Requirements

**Prerequisites:** Data Science C8/Computer Science C8/Info C8/Statistics C8 or Statistics 20; familiarity with Python recommended

### Hours & Format

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

**Summer:** 6 weeks - 10 hours of lecture and 0 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Alternative to final exam.

## ECON 151 Labor Economics 4 Units

Terms offered: Spring 2024, Spring 2023, Summer 2022 First 6 Week Session

This course provides a general overview of labor markets primarily in the U.S., using the theoretical and empirical tools of modern economics. Topics include labor force participation, the allocation of time to market work, migration, labor demand and monopsony, investment in human capital like education and on-the-job training, race and gender and discrimination, labor unions, and unemployment. The course will also examine the impacts on work and well-being of government programs such as unemployment insurance, minimum wages, and a negative income tax like the modern earned income credit.

### Rules & Requirements

**Prerequisites:** 100A or 101A, or consent of instructor

**Credit Restrictions:** Students will receive no credit for ECON 151 after completing ECON 152. A deficient grade in ECON 151 may be removed by taking ECON 152.

### Hours & Format

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

### Summer:

6 weeks - 7.5 hours of lecture per week

8 weeks - 6 hours of lecture per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON 152 Wage Theory and Policy 4 Units

Terms offered: Spring 2025, Fall 2021, Spring 2020

This course focuses on theoretical and empirical analysis of wage and employment determination in the labor market. In addition, the role of public policy in affecting wage and employment outcomes in the U.S. labor market is examined. Topics include labor supply, labor demand, minimum wages, the economics of education and training, discrimination and the impact of antidiscrimination programs, changes in wage inequality over time, immigration, unions, unemployment, and poverty.

### Rules & Requirements

**Prerequisites:** 100A or 101A

**Credit Restrictions:** Students will receive no credit for ECON 152 after completing ECON 151. A deficient grade in ECON 152 may be removed by taking ECON 151.

### Hours & Format

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

**Summer:** 8 weeks - 6 hours of lecture and 0 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON 153 Labor Economics Seminar 4 Units

Terms offered: Fall 2015, Fall 2014, Fall 2006

Topics in labor economics. Seminar paper required.

### Rules & Requirements

**Prerequisites:** 140 or 141, and 151 or 152 and consent of instructor

### Hours & Format

**Fall and/or spring:** 15 weeks - 3 hours of seminar per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam not required.

## ECON 154 Economics of Discrimination 4 Units

Terms offered: Spring 2018, Spring 2016, Spring 2014

Starting from Becker's classic book on the economics of discrimination, this course will focus on issues of difference and discrimination associated with race, gender, or nation of birth, focusing particularly on credit and housing markets, education, and health care. The course looks carefully at the ways in which econometrics is used to address questions of discrimination.

### Rules & Requirements

**Prerequisites:** 140 or 141

### Hours & Format

**Fall and/or spring:** 15 weeks - 3 hours of seminar per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam not required.

## ECON 155 Urban Economics 3 Units

Terms offered: Fall 2024, Spring 2024, Spring 2023

Application of economic theory to urban problems. Topics covered include location theory, housing, transportation, and the fiscal problems of city government.

### Rules & Requirements

**Prerequisites:** 100A or 101A

### Hours & Format

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

### Summer:

6 weeks - 8 hours of lecture per week

8 weeks - 6 hours of lecture per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON 155A Cities and Public Policy 4 Units

Terms offered: Fall 2024, Fall 2022, Spring 2022

This is an advanced course considering the economic forces governing cities and a host of attendant public policy issues. Topics covered will include theory and evidence on sources of agglomeration economies and urban growth, housing markets, segregation, neighborhood effects, and place-based policies.

### Rules & Requirements

**Prerequisites:** Intermediate microeconomics (Economics 100A or Economics 101A) and econometrics (Economics 140 or Economics 141)

**Credit Restrictions:** Students will receive no credit for Economics 155A after taking Economics 155.

### 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/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

**Instructor:** Kline

## ECON 157 Health Economics 4 Units

Terms offered: Summer 2025 First 6 Week Session, Spring 2025, Summer 2024 8 Week Session

An economic analysis of policies and institutions in the U.S. health care sector. Topics covered include the supply and demand for health services, conceptual and policy issues relating to the provision of health insurance, and economic analysis of efficient regulatory policies toward the health care sector.

