

Mortality and Health

DEMOGRAPHY 230

TIME	Tuesday and Thursday, 9:30-11 am								
LOCATION	Department of Demography, 2232 Piedmont, Rm. 100								
INSTRUCTOR	Prof. John R. Wilmoth								
OFFICE HOURS	Wednesday, 2-4pm								
TELEPHONE	(510) 642-9688								
EMAIL	jrw@demog.berkeley.edu								
WEBSITE	http://demog.berkeley.edu/~jrw/230								
SCOPE	In this course we will examine trends and variability in patterns of mortality and health in human populations, giving special emphasis to methods for analyzing and understanding those patterns. In order to limit the scope of the course, we will emphasize <i>causes</i> of variation in health and mortality, rather than <i>consequences</i> of such patterns for other aspects of society. For example, we will examine the effects of smoking on health and mortality, but we will not consider the resulting financial costs of smoking-related illness and death.								
READINGS	Readings are listed on the following pages. All readings will be available both in the Demography library and online. Please do not remove reserve materials from the library except for photocopying.								
GRADING	There will be no final for this class. Grades will be based on four factors: <table> <tr> <td>Problem sets</td> <td>50%</td> <td>Class participation</td> <td>10%</td> </tr> <tr> <td>Research exercise</td> <td>30%</td> <td>Oral presentation</td> <td>10%</td> </tr> </table> <p>Active participation is an important element of this course. Everyone involved should attend class regularly and be well prepared to discuss assigned readings. Problem sets count for half of the final course grade. A research exercise and oral presentation account for an additional 40 percent.</p>	Problem sets	50%	Class participation	10%	Research exercise	30%	Oral presentation	10%
Problem sets	50%	Class participation	10%						
Research exercise	30%	Oral presentation	10%						
RESEARCH EXERCISE	Rather than writing a complete paper, students are asked to develop some exercise in research methods that would be interesting and useful for them. For example, using the same data and addressing the same substantive issues, a student might explore different methods of data analysis and presentation. This would perhaps be the most common approach, but students are invited to propose other designs for a research exercise. More information on the details of this part of the course will follow, and the instructor is open to suggestions about how to make this assignment work most effectively. The grade for the research exercise itself (worth 30 percent of the course grade) will be based on the quality of the work and a written report of the project. An oral presentation in the last weeks of class adds another 10 percent.								
SCHEDULE	See calendar on the next pages. Note that there are no classes on the following days: January 20 (inauguration), March 12 (London), April 30 (PAA). There will be extra classes May 12 and 14. Student presentations are scheduled for May 5, 7, 12, and 14.								

KEY CONCEPTS	PRIMARY READINGS	ADDITIONAL READINGS	DATES (approx.)
History Epidemiologic transition Health transition International comparisons Selective survival Barker hypothesis Infant and child mortality	Ahmad <i>et al.</i> (2000) Caldwell (2001) Delauney <i>et al.</i> (2001) Fogel & Costa (1997) Johansson (2003b) * Riley (2005) Robine (2003) * Wilmoth (2007)	Bannister & Hill (2004) Finch & Crimmins (2004) Hill & Pebley (1989) Ibrahim <i>et al.</i> (1996) Johansson (2003a) * Johansson & Mosk (1987) Kannisto <i>et al.</i> (1994) McKeown (1979) Morse (2003) * Noymer & Garenne (2000) Olshansky & Ault (1986) Omran (1971) Pison <i>et al.</i> (1993) Preston (1990) Preston & Haines (1991) † Riley (2003) * Shkolnikov (2003) * Wilmoth (2003) *	Jan 27, 29
Measurement I Data sources and quality Rates and life tables Indirect methods Model life tables Uncertainty	Arnold (2003) * Feeney (2003) * Freedman & Weed (2003) * Guillot (2003) * Hill (2003) * Hill <i>et al.</i> (2005) Myers & Manton (1983) Østby (2003) * Phillips (2003) * Preston <i>et al.</i> (1999) Preston <i>et al.</i> (2001) † Ch. 1-3 United Nations (1990) † Ch. 1-4 Wilmoth <i>et al.</i> (2007a) Wilmoth <i>et al.</i> (2009)	Anderson (2003) * Arnold (1991) Brass <i>et al.</i> (1968) Coale & Demeny (1983) † Elandt-Johnson & ... (1980) † Haub (2003) * Keyfitz (1985) † Mott & Gryn (2003) * Palmore & Gardner (1983) † Preston (1983) Preston & Hill (1980) Preston <i>et al.</i> (1996) Redfern (1993) Timaeus & Jasseh (2004) United Nations (1982) † United Nations (1983) † Vaessen (2003) * Wilmoth <i>et al.</i> (2007b)	Feb 3, 5, 10, 12
Differentials By sex By race/ethnicity By education By income	Goldman (2001) Valkonen (2003) * Vallin (1993) Waldron (2003) *	Goldman (1993a) Goldman (1993b) Goldman <i>et al.</i> (1995) House <i>et al.</i> (1988) Hu & Goldman (1988) Wilmoth and Dennis (2006)	Feb 17, 19

KEY CONCEPTS	PRIMARY READINGS	ADDITIONAL READINGS	DATES (approx.)
Measurement II Morbidity and disability Healthy life expectancy Years of life lost Multistate life tables	Crimmins (2003) * Katz <i>et al.</i> (1963) Lopez (2003) * Mathers and Robine (1997) Murray (1994) Palloni (2001) Willekens (2003) *	Ferrucci <i>et al.</i> (1998) Hirao (2004) Verbrugge and Jette (1994) Williams (1999)	Feb 24, 26, Mar 3
Health and Disability	Manton & Gu (2001) Freedman <i>et al.</i> (2002) Freedman <i>et al.</i> (2004) Robine <i>et al.</i> (1996)		Mar 5, 10
Analysis and Modeling Standardization and decomposition Survival analysis Age pattern of mortality Mortality surfaces	Arriaga (1984) Preston <i>et al.</i> (2001) † pp. 21-30 Pollard (1988) Horiuchi <i>et al.</i> (2008) Vaupel & Canudas-Romo (2002) Guillot (2003) * Elandt-Johnson & ... (1980) † Ch. 3, 5, 6 Horiuchi (2003) * Thatcher <i>et al.</i> (1998)	Bickel <i>et al.</i> (1975) Das Gupta (1993) Kitagawa (1955) Pollard (1982) Wilmoth <i>et al.</i> (2000)	Mar 17,19, 31, Apr 2
Causes of death Infectious disease Cardiovascular disease Cancer Accidents HIV/AIDS	Meslé and Vallin (1984) Gersten and Wilmoth (2002) Mathers <i>et al.</i> (2005)		Apr 7, 9
Risk factors Smoking Alcohol Obesity	Peto <i>et al.</i> (1992) Pampel (2002)		Apr 14
Forecasting Trend extrapolation Delphi method Bayesian models	Oeppen and Vaupel (2002) Wilmoth (1998) Lee (2000) Wilmoth (2005) Giroso and King (2008)		Apr 16, 21, 23, 28

* - An asterisk denotes articles from the *Encyclopedia of Population*, edited by Demeny and McNicoll.

† - A dagger denotes books or monographs that are being held on reserve in the Demography library.

READINGS (in alphabetical order)

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