

A. Hermalin
Soc 597(002)

FALL 1993

Demography of Aging

Instructor: Albert I. Hermalin
Time of Meeting: TUESDAY 2:00 - 5:00 PM
Place of Meeting: 4050 LS&A
Office Hours: I will generally hold 2:00-4:00 on Wednesday open for office hours.
I am also available by appointment at PSC or LSA.
My office at LSA is 3042 (7-4432) and my tel. # at PSC is 8-7143.

Course Objective: The goal of the course is to provide you with insight into those aspects of demographic analysis that have a clear relation to gerontology--like the nature and measures of age structure, and the life table--as well as a more subtle set of demographic perspectives that will prove useful for micro and macro modelling (see topics below). Attention will also be paid to computer programs with special relevance to the demography of aging, sources of data, and several issues in research methods.

Courses in the Demography of Aging are still evolving. This is only the second time such a course is being taught within the Department of Sociology at Michigan. A review of syllabi on this topic collected by RAND (available for perusal) shows a wide variety of approaches. As the boundaries of the field are fluid and the interests and backgrounds of the class are likely to cover a wide range, I will be guided to some extent by your goals (and the size of the class) in deciding on topics to emphasize and the range of formats to use. Accordingly the first class or two will be devoted in part to these issues since our registration system provides little advance notice on the size and composition of the class. The suggested format and content below, therefore, should be regarded as tentative and my best guess of what will work.

Format and Requirements: This will be a combination of a lecture course and seminar. On some topics I will review the issues and material but questions and discussions are always welcome. It is expected that students will be able to complement the lecture and readings from their own studies, research, and experience in gerontology. Please read the material assigned for each week on schedule in order to maximize discussion.

In addition each student will be expected to pick a topic and lead the discussion on that topic during the semester. We will discuss the topics, scheduling, and length of time at the first or second class, once the class size is determined.

In addition to your seminar leadership, you will be expected to write two "mid-size" papers one on a methodological or data issue in the demography of aging and one on a substantive topic. Examples of topics and schedules will be discussed in class. Each of these tasks will count for 30% of your grade, with the remaining 10% based on class participation.

TOPICS AND CALENDAR

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|------|--|-------------------------------|
| I. | Introduction: General Perspectives
(Cohort Succession, Denominators, Transitions) | Sept. 14 |
| II. | Determinants of Age Structure
Measures of Population Aging
World Trends; Country and Group Differences
Growth in Absolute Size of Elderly Population
Changes in Relative Number of Older Persons | Sept. 21, 28 |
| III. | Measuring Mortality
The Life Table
Special Problems at Older Ages
Trends in Older Age Mortality
Increases in Life Expectancy
Projecting Mortality
Differentials in Older Age Mortality
(by sex, across groups, countries, etc.)
Causes of Death--Differentials, Trends, Measurement Issues | Sept. 28, Oct. 4, 11 |
| IV. | Measuring Health, Morbidity and Disability
The Epidemiological Transition
Co-morbidity
Incidence and Prevalence Measures
Active Life Expectancy, Problems and Estimates
Issues Arising for Oldest-Old | Oct. 18, 25 |
| V. | A. Major Issues in Mortality, Morbidity
The Compression of Mortality/Morbidity
Heterogeneity and Frailty
Crossover Effects
B. Other Measurement Issues
Measuring Changes in Composition over Time
Measuring Changes in Status over the Life Cycle | Oct. 25, Nov. 2

Nov. 2 |
| VI. | Characteristics of the Elderly
Physical and Emotional Well-being
Economic Status
Labor Force and Retirement
Marital Status and Living Arrangements
Support and Exchanges
Measurement and Theoretical Issues | Nov. 9, 16 |

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| VII. | Modelling the Determinants and Consequences
of Demographic Events
Determinants of Mortality, Migration, Living Arrangements
Consequences of Migration, Marital Status Changes
Analyzing Support and Exchange Systems | Nov. 16, 23 |
| VIII. | Societal