### Rules & Requirements

**Prerequisites:** 100A or 101A

### Hours & Format

**Fall and/or spring:** 15 weeks - 3 hours of lecture and 0 hours of discussion per week

### Summer:

6 weeks - 8-8 hours of lecture and 0-1 hours of discussion per week

8 weeks - 6-6 hours of lecture and 0-2 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON 161 Economics of Transition: Eastern Europe 4 Units

Terms offered: Spring 2016, Spring 2015, Fall 2009

Economic behavior under socialism; socialism vs. capitalism. Transition challenges. Stylized facts of transition. Political economy of reform strategies. Liberalization and the macroeconomic environment. Privatization policies and enterprise restructuring. Legal reform, institutional change, and variation in economic performance across countries. Foreign trade and enlargement of the European Union to transition countries. The Washington consensus, transition, and the institutions of capitalism.

### Rules & Requirements

**Prerequisites:** 100A or 101A

### Hours & Format

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

**Summer:** 8 weeks - 6 hours of lecture per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON 162 The Chinese Economy 3 Units

Terms offered: Fall 2024, Summer 2024 First 6 Week Session, Fall 2023

The Chinese economy, its institutions, reform and transition to the market, and development.

### Rules & Requirements

**Prerequisites:** 100A-100B or 101A-101B

### Hours & Format

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

### Summer:

6 weeks - 7.5 hours of lecture per week

8 weeks - 5.5 hours of lecture per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON 165 Money and Banking 4 Units

Terms offered: Fall 2024, Spring 2024

This course explores money, financial institutions, markets, central banking, and the interactions between these topics. The aim of the course is to help students answer important questions like: what is money? What are banks? What are central banks and monetary policy? What are interest rates? What is crypto currency? What determines the price of goods and services? What the causes and consequences of financial crises?

### Rules & Requirements

**Prerequisites:** Econ 100B or 101B; and Econ 140 or 141 or EnvEcon/IAS C118

### 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/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON C171 Development Economics 4 Units

Terms offered: Fall 2024, Fall 2023, Summer 2023 8 Week Session, Fall 2022

This course covers theory and empirical evidence on the determinants of economic development and the global fight against poverty. The course aims to introduce students to modern empirical research methods that are being used to inform policy making in developing countries. Students also learn how to implement these tools themselves using real-world data sets and widely used statistical software for impact evaluation.

### Rules & Requirements

**Prerequisites:** EnvEcon 100 or Econ 100A or 101A; Econ 140 or 141 or EnvEcon/IAS C118

### Hours & Format

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

### Summer:

6 weeks - 8 hours of lecture and 2 hours of discussion per week

8 weeks - 6 hours of lecture and 2 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

**Also listed as:** ENVECON C151

## ECON N171 Economic Development 4 Units

Terms offered: Summer 2015 10 Week Session, Summer 2015 8 Week Session, Summer 2012 8 Week Session

Problems of underdevelopment and poverty, policy issues, and development strategy.

### Rules & Requirements

**Prerequisites:** 100A or 101A or Environmental Economics and Policy 100

### Hours & Format

**Summer:** 8 weeks - 8 hours of lecture and 0 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam not required.

## ECON 172 Case Studies in Economic Development 4 Units

Terms offered: Spring 2025, Spring 2023, Spring 2022

This course focuses on the process of economic development and growth from a theoretical and empirical perspective. The aim of the course is to provide an understanding of the patterns of socioeconomic development in a selected geographic region (e.g., Sub-Saharan Africa, Latin America, South Asia). The course covers trends in comparative global development, theories of economic growth, and the roles of public health, human capital, climate change, political institutions, and historical factors in shaping contemporary economic outcomes in low- and middle-income countries. Special emphasis is given to applying the econometric methods used to evaluate public policies and anti-poverty interventions.

### Rules & Requirements

**Prerequisites:** 100A

**Repeat rules:** Course may be repeated for credit with instructor consent.

### Hours & Format

**Fall and/or spring:** 15 weeks - 3-3 hours of lecture and 0-1 hours of discussion per week

**Summer:** 8 weeks - 6-6 hours of lecture and 0-2 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON 173 Economic Development Seminar 4 Units

Terms offered: Fall 2010, Fall 2009, Spring 2009

A seminar paper will be required.

### Rules & Requirements

**Prerequisites:** 171 or 172 and consent of instructor

### Hours & Format

**Fall and/or spring:** 15 weeks - 3 hours of seminar per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam not required.

