

Demography

Minor

The undergraduate minor in Demography provides an opportunity to combine a traditional major, typically in one of the social sciences, with specialized training in population studies.

Although there is no undergraduate major in Demography, seniors may take graduate courses with the consent of the instructor.

Declaring the Minor

For information on how to declare the minor, please contact the department.

Students who have a strong interest in an area of study outside their major often decide to complete a minor program. These programs have set requirements.

General Guidelines

1. All minors must be declared before the first day of classes in your Expected Graduation Term (EGT). For summer graduates, minors must be declared prior to the first day of Summer Session A.
2. All upper-division courses must be taken for a letter grade.
3. A minimum of three of the upper-division courses taken to fulfill the minor requirements must be completed at UC Berkeley.
4. A minimum grade point average (GPA) of 2.0 is required in the upper-division courses to fulfill the minor requirements.
5. Courses used to fulfill the minor requirements may be applied toward the Seven-Course Breadth requirement, for Letters & Science students.
6. No more than one upper division course may be used to simultaneously fulfill requirements for a student's major and minor programs.
7. All minor requirements must be completed prior to the last day of finals during the semester in which the student plans to graduate. If students cannot finish all courses required for the minor by that time, they should see a College of Letters & Science adviser.
8. All minor requirements must be completed within the unit ceiling. (For further information regarding the unit ceiling, please see the College Requirements tab.)

Requirements

Core Courses

DEMOG 110 Introduction to Population Analysis [3] ¹
 DEMOG/ Sex, Death, and Data [4] ¹
 SOCIOL C126

DEMOG/ Economic Demography [4] ¹
 ECON C175

Statistical Methods or Vital Statistics

Select one of the following: ²

ECON 140 Econometrics [4]

ECON 141 Econometrics (Quantitative) [4]

PSYCH 101 Research and Data Analysis in Psychology [4]

PB HLTH 141 Course Not Available [5]

PB HLTH 142 Introduction to Probability and Statistics in Biology and Public Health [4]

SOCIOL 106 Quantitative Sociological Methods [4]

STAT C131A Statistical Methods for Data Science 4

STAT 135 Concepts of Statistics [4]

STAT C140 Probability for Data Science 4

Social Science Dealing with Demographic Factors

Select one of the following: ³

DEMOG Family and Household in Comparative Perspective
 C165/ [3]
 SOCIOL C184

DEMOG 180 Social Networks [4]

ECON 155 Urban Economics [3]

ECON 157 Health Economics [4]

ECON C171/ Development Economics [4]
 ENVECON C175

ECON N171 Economic Development [4]

HISTORY 137/Immigrants and Immigration as U.S. History [4]

PB HLTH 181 Poverty and Population [3]

SOCIOL 111 Sociology of the Family [4]

SOCIOL 111ACSociology of the Family [4]

SOCIOL 130 Social Inequalities [4]

SOCIOL 130ACSocial Inequalities: American Cultures [4]

- ¹ No substitutions for this course are allowed, unless the course is not being offered in the current academic year. In that case, written approval of a valid substitute course must be obtained and submitted along with the L&S Minor Completion Form.
- ² Similar upper division courses of at least three units may be substituted with consent of the department.
- ³ Similar upper division courses of at least three units may be substituted with consent of the department.

Demography

DEMOG 5 Fundamentals of Population Science 3 Units

Terms offered: Summer 2025 Second 6 Week Session, Summer 2024 Second 6 Week Session, Summer 2019 Second 6 Week Session
This course provides an accessible introduction to the social science of demography. The course is organized around cases in which population issues raise policy or ethical dilemmas (example: China's one child policy). Through these cases, students will learn how demographers use models and data to acquire knowledge about population. Throughout the course, students will also learn to read, interpret, evaluate, and produce tabular and graphical representations of population data.

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

10 weeks - 4.5-4.5 hours of lecture and 0-1.5 hours of discussion per week

Additional Details

Subject/Course Level: Demography/Undergraduate

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

Instructor: Johnson-Hanks

DEMOG 88 Immigration: What do the data tell us? 2 Units

Terms offered: Fall 2019, Fall 2018, Fall 2017

This course will cover the small but important part of the rich history human migration that deals with the population of the United States--focusing on the 20th and 21st Centuries. We will use the tools of DS8 to answer specific questions that relate to the themes of this course:

- (1) Why do people migrate?
- (2) Is immigration good or bad for receiving (and sending) countries?
- (3) How do immigrants adapt and how do societies change in response?

