

Demography (DEMOG)

Courses

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.

DEMOG 200 Fundamentals of Population Thought 4 Units

Terms offered: Spring 2025, Spring 2024, Spring 2023

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

Terms offered: Fall 2025, Fall 2024, Fall 2023

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

Terms offered: Spring 2014, Spring 2013, Spring 2012

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

Terms offered: Fall 2025, Fall 2024, Fall 2021

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

Terms offered: Fall 2010, Spring 2009, Spring 2008

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

Terms offered: Spring 2025, Spring 2018, Spring 2013

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

Terms offered: Spring 2015, Spring 2011, Spring 2009

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 C236 Aging: Economic and Demographic Aspects 2 Units

Terms offered: Spring 2006, Spring 2004, Spring 2002
Course considers demographic and economic aspects of population aging.

Hours & Format

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

Additional Details

Subject/Course Level: Demography/Graduate

Grading: Letter grade.

Instructor: Lee

Also listed as: ECON C275B

DEMOG 240 Human Migration 2 Units

Terms offered: Spring 2013, Spring 2011, Spring 2000
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

Terms offered: Fall 2025, Spring 2025, Fall 2024
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 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

Terms offered: Spring 2022, Spring 2019, Spring 2015
Economic consequences of demographic change in developing and developed countries including capital formation, labor markets, and intergenerational transfers. Economic determinants of fertility, mortality and migration.

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 C280 Social Networks 4 Units

Terms offered: Fall 2025, Fall 2023, Fall 2022
This course provides a broad introduction to the empirical and theoretical study of social networks. We will cover classic and contemporary studies, beginning with fundamental definitions and models, and then moving through a range of topics, including models of network formation and structure (homophily, foci, communities); dynamic processes on networks (contagion, influence, and disease models); collaborative networks; personal networks; online networks; and network sampling and data collection. The course material is intended to be of interest to students from a wide range of disciplinary backgrounds, including demography, sociology, statistics, computer science, and related fields.

Rules & Requirements

Credit Restrictions: Students who have taken DEMOG 260-001: SOCIAL NETWORKS in spring 2017 or DEMOG 260-001: SOCIAL NETWORKS in spring 2018 for credit may not receive credit for DEMOG C280 or SOCIOL C273N.

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: Feehan

Also listed as: SOCIOL C273N

DEMOG 296 Advanced Research Techniques 4 Units

Terms offered: Spring 2025, Fall 2023, Fall 2018

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 without restriction.

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

Terms offered: Fall 2025, Spring 2025, Fall 2024

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 without restriction.

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

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

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 without restriction.

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

Terms offered: Fall 2025, Fall 2024, Fall 2023

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

Terms offered: Fall 2025, Fall 2024, Fall 2023

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 without restriction.

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

Terms offered: Fall 2025, Spring 2025, Fall 2024

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 without restriction.

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.