

Sociology 830

Demography: Theory, Substance, Techniques, Part I

Fall 2008
M & W 9:00 - 10:15am
151 Hamilton Hall

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Course Website: <http://www.unc.edu/~ldpearce/soci830/>

Description: This is the first part of a two-course series serving as a graduate-level introduction to the field of demography. This first course covers the foundational theories, concepts, measures, and tools used to study demographic topics including population dynamics relating to mortality, fertility, family demography, and the environment. While learning key demographic techniques for studying these topics, students will also read and discuss key theoretical and practical contributions in these fields. Classes will be a mix of lecture, discussion, and hands-on computations, depending on the topic of the day.

Reading Materials:

- Preston, Heuveline, and Guillot. 2001. *Demography: Measuring and Modeling Population Processes*. ISBN 1557864519.
- Other required readings are available on the course website or through electronic journal databases, as indicated on the reading list.

Requirements: A student's performance in this course is based on four criteria: class participation, reading notes to be turned in every class day, four homework assignments, and a comprehensive final exam.

1. *Class Participation.* All students are expected to actively and thoughtfully engage in class discussions.
2. *Reading Notes.* Students are to turn in written notes to questions posted on the course website applying to each assigned reading. Some weeks, answers will be in the form of formulas or computations. Some weeks, answers will be in the

form of thoughtful responses to substantive questions. Class lecture and discussion will focus on these questions and all students should have their notes complete prior to class. Notes will be graded on a ✓+, ✓, and ✓- scale.

3. *Homework Assignments.* Throughout the course of this class, four assignments designed to expose students to demographic data sources and fundamental calculations will be given and collected on the following schedule:

Date Assigned	Topic	Due Date
Sept 10	Rates & Probabilities	Sept 15
Sept 17	Life Tables	Sep 24
Oct 20	Fertility	Oct 27
Nov 19	Family Demography	Nov 26

4. *Final Exam.* Students will be given a take-home final exam covering the demographic theory, substance, and techniques covered in this course. The exam will be emailed to students on Wed, Dec 8th at 9am and will be due back via email or in Dr. Pearce's mailbox (Hamilton Hall or CPC) by Dec 9th at 4pm. Please mark your calendars now and report any scheduling conflicts as soon as you are aware of them.

Grading: Final grades will be equally based on a student's *participation* in class, the regularity and thoughtfulness of *reading notes*, the score on *homework assignments*, and on the *final exam* grade. Students excelling at all four components of this seminar will receive Hs (usually only a couple students achieve this grade, but it can vary). Students showing satisfactory mastery on all four levels will receive Ps (normally the modal category). Those who consistently perform less than satisfactorily will receive Ls (rare, but possible), and those who give little to no effort will receive Fs (even more rare, but also possible).

Course Schedule

Wed, Aug 20: Introduction & Overview

Readings

- McFalls, Joseph A., Jr. 2003. "Population: A Lively Introduction, 4th Edition." *Population Bulletin* 58(4).

Mon, Aug 25: Defining Demography

Readings

- Crimmins, Eileen M. 1993. "Demography: The Past 30 Years, the Present, and the Future." *Demography* 30(4):579-591.
- Xie, Yu. 2000. "Demography: Past, Present, and Future." *Journal of the American Statistical Association* 95:670-673.

Wed, Aug 27: Sources of Data

Readings

- Bryan, Thomas. 2004. "Chapter 2: Basic Sources of Statistics." Pp. 9-41 in J. S. Siegel and D. A. Swanson (eds.), *The Methods and Materials of Demography, Second Edition*. San Diego, CA: Elsevier Academic Press.
- Bryan, Thomas and Robert Heuser. "Chapter 3: Collection and Processing of Demography Data." Pp. 43-63 in J. S. Siegel and D. A. Swanson (eds.), *The Methods and Materials of Demography, Second Edition*. San Diego, CA: Elsevier Academic Press.
- Fricke, Tom. 2003. "Culture and Causality: An Anthropological Comment." *Population and Development Review* 29(3):470-479.

Mon, Sep 1: Labor Day–NO CLASS

Wed, Sep 3: Data Quality

Readings

- Robinson, J. Gregory, Kirsten K. West, and Arjun Adlakha. 2002. "Coverage of the Population in Census 2000: Results from Demographic Analysis." *Population Research and Policy Review* 21:19-38.
- Prewitt, Kenneth. 2005. "Politics and Science in Census Taking." Pp. 3-48 in Reynolds Farley and John Haaga, eds., *The American People: Census 2000*. New York: Russell Sage Foundation.

Mon, Sep 8: Foundational Concepts and Measures

Readings

- *Demography*, Chapter 1
- Coale, Ansley J. 1987. "How a Population Ages or Grows Younger." Pp. 365-369 in S.W. Menard and E.W. Moen (eds.), *Perspectives on Population: An Introduction to Concepts and Issues*. Oxford: Oxford University Press.

Wed, Sep 10: Age-Specific Rates and Probabilities

Readings

- *Demography*, Chapter 2
- Coale, Ansley J. And Ellen Eliason Kisker. 1986. "Mortality Crossovers: Reality or Bad Data." *Population Studies* 40:389-402.