## ECON 174 Global Poverty and Impact Evaluation 4 Units

Terms offered: Spring 2025, Fall 2024, Spring 2024

There are a countless number of potential policies and programs to address the causes and consequences of poverty. However, how should one determine which of these is actually effective in improving the lives of the poor? This course explores a variety of empirical tools to rigorously measure the impact of development programs. Through weekly case studies of field research, students will learn impact evaluation theory and methods, and apply them to concrete examples from the development literature.

### Rules & Requirements

**Prerequisites:** Econ 100A or 101A or 100B or 101B; and Econ 140 or 141 or EnvEcon/IAS C118

### 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/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

**Instructor:** Miguel

## ECON C175 Economic Demography 4 Units

Terms offered: Spring 2025, Spring 2024, Spring 2023

A general introduction to economic demography, addressing the following kinds of questions: What are the economic consequences of immigration to the U.S.? Will industrial nations be able to afford the health and pension costs of the aging populations? How has the size of the baby boom affected its economic well being? Why has fertility been high in Third World countries? In industrial countries, why is marriage postponed, divorce high, fertility so low, and extramarital fertility rising? What are the economic and environmental consequences of rapid population growth?

### Rules & Requirements

**Prerequisites:** Economics 1 or 2

### Hours & Format

**Fall and/or spring:** 15 weeks - 3-3 hours of lecture and 0-1 hours of discussion per week

### Summer:

6 weeks - 7.5-7.5 hours of lecture and 0-2.5 hours of discussion per week

8 weeks - 6-6 hours of lecture and 0-2 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

**Instructor:** Lee

**Formerly known as:** Demography C175, Economics C175

**Also listed as:** DEMOG C175

## ECON N175 Economic Demography 3 Units

Terms offered: Summer 2013 10 Week Session, Summer 2013 8 Week Session

A general introduction to economic demography, addressing the following kinds of questions: What are the economic consequences of immigration to the U.S.? Will industrial nations be able to afford the health and pension costs of the aging populations? How has the size of the baby boom affected its economic well being? Why has fertility been high in Third World countries? In industrial countries, why is marriage postponed, divorce high, fertility so low, and extramarital fertility rising? What are the economic and environmental consequences of rapid population growth?

### Rules & Requirements

**Prerequisites:** Economics 1 or 2

**Credit Restrictions:** Students will receive no credit for Economics N175 after taking Economics C175/Demography C175; Economics 175/Demography 175. A deficient grade in Economics C175/Demography C175 may be removed by taking Economics N175.

### Hours & Format

**Summer:** 8 weeks - 6 hours of lecture per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON C181 International Trade 4 Units

Terms offered: Fall 2024, Spring 2024, Fall 2023

The theory of international trade and its applications to tariff protection. This course is equivalent to UGBA 118; students will not receive credit for both courses.

### Rules & Requirements

**Prerequisites:** Economics100A-100B or Economics 101A-101B

**Credit Restrictions:** Students will receive no credit for ECON C181/ENVECON C181 after passing ECON 181, ECON N181 or UGBA 118. A deficient grade in ECON 181, or ECON N181 may be removed by taking ECON C181/ENVECON C181.

### Hours & Format

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

**Summer:** 8 weeks - 6 hours of lecture and 2 hours of discussion per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

**Also listed as:** ENVECON C181

## **ECON N181 International Trade 4 Units**

Terms offered: Summer 2018 First 6 Week Session, Summer 2017 First 6 Week Session, Summer 2016 First 6 Week Session

The theory of international trade and its applications to tariff protection.

### **Rules & Requirements**

**Prerequisites:** Economics 100A-100B or Economics 101A-101B

**Credit Restrictions:** Students will receive no credit for Economics N181 after passing Economics 181 or Economics C181/Environmental Economics C181. A deficient grade in Economics 181, Economics C181/Environment Economics C181 may be removed by taking Economics N181.

### **Hours & Format**

#### **Summer:**

6 weeks - 10 hours of lecture per week

8 weeks - 8 hours of lecture per week

### **Additional Details**

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam not required.

## **ECON 182 International Monetary Economics 4 Units**

Terms offered: Fall 2021, Spring 2021, Fall 2020

The balance of payments, the determination of the trade balance and income under fixed and floating exchange rates, money and prices in open economies, the internationalization of financial markets and its implications, international macroeconomic interdependence, capital flows, and the determination of the exchange rate.