In addition to scientific questions, this course will also address the demographic and political history of immigration in the US -- an understanding of which is crucial for understanding both the broad contours of US history and the particular situation in which we find ourselves today.

Objectives & Outcomes

Student Learning Outcomes: This course will enhance the experience of DS8 by challenging students to use the tools of DS8 to address current questions with real data. By accessing and using much larger and messier datasets than are used in the main course, students will gain technical skills as well as confidence in their ability to use data to answer questions.

Rules & Requirements

Prerequisites: Prerequisites and Restrictions (if any): Corequisite or Prerequisite: Foundations of Data Science (COMPSCI C8 / INFO C8 / STAT C8). This course is a Data Science connector course and is meant to be taken concurrent with or after COMPSCI C8/ INFO C8 / STAT C8. Students may take more than one Data Science connector course if they wish, concurrent with or after having taken the C8 course

Hours & Format

Fall and/or spring: 15 weeks - 1-2 hours of lecture, 0-1 hours of discussion, and 0-1 hours of laboratory per week

Additional Details

Subject/Course Level: Demography/Undergraduate

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

Instructor: Carl Mason

DEMOG 98 Directed Group Study 1 - 4 Units

Terms offered: Fall 2017, Spring 2017, Fall 2016

Undergraduate research by small groups.

Rules & Requirements

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

Hours & Format

Fall and/or spring: 15 weeks - 1-3 hours of tutorial per week

Additional Details

Subject/Course Level: Demography/Undergraduate

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

DEMOG 110 Introduction to Population Analysis 3 Units

Terms offered: Fall 2025, Fall 2024, Summer 2024 Second 6 Week Session

Measures and methods of Demography. Life tables, fertility and nuptiality measures, age pyramids, population projection, measures of fertility control.

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

10 weeks - 4.5-4.5 hours of lecture and 0-1.5 hours of discussion per week

Additional Details

Subject/Course Level: Demography/Undergraduate

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

Instructor: Wachter

DEMOG C126 Sex, Death, and Data 4 Units

Terms offered: Fall 2025, Fall 2024, Fall 2023

Introduction to population issues and the field of demography, with emphasis on historical patterns of population growth and change during the industrial era. Topics covered include the demographic transition, resource issues, economic development, the environment, population control, family planning, birth control, family and gender, aging, intergenerational transfers, and international migration.

Rules & Requirements

Prerequisites: 1 or 3 or 3AC or consent of instructor

Hours & Format

Fall and/or spring: 15 weeks - 3-3 hours of lecture and 0-2 hours of discussion per week

Additional Details

Subject/Course Level: Demography/Undergraduate

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

Also listed as: SOCIOL C126

DEMOG 130 Demography of Deaths, Diseases, and Disasters 4 Units

Terms offered: Prior to 2007

Fundamentals of demographic analysis of health and mortality with a special focus on global public health challenges including those induced by climate change. Class will focus on essential concepts from demography and public health, global and historical shifts in mortality and morbidity patterns, and the determinants of health and mortality over the life course, including environmental determinants. Students' will develop their own research project related to health and mortality using real-world demographic data. Students will learn to interpret, construct, and calculate common demographic and public health indicators, and will develop a basic toolkit for analyzing health and mortality data.

Rules & Requirements

Prerequisites: Introductory statistics course and some experience with a programming language (preferably R), or consent of the instructor

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: Demography/Undergraduate

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

Instructor: Mahmud

DEMOG 145AC The American Immigrant Experience 4 Units

Terms offered: Spring 2015, Spring 2014, Spring 2013

The history of the United States is the history of migration. The course covers the evolution of the American population from about 20,000 BC with the goal of understanding the interdependent roles of history and demography. As an American cultures class, special attention is given to the experiences of 18th- and 19th-century African and European immigrants and 20th- and 21st-century Asian and Latin American immigrants. Two substantial laboratory assignments; facility with a spreadsheet program is assumed.

Hours & Format

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

Additional Details

Subject/Course Level: Demography/Undergraduate

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

Instructor: Mason

Also listed as: HISTORY C139B

DEMOG 160 Special Topics in Demography 3 Units

Terms offered: Spring 2020, Fall 2018, Fall 2017

Special topics in demography. Topics may include the demography of specific world regions, race and ethnicity, population and policy, and population and environment and similar specialized or new topics in the field of demography will be covered.