Assignment

- Rates & Probabilities Assignment, Due Sep 15

Mon, Sep 15: Life Tables

Readings

- *Demography*, Chapter 3

Wed, Sep 17: Life Tables Continued

Readings

- Bonzar, T.P. 2003. "Prevalence of Imprisonment in the U.S. Population, 1974-2001." Bureau of Justice Statistics Special Report.
<http://www.ojp.usdoj.gov/bjs/pub/pdf/piusp01.pdf>
- Hayward, Mark and Melonie Heron. 1999. "Racial Inequality in Active Life among Adult Americans." *Demography* 36(1): 77-91.

Assignment

- Life Tables Assignment, Due Sep 24

Mon, Sep 22: Mortality Transitions

Readings

- Preston, Samuel H. and Etienne van de Walle. 1978. "Urban French Mortality in the Nineteenth Century." *Population Studies* 32:275-297.
- Johansson, S.R. and Carl Mosk. 1987. "Exposure, Resistance and Life Expectancy: Disease and Death During the Economic Development of Japan, 1900-1960." *Population Studies* 41:207-235.

Wed, Sep 24: Mortality Transitions, continued

Readings

- Caldwell, John C. 1986. "Routes to Low Mortality in Poor Countries." *Population and Development Review* 12:171-220.
- Caldwell, John C. 1990. "Cultural And Social Factors Influencing Mortality Levels in Developing Countries." *The Annals of the American Academy* 510:44-59.

Mon, Sep 29: Life Expectancy & Longevity

Readings

- Soares, Rodrigo. 2007. "On the Determinants of Mortality Reductions in the Developing World." *Population Development Review* 33(2):247-.
- Olshansky, S. Jay, Burce A. Carnes, and Aline Desesquelles. 2001. "Prospects of Human Longevity." *Science* 291(5508):1491-1492.
- James Oeppen, and Vaupel JW., Broken Limits to Life Expectancy, *Science*, vol. 296 (May, 2002), pp. 1029-1031.10

Wed, Oct 1: Mortality Differentials

Readings

- Rogers, Richard G. 1992. "Living and Dying in the U.S.A.: Sociodemographic Determinants fo Death among Blacks and Whites." *Demography* 29:287-304.

- Lillard, Lee A. And Constantijn W.A. Panis. 1996. “ Marital Status and Mortality: The Role of Health.” *Demography* 36:77-91.

Mon, Oct 6: Infant and Child Mortality

Readings

- Muhui, Pradip K. and Samuel H. Preston. 1991. “ Effects of Family Composition on Mortality Differentials by Sex among Children in Matlab, Bangladesh.” *Population and Development Review* 17:415-434.
- Desai, Sonalde and Soumya Alva. 1998. “ Maternal Education and Child Health: Is there a Strong Causal Relationship?” *Demography* 35:71-81.
- Hummer, R., D. Powers, G. Gossman, S. Pullum, and W. Frisbie. 2007. “ Paradox Found (Again): Infant Mortality among the Mexican Origin Population of the United States.” *Demography* 44(3): 441-457.

Wed, Oct 8: HIV/AIDS

Readings

- John C. Caldwell. 2000. “ Rethinking the African AIDS Epidemic.” *Population and Development Review* 26: 117-135.
- Boerma, J. Ties and Sharon S. Weir. 2005. “ Integrating Demographic and Epidemiological Approaches to Research on HIV/AIDS: The Proximate Determinants Framework.” *The Journal of Infectious Diseases*, 191 (Supplement 1): S61-S67

Mon, Oct 13: Multiple Decrement Processes Using Life Tables

Readings

- *Demography*, Chapter 4, Sections 4.1-4.3 (pp.71-80)

Wed, Oct 15: Applications of Multiple Decrement Life Table Methods

- Treas, Judith. 1977. “ A Life Table for Postwar Senate Careers: A Research Note.” *Social Forces* 56(1):202-207.
- Harris, Kathleen Mullan. 1993. “ Work and Welfare among Single Mothers in Poverty.” *American Journal of Sociology* 99:317-352.

Mon, Oct 20: Fertility Measures & Concepts

Readings

- *Demography*, Chapter 5
- Bongaarts, John. 1975. “ Why High Birth Rates Are So Low.” *Population and Development Review* 1:289-296.
- John Bongaarts. 1978. A framework for analyzing the proximate determinants of fertility. *Population and Development Review* 4:104-132.

Assignment

- Fertility Estimates Assignment, Due Oct 27

Wed, Oct 22: Demographic Transition Theory

Readings

- Dudley. 1996. "Demographic Transition Theory." *Population Studies* 50(3):361-387.

Mon, Oct 27: Fertility Transitions

Readings

- Watkins, Susan Cotts. 1986. "Conclusions." Pp. 420-449 in Ansley J. Coale and Susan Cott Watkins (eds.) *The Decline of Fertility in Europe*. Princeton: Princeton University Press. CW
- Caldwell, John C., I.O. Orubuloye and Pat Caldwell. 1992. "Fertility Decline in Africa: A New Type of Transition?" *Population and Development Review* 18:211-242.