### **Rules & Requirements**

**Prerequisites:** 100A-100B or 101A-101B

### **Hours & Format**

**Fall and/or spring:** 15 weeks - 3 hours of lecture and 0-1 hours of discussion per week

**Summer:** 8 weeks - 7.5 hours of lecture per week

### **Additional Details**

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## **ECON 183 International Economic Seminar 4 Units**

Terms offered: Spring 2025, Spring 2022, Spring 2021

This small seminar course is designed to introduce students to a set of current policy controversies in international economics and provide an opportunity for them to apply to these policy debates the analytical tools encountered in previous courses (such as Economics 100B or 101B).

Students will make a class presentation, write several short papers, as well as submitting a final paper.

### **Rules & Requirements**

**Prerequisites:** Economics 100B or 101B or consent of instructor

### **Hours & Format**

**Fall and/or spring:** 15 weeks - 3 hours of seminar per week

### **Additional Details**

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Alternative to final exam.

## ECON C184 International Environmental Economics 4 Units

Terms offered: Spring 2025, Fall 2023, Fall 2022

This course studies the following question: How should policymakers and scholars design and analyze environmental policy in a globalized world where much economic activity and pollution crosses political borders?

The course addresses issues including climate change, air and water pollution, deforestation, species extinction, and others. The course also analyzes a variety of ways that countries and regions interact, including trade, foreign direct investment, outsourcing, international agreements and treaties, and others. The course also teaches a range of tools used to analyze these issues, including life-cycle (also called environmental footprint) analysis, simple econometrics, environmental market design, non-market valuation, and the data.

### Objectives & Outcomes

**Course Objectives:** 1. Develop a strong grasp of the main debates and ideas involving international environmental economics

2. Learn to interpret, apply, and critically assess methods used to study international environmental economic issues
3. Build skills in reading basic economic writing involving these issues, including an understanding of their evidence and conclusions, and ability to critically evaluate the basis for these conclusion

### Student Learning Outcomes: 1.

A strong grasp of the main scholarly debates and ideas involving international environmental economics

2.

The ability to interpret and critically assess methods used to study international environmental economic issues, including:

life-cycle analysis and input-output tables;

simple econometric estimates;

the design of environmental policy;

non-market valuation;

and the use of remote sensing (satellite) data

The ability to read basic empirical environmental economics papers, understand their evidence and conclusions, and critically evaluate the basis for these conclusions

### Rules & Requirements

**Prerequisites:** ENVECON 100, ECON 101a, ECON 100a or equivalent

### 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/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

**Instructor:** Shapiro

**Also listed as:** ENVECON C132

## ECON C188 Advanced Topics in International Economics 3 Units

Terms offered: Fall 2024

Globalization and its consequences have interested economists and the public since Adam Smith and David Ricardo. However, the nature of the global economy has changed dramatically over time. Paraphrasing Ricardo's famous example, "it's not wine for cloth anymore." This course will introduce a modern view on international trade focusing on firms as vehicles of trade. We will study key theoretical models of New Trade Theory and apply them to understand the consequences of a range of trade policies from the recent past, such the NAFTA agreement and China's entry to the WTO. We will combine theoretical models, empirical econometric tools, and data to understand the impacts of trade and offshoring on trade flows, aggregate welfare, and inequality

### Rules & Requirements

**Prerequisites:** • Microeconomics (Envecon100, Econ100 or Econ101A): required • Econometrics (EnveconC118, Econ140 or Econ141): required but can be taken concurrently • International Trade (Envecon/EconC181): optional. This course is complementary to C181; a few extra readings will be provided to students who have not taken that class; • Students should have a basic knowledge of calculus (roughly at the level of Mathematics 16A and 16B) and be comfortable understanding mathematical arguments

### 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/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

**Instructor:** Borusyak

**Also listed as:** ENVECON C188

## ECON 191 Topics in Economic Research 4 Units

Terms offered: Spring 2025, Fall 2024, Spring 2024

This course discusses recent research and policy developments. The core objective is to expose students to different aspects of research in economics. A sequence of five different frontier research topics are studied in depth each semester. Each topic lasts three weeks, during which students will familiarize themselves with cutting-edge economic research and methodology. Students will then develop their own research ideas and write two medium-size research papers.

### Rules & Requirements

**Prerequisites:** 100A or 100B

### Hours & Format

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

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam not required.

## ECON H195A Senior Honors Thesis 1 - 3 Units

Terms offered: Fall 2024, Fall 2023, Fall 2022

Preparation for writing a thesis, finding and organizing a topic, gathering data and getting started. H195A is not prerequisite to H195B.

### Rules & Requirements

**Prerequisites:** Senior honors candidates only (students with major GPA of 3.50 or better or permission of instructor.)

