

# Demography

## Overview

The Department of Demography offers an interdisciplinary training program leading to the MA and PhD in demography. Demography is the systematic study of human populations, a topic central to many pressing policy issues such as the economic development of Third World countries, population aging, the environment, health and mortality, family and household change, immigration, and ethnicity. Demography also has strong intellectual and institutional ties to other fields such as sociology, economics, social history, anthropology, biology, public health, and statistics.

Faculty in the Demography Department also participate in the Graduate Group in Sociology and Demography (<http://guide.berkeley.edu/archive/2014-15/graduate/schools-departments-graduate-groups/sociology-demography>), which administers a PhD in Sociology and Demography (<http://guide.berkeley.edu/archive/2014-15/graduate/schools-departments-graduate-groups/sociology-demography>).

There is no undergraduate major in Demography, but the Department offers an undergraduate minor in Demography. Seniors may take graduate courses with the consent of the instructor.

## Facilities and Library

Training and research explore anthropological, economic, historical, mathematical, statistical, and social aspects of demography. Computer applications, including exploratory statistical analysis and micro-simulation techniques are strongly emphasized. The Department has advanced computing facilities consisting of state-of-the-art UNIX workstations and servers, networked PCs, and access to IBM mainframe services. Additionally, the Department has its own non-circulating library, the Allan Sharlin Memorial Library (<http://www.demog.berkeley.edu/sharlin>), which hosts a wide collection of books and periodicals in the field of demography.

## Events and Colloquia

The Brown Bag (<http://www.demog.berkeley.edu/announcements/brownbag.shtml>) series is an opportunity for the campus demography community to present either works in progress or completed works in an informal setting. The lectures are hosted during the school year every Wednesday at noon in the Demography Conference Room.

The BACPOP (<http://www.demog.berkeley.edu/announcements/bacpop.shtml>) is a monthly seminar sponsored jointly by the Department of Demography and the Institute for International Studies (IIS) at UC Berkeley. Noted demographers and scholars from related fields make up the list of invited speakers to this seminar series, which brings together specialists interested in demography from the entire Bay Area including Stanford University and UC Davis. The seminar takes place the first Thursday of each month during the school year. After the presentations, those interested generally continue discussions over dinner at a nearby restaurant.

## Undergraduate Program

Demography (<http://guide.berkeley.edu/archive/2014-15/undergraduate/degree-programs/demography>): Minor

## Graduate Programs

Demography (<http://guide.berkeley.edu/archive/2014-15/graduate/degree-programs/demography>): MA, PhD

## Demography

DEMOG 5 Fundamentals of Population Science 3 Units

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 hours of lecture and 1 hour of discussion per week

**Additional Details**

**Subject/Course Level:** Demography/Undergraduate

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

**Instructor:** Johnson-Hanks

DEMOG 98 Directed Group Study 1 - 4 Units

Undergraduate research by small groups.

**Rules & Requirements**

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

**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

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 hours of lecture per week

**Additional Details**

**Subject/Course Level:** Demography/Undergraduate

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

**Instructor:** Wachter

**DEMOG C126 Social Consequences of Population Dynamics 4 Units**  
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 hours of lecture and 1 hour 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 145AC The American Immigrant Experience 4 Units**  
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 and 1 hour of laboratory 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**  
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. Course may be repeated for credit when topic changes.

**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 161 Population Apocalypse in Film and Science 3 Units**  
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**

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**  
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 3 Units**

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 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:** Demography/Undergraduate

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

**Instructor:** Lee

**Formerly known as:** 175

**Also listed as:** ECON C175

**DEMOG 198 Directed Group Study 1 - 4 Units**

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. Course may be repeated for credit when topic changes.

**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**

Supervised independent study and research.

**Rules & Requirements**

**Prerequisites:** Consent of instructor

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

**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.

**DEMOG 200 Fundamentals of Population Thought 4 Units**

This course offers an intensive introduction to the history of population thought in Europe and the United States through the close reading and contextualization of selected classic texts, including Graunt, Malthus, and Quetelet.

