

# 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 and are noted officially on the transcript in the memoranda section, but are not noted on diplomas.

## General Guidelines

1. All minors must be declared no later than one semester before a student's Expected Graduation Term (EGT). If the semester before EGT is fall or spring, the deadline is the last day of RRR week. If the semester before EGT is summer, the deadline is the final Friday of Summer Sessions. To declare a minor, contact the department advisor for information on requirements, and the declaration process.
2. All courses taken to fulfill the minor requirements below must be taken for graded credit.
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 for courses used 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 you plan to graduate. If you cannot finish all courses required for the minor by that time, please 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] <sup>1</sup>  
 DEMOG/  
 SOCIOL C126 Sex, Death, and Data [4] <sup>1</sup>

DEMOG/  
 ECON C175 Economic Demography [4] <sup>1</sup>

### Statistical Methods or Vital Statistics

Select one of the following: <sup>2</sup>

ECON 140 Econometrics [4]

ECON 141	Econometrics (Math Intensive) [4]	
PSYCH 101	Research and Data Analysis in Psychology [4]	
PB HLTH 141	Introduction to Biostatistics [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: <sup>3</sup>

DEMOG C165/ SOCIOL C184	Family and Household in Comparative Perspective [3]	
DEMOG 180	Social Networks [4]	
ECON 155	Urban Economics [3]	
ECON 157	Health Economics [4]	
ECON C171/ ENVECON C184	Development Economics [4]	
ECON N171	Economic Development [4]	
HISTORY 137A	Immigrants and Immigration as U.S. History [4]	
PB HLTH 181	Poverty and Population [3]	
SOCIOL 111	Sociology of the Family [4]	
SOCIOL 111AC	Sociology of the Family [4]	
SOCIOL 130	Social Inequalities [4]	
SOCIOL 130AC	Social Inequalities: American Cultures [4]	

- <sup>1</sup> 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.
- <sup>2</sup> Similar upper division courses of at least three units may be substituted with consent of the department.
- <sup>3</sup> Similar upper division courses of at least three units may be substituted with consent of the department.

## Demography

Expand all course descriptions [+] Collapse all course descriptions [-]

## DEMOG 5 Fundamentals of Population Science 3 Units

Terms offered: Summer 2019 Second 6 Week Session, Summer 2018 Second 6 Week Session, Fall 2011

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.

Fundamentals of Population Science: Read More [+]

### 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

Fundamentals of Population Science: Read Less [-]

## 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 of 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.

Immigration: What do the data tell us?: Read More [+]

### 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

Immigration: What do the data tell us?: Read Less [-]

## DEMOG 98 Directed Group Study 1 - 4 Units

Terms offered: Fall 2017, Spring 2017, Fall 2016

Undergraduate research by small groups.

Directed Group Study: Read More [+]

### 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.

Directed Group Study: Read Less [-]

## DEMOG 110 Introduction to Population Analysis 3 Units

Terms offered: Fall 2022, Fall 2021, Fall 2020

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

Introduction to Population Analysis: Read More [+]

### 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

Introduction to Population Analysis: Read Less [-]

## DEMOG C126 Sex, Death, and Data 4 Units

Terms offered: Fall 2021, Fall 2020, Fall 2019

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.

Sex, Death, and Data: Read More [+]

### 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

Sex, Death, and Data: Read Less [-]

## 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.

Demography of Deaths, Diseases, and Disasters: Read More [+]

### 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

Demography of Deaths, Diseases, and Disasters: Read Less [-]

## 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.

The American Immigrant Experience: Read More [+]

### 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

The American Immigrant Experience: Read Less [-]

## 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 similiar specialized or new topics in the field of demography will be covered.

Special Topics in Demography: Read More [+]

### 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.

Special Topics in Demography: Read Less [-]

## 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.

Summer Special Topics in Demography: Read More [+]

### 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.

Summer Special Topics in Demography: Read Less [-]

## 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.

Population Apocalypse in Film and Science: Read More [+]

### 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

Population Apocalypse in Film and Science: Read Less [-]

## 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.

Impact of Government Policies on Poor Children and Families: Read More [+]

### 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

Impact of Government Policies on Poor Children and Families: Read Less [-]

## 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.

Family and Household in Comparative Perspective: Read More [+]

### 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

Family and Household in Comparative Perspective: Read Less [-]

## DEMOG C175 Economic Demography 4 Units

Terms offered: Spring 2022, Spring 2021, Spring 2020

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? Economic Demography: Read More [+]

### 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

Economic Demography: Read Less [-]

## DEMOG 180 Social Networks 4 Units

Terms offered: Fall 2022, Fall 2021, Fall 2020

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.

Social Networks: Read More [+]

### 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

Social Networks: Read Less [-]

## DEMOG 198 Directed Group Study 1 - 4 Units

Terms offered: Fall 2022, Fall 2021, Fall 2020

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

Directed Group Study: Read More [+]

### 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.

Directed Group Study: Read Less [-]

## DEMOG 199 Supervised Independent Study 1 - 4 Units

Terms offered: Fall 2019, Summer 2019, Fall 2018

Supervised independent study and research.

Supervised Independent Study: Read More [+]

### Rules & Requirements

**Prerequisites:** Consent of instructor

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

### Hours & Format

**Fall and/or spring:** 15 weeks - 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.

Supervised Independent Study: Read Less [-]