### Hours & Format

**Fall and/or spring:** 15 weeks - 1-3 hours of independent study per week

### Summer:

6 weeks - 1-5 hours of independent study per week

8 weeks - 1-4 hours of independent study per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Offered for pass/not pass grade only. Final exam not required.

## ECON H195AS Senior Honors Thesis 1 - 3 Units

Terms offered: Prior to 2007

Preparation and writing of an honors thesis under the supervision of a member of the faculty. H195AS is not a prerequisite to H195BS.

### Rules & Requirements

**Prerequisites:** Senior honors candidates only, with major GPA of 3.5 or better. Permission of undergraduate adviser

### Hours & Format

**Summer:** 15 weeks - 1-3 hours of independent study per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Offered for pass/not pass grade only. Final exam required.

## ECON H195B Senior Honors Thesis 1 - 3 Units

Terms offered: Spring 2025, Spring 2024, Spring 2023

Writing a thesis under the supervision of a faculty member. Applications and details through the departmental undergraduate office. H195A is not prerequisite to H195B.

### Rules & Requirements

**Prerequisites:** Senior honors candidates only (students with major GPA of 3.50 or better or permission of undergraduate adviser)

### Hours & Format

**Fall and/or spring:** 15 weeks - 1-3 hours of independent study per week

### Summer:

6 weeks - 1-5 hours of independent study per week

8 weeks - 1-4 hours of independent study per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam not required.

## ECON H195BS Senior Honors Thesis 1 - 3 Units

Terms offered: Prior to 2007

Preparation and writing of an honors thesis under the supervision of a member of the faculty.

### Rules & Requirements

**Prerequisites:** Senior honors candidates only, with major GPA of 3.5 or better. Permission of undergraduate adviser

### Hours & Format

**Summer:** 15 weeks - 1-3 hours of seminar per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON 196 Special Topics in Economics 1 - 4 Units

Terms offered: Spring 2024, Fall 2023, Spring 2019

Study in various fields of economics. Topics will vary from semester to semester and will be announced at the beginning of each semester.

### Rules & Requirements

**Prerequisites:** Upper division standing or consent of instructor

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

### Hours & Format

**Fall and/or spring:** 15 weeks - 1-4 hours of lecture per week

### Summer:

6 weeks - 2.5-10 hours of lecture per week

8 weeks - 1.5-7.5 hours of lecture per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Letter grade. Final exam required.

## ECON 197 Field Studies 1 - 4 Units

Terms offered: Spring 2025, Fall 2024, Summer 2024 8 Week Session

Written proposal must be approved by Department Chair. Supervised field studies in economics. Projects may be initiated by the students.

### Rules & Requirements

**Prerequisites:** Upper-division standing

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

### Hours & Format

**Fall and/or spring:** 15 weeks - 1-4 hours of independent study per week

### Summer:

6 weeks - 1-5 hours of independent study per week

8 weeks - 1-4 hours of independent study per week

10 weeks - 1.5-6 hours of independent study per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Offered for pass/not pass grade only. Final exam not required.

## ECON 198 Directed Group Study 1 - 4 Units

Terms offered: Spring 2025, Fall 2024, Spring 2024

Written proposal must be approved by Department Chair. Seminars for the group study of selected topics, which will vary from year to year. Topics may be initiated by students.

### Rules & Requirements

**Prerequisites:** Upper-division standing and consent of instructor

**Credit Restrictions:** Enrollment is restricted; see the Introduction to Courses and Curricula section of this catalog.

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

### Hours & Format

**Fall and/or spring:** 15 weeks - 1-4 hours of directed group study per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Offered for pass/not pass grade only. Final exam not required.

## ECON 199 Supervised Independent Study and Research 1 - 4 Units

Terms offered: Spring 2025, Spring 2024, Summer 2023 8 Week Session

Written proposal must be approved by Department Chair. Enrollment is restricted.

### Rules & Requirements

**Prerequisites:** Consent of Instructor

**Credit Restrictions:** Enrollment is restricted; see the Introduction to Courses and Curricula section of this catalog.

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

### Hours & Format

**Fall and/or spring:** 15 weeks - 1-2 hours of independent study per week

### Summer:

6 weeks - 1-5 hours of independent study per week

8 weeks - 1-4 hours of independent study per week

10 weeks - 1.5-6 hours of independent study per week

### Additional Details

**Subject/Course Level:** Economics/Undergraduate

**Grading/Final exam status:** Offered for pass/not pass grade only. Final exam not required.