Required of graduate students in the M.A. or Ph.D. program in Demography.

**Rules & Requirements**

**Prerequisites:** Consent of instructor

**Hours & Format**

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

**Additional Details**

**Subject/Course Level:** Demography/Graduate

**Grading:** Letter grade.

**Instructor:** Johnson-Hanks

**DEMOG 210 Demographic Methods: Rates and Structures 4 Units**

Population models, multiple decrement life tables, hazard functions, stable population theory, projection matrices, projection programs, population waves, dual system estimation, computer-based exercises and simulations. Required course for Demography M.A. and Ph.D. students.

**Hours & Format**

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

**Additional Details**

**Subject/Course Level:** Demography/Graduate

**Grading:** Letter grade.

**Instructor:** Wachter

**DEMOG 211 Advanced Demographic Analysis 4 Units**

This course is designed to provide an overview of quantitative techniques commonly used in demography, sociology, economics, and other social sciences. Methods are described in both words and formulas, and students are encouraged to learn to move freely between verbal and mathematical representations of data.

**Rules & Requirements**

**Prerequisites:** 210, Population Studies 110, or consent of instructor

**Hours & Format**

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

**Additional Details**

**Subject/Course Level:** Demography/Graduate

**Grading:** Letter grade.

**Instructor:** Wilmoth

**DEMOG 213 Practical Computer Applications for Demographic Analysis 2 Units**

An introductory course for first year Demography graduate students in the use of the Demography laboratory. Covers Unix based tools for manipulating computer programs and data files, and the R, SPlus, and SAS statistical packages. The course introduces the proportional hazard model and methods of estimating it. The final project for this course is use of the 1995 Current Population Survey (fertility supplement) to compute Total Fertility Rates for the U.S.

**Hours & Format**

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

**Additional Details**

**Subject/Course Level:** Demography/Graduate

**Grading:** Offered for satisfactory/unsatisfactory grade only.

**Instructor:** Mason

**DEMOG 215 Current Research Topics in Demography 2 Units**

The goals of this course are 1) to familiarize graduate students with active research projects in Demography and 2) to improve skills in R and Stata. Topics covered include demographic micro-simulation with SOCSIM, the Human Mortality Database, stochastic simulation/forecasting, GIS for Demographers, and mortality forecasting. Two-thirds of class time will be spent in the computer laboratory. Students will present results.

**Rules & Requirements**

**Prerequisites:** 213

**Hours & Format**

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

**Additional Details**

**Subject/Course Level:** Demography/Graduate

**Grading:** Offered for satisfactory/unsatisfactory grade only.

**DEMOG 220 Human Fertility 4 Units**

This course offers a critical, graduate-level introduction to the social science of reproduction, drawing especially on models and theories from demography, sociology, and anthropology. Among the topics are parity specific control and the calculus of conscious choice, below-replacement fertility, and the political economy of stratified reproduction.

**Hours & Format**

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

**Additional Details**

**Subject/Course Level:** Demography/Graduate

**Grading:** Letter grade.

**Instructor:** Johnson-Hanks

**DEMOG 230 Human Mortality 4 Units**

Measurement of mortality by age and cause. Traditional, transitional, and modern mortality patterns in European and non-European areas. Current trends and differentials by age, sex, race, occupation and marital status. Consequences of mortality declines for fertility change and development.

**Rules & Requirements**

**Prerequisites:** 210 or consent of instructor

**Hours & Format**

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

**Additional Details**

**Subject/Course Level:** Demography/Graduate

**Grading:** Letter grade.

**Instructor:** Wilmoth

**DEMOG 240 Human Migration 2 Units**

Human populations analyzed from the stand point of their spatial distribution and movement. Special attention to rural-urban migration, metropolitan structure, inter-regional movement, and demographic aspects of land-use, the collection and analysis of emigration and immigration data and statistics, migration policies.