Rules & Requirements

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

Hours & Format

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

Additional Details

Subject/Course Level: Demography/Undergraduate

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

DEMOG N160 Summer Special Topics in Demography 2 Units

Terms offered: Prior to 2007

Special topics in demography. Topics may include any subject in demography and may be specific world regions, race and ethnicity, population and policy, and population and environment and similar specialized or new topics in the field of demography will be covered. Designed primarily to permit instructors to teach a current relevant topic that may be focused and specialized or a topic with broad appeal. Topics change each summer.

Rules & Requirements

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

Hours & Format

Summer: 6 weeks - 4 hours of lecture per week

Additional Details

Subject/Course Level: Demography/Undergraduate

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

DEMOG 161 Population Apocalypse in Film and Science 3 Units

Terms offered: Fall 2015, Spring 2015

Despite our astonishing demographic success as a species, humans are haunted by the idea of apocalyptic demise. This course explores scientific and cultural narratives of population catastrophe particularly as presented in film. Noah's flood; nuclear annihilation; overpopulation; and climate change all raise the question: Does human nature carry within it the seeds of our inevitable destruction? In this course, we will grapple with both the science and the art in which this question is embedded.

Hours & Format

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

Additional Details

Subject/Course Level: Demography/Undergraduate

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

Instructors: Mason, Goldstein

DEMOG C164 Impact of Government Policies on Poor Children and Families 4 Units

Terms offered: Spring 2007

Examination of the impact of policies of state intervention and public benefit programs on poor children and families. Introduction to child and family policy, and study of specific issue areas, such as income transfer programs, housing, health care, and child abuse.

Rules & Requirements

Credit Restrictions: This course may be applied to the Demography major.

Hours & Format

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

Additional Details

Subject/Course Level: Demography/Undergraduate

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

Instructor: Mauldon

Also listed as: PUB POL C164

DEMOG C165 Family and Household in Comparative Perspective 3 Units

Terms offered: Spring 2012, Fall 2008, Spring 2005

How are families and households organized around the world? Which aspects of household and family vary, and which are constant? What are the relationships between household and family on the one hand and the political, economic, or broad social patterns on the other? This course examines all of these questions, taking historical and contemporary examples from Africa, Asia, Europe, and the Americas.

Rules & Requirements

Prerequisites: Sociology 1, 3, 3AC or consent of instructor

Hours & Format

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

Additional Details

Subject/Course Level: Demography/Undergraduate

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

Also listed as: SOCIOL C184

DEMOG 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: Demography/Undergraduate

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

Instructor: Lee

Formerly known as: Demography C175, Economics C175

Also listed as: ECON C175

DEMOG 180 Social Networks 4 Units

Terms offered: Fall 2025, Fall 2024, Summer 2024 Second 6 Week Session

The science of social networks focuses on measuring, modeling, and understanding the different ways that people are connected to one another. We will use a broad toolkit of theories and methods drawn from the social, natural, and mathematical sciences to learn what a social network is, to understand how to work with social network data, and to illustrate some of the ways that social networks can be useful in theory and in practice. We will see that network ideas are powerful enough to be used everywhere from UNAIDS, where network models help epidemiologists prevent the spread of HIV, to Silicon Valley, where data scientists use network ideas to build products that enable people all across the globe to connect with one another.

Rules & Requirements

Prerequisites: Suggested: Introduction to Statistics (Computer Science/Information/Statistics C8 or "Data 8"), Pre-calculus (Mathematics 32), Python, or consent of instructor

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

10 weeks - 4.5-4.5 hours of lecture and 0-1.5 hours of discussion per week

Additional Details

Subject/Course Level: Demography/Undergraduate

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

Instructor: Feehan

DEMOG 198 Directed Group Study 1 - 4 Units

Terms offered: Fall 2025, Fall 2024, Fall 2023

Undergraduate research by small groups. Enrollment is restricted by regulations governing 198 courses.

Rules & Requirements

Prerequisites: 60 units; good academic standing

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

Hours & Format

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

Summer: 8 weeks - 1.5-7.5 hours of directed group study per week

Additional Details

Subject/Course Level: Demography/Undergraduate

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

DEMOG 199 Supervised Independent Study 1 - 4 Units

Terms offered: Fall 2019, Summer 2019, Fall 2018

Supervised independent study and research.

Rules & Requirements

Prerequisites: Consent of instructor

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

Hours & Format

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

Summer: 8 weeks - 1-3 hours of independent study per week

Additional Details

Subject/Course Level: Demography/Undergraduate

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