Wed, Oct 29: NO CLASS

Mon, Nov 3: More Fertility Transitions

Readings

- Knodel, John, Napaporn Havanon, Anthony Pramualratana. 1984. "Fertility Transition in Thailand: A Qualitative Analysis." *Population and Development Review* 10:297-328. JSTOR
- James F. Phillips, Ruth Simmons, Michael A. Koenig, and J. Chakraborty. 1988. "Determinants of Reproductive Change in a Traditional Society: Evidence from Matlab, Bangladesh." *Studies in Family Planning* 19:313-334.

Wed, Nov 5: Studying Determinants of Fertility Transition

Readings

- Smith, Herbert L. 1989. "Integrating Theory and Research on the Institutional Determinants of Fertility." *Demography* 26(2):171-184.
- Axinn, William G. and Scott T. Yabiku. 2001. "Social Change, the Social Organization of Families, and Fertility Limitation." *American Journal of Sociology* 106(5):1219-1261.

Mon, Nov 10: Fertility Patterns in the West

Readings

- Morgan, S. Phillip. 1996. "Fertility Trends and Differentials: Characteristic Features of Modern American Fertility." Pp. 19-63 in J.B. Casterline, R.D. Lee, and K.A. Foote, (eds.), *Fertility in the United States: New Patterns, New Theories*. Supplement to *Population and Development Review* 22. JSTOR
- S. Philip Morgan and Miles G. Taylor. 2006. "Low Fertility at the Turn of the Twenty First Century." *Annual Review of Sociology* 32:16.1-16.25.

Wed, Nov 12: Family Planning Research

Readings

- Casterline, John and Steven Sinding. 2000. "Unmet need for family planning and implications for population policy." *Population and Development Review* 26: 691-724.
- Tsui, Amy Ong . 2001. "Population policies, family planning programs, and fertility: the record." In Rodolfo Bulatao and John B. Casterline, eds., *Global Fertility Decline*. A supplement to vol 27 of Population and Development Review, pp. 184-204 New York: The Population Council.

Mon, Nov 17: Abortion and Contraceptive Use

Readings

- Henshaw, Stanley K. 1990. "Induced Abortion: A World Review, 1990." *Family Planning Perspectives* 22:76-89.
- Westoff, Charles and Akinrinola Bankole. 2000. "Trends in the Demand for Family Limitation in Developing Countries." *International Family Planning Perspectives* 26:56-62.
- Piccinino, Linda J. and William D. Mosher. 1998. "Trends in Contraceptive Use in the United States: 1982-1995." *Family Planning Perspectives* 30(1):4-10.

Wed, Nov 19: Family Demography

Readings

- Teachman, Jay D., Lucky M. Tedrow, and Kyle D. Crowder. 2000. "The Changing Demography of America's Families." *Journal of Marriage and the Family* 62:1234-1246.
- Seltzer et al. 2005. "Explaining Family Change and Variation: Challenges for Family Demographers." *Journal of Marriage and the Family* 67:908-925.

Assignment

- Family Demography Assignment, Due Nov 26

Mon, Nov 24: Cohabitation & Marriage

Readings

- Smock, Pamela J. 2000. "Cohabitation in the United States: An Appraisal of Research Themes, Findings, and Implications." *Annual Review of Sociology* 26:1-20.
- Goldstein, Joshua R. and Catherine T. Kenney. 2001. "Marriage Delayed or Marriage Forgone? New Cohort Forecasts of First Marriage for U.S. Women." *American Sociological Review* 66(4):506-519.
- Yabiku, Scott. 2006. "Neighbors and Neighborhoods: Effects on Marriage Timing." *Population Research and Policy Review* 25(4):305-327.

Wed, Nov 26: NO CLASS–THANKSGIVING BREAK

Mon, Dec 1: Connections between Demographic Behaviors

Readings

- Axinn, William G. And Arland Thornton. 1992. "The Relationship between Cohabitation and Divorce: Selectivity or Causal Influence?" *Demography* 29(3):357-374.
- Hirschman, Charles and Ronald Rindfuss. 1982. "The Sequence and Timing of Family Formation Events in Asia." *American Sociological Review.*" *American Sociological Review* 47:660-680.
- Heuveline, Patrick and Bunnak Poch. 2007. "The Phoenix Population: Demographic Crisis and Rebound in Cambodia." *Demography* 44(2):405-426.

Wed, Dec 3: Population and Environment

Readings

- Pebley, Anne R. 1998. "Demography and the Environment." *Demography* 35(4):377-89.
- Liu, J. et al. 2005. "Beyond Population Size: Examining Intricate Interactions among Population Structure, Land Use, and Environment in Wolong Nature Reserve, China." in Entwisle & Stern (Eds.), *Population, Land Use, and Environment: Research Directions*.
- Ann E. Biddlecom, William G. Axinn, and Jennifer S. Barber. 2005. "Environmental Effects on Family Size Preferences and Subsequent Reproductive Behavior in Nepal." *Population and Environment* 26(3):183-206.