**Hours & Format**

**Fall and/or spring:** 7.5 weeks - 3 hours of lecture per week

**Additional Details**

**Subject/Course Level:** Demography/Graduate

**Grading:** Letter grade.

**DEMOG 260 Special Topics in Demography Seminar 1 - 4 Units**  
Special topics in demography, such as anthropological and evolutionary approaches, kinship and family structure, race and ethnicity, and similar specialized or new topics in the field of demography will be covered. Seminar will be offered according to student demand.

**Rules & Requirements**

**Prerequisites:** Consent of instructor

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

**Hours & Format**

**Fall and/or spring:**

6 weeks - 2.5-9.5 hours of seminar per week

8 weeks - 2-7 hours of seminar per week

10 weeks - 1.5-6 hours of seminar per week

15 weeks - 1-4 hours of seminar per week

**Additional Details**

**Subject/Course Level:** Demography/Graduate

**Grading:** Letter grade.

**DEMOG C275A Economic Demography 3 Units**

Economic consequences of demographic change in developing and developed countries including capital formation, labor markets, and intergenerational transfers. Economic determinants of fertility, mortality and migration.

**Hours & Format**

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

**Additional Details**

**Subject/Course Level:** Demography/Graduate

**Grading:** Letter grade.

**Instructor:** Lee

**Also listed as:** ECON C275A

**DEMOG 296 Advanced Research Techniques 4 Units**

Problems in data acquisition, analysis, and presentation of technical demographic research. Required of graduate students in the Ph.D. program in Demography.

**Rules & Requirements**

**Prerequisites:** 295 and consent of instructor

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

**Hours & Format**

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

**Additional Details**

**Subject/Course Level:** Demography/Graduate

**Grading:** Letter grade.

**DEMOG 298 Directed Reading 1 - 12 Units**

Intended to provide directed reading in subject matter not covered in available course offerings.

**Rules & Requirements**

**Prerequisites:** Consent of instructor

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

**Hours & Format**

**Fall and/or spring:** 15 weeks - 1-12 hours of independent study per week

**Additional Details**

**Subject/Course Level:** Demography/Graduate

**Grading:** Letter grade.

**DEMOG 299 Directed Research 1 - 12 Units**

Intended to provide supervision in the preparation of an original research paper or dissertation.

**Rules & Requirements**

**Prerequisites:** Consent of instructor

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

**Hours & Format**

**Fall and/or spring:** 15 weeks - 1-12 hours of independent study per week

**Summer:** 8 weeks - 1.5-22.5 hours of independent study per week

**Additional Details**

**Subject/Course Level:** Demography/Graduate

**Grading:** Letter grade.

**DEMOG 301 GSI Training 1 - 6 Units**

Course credit for experience gained in academic teaching through employment as a graduate student instructor.

**Rules & Requirements**

**Prerequisites:** Appointment as a graduate student instructor in department

**Hours & Format**

**Fall and/or spring:** 15 weeks - 1-6 hours of seminar per week

**Summer:** 8 weeks - 1-6 hours of seminar per week

**Additional Details**

**Subject/Course Level:** Demography/Professional course for teachers or prospective teachers

**Grading:** Offered for satisfactory/unsatisfactory grade only.

**DEMOG 601 Individual Study 1 - 8 Units**

Individual study, in consultation with the graduate adviser, intended for qualified students to do necessary work to prepare themselves for language examinations, and the comprehensive examination.

**Rules & Requirements**

**Prerequisites:** Graduate standing

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

**Hours & Format**

**Fall and/or spring:** 15 weeks - 1-8 hours of independent study per week

**Additional Details**

**Subject/Course Level:** Demography/Graduate examination preparation

**Grading:** Offered for satisfactory/unsatisfactory grade only.

**DEMOG 602 Individual Study for Doctoral Students 1 - 8 Units**

Individual study in consultation with the major field adviser, intended to provide an opportunity for qualified students to prepare themselves for the various examinations required of candidates for the Ph.D.

**Rules & Requirements**

**Prerequisites:** For qualified graduate students

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

**Hours & Format**

**Fall and/or spring:** 15 weeks - 1-8 hours of independent study per week

**Additional Details**

**Subject/Course Level:** Demography/Graduate examination preparation

**Grading:** Offered for satisfactory/unsatisfactory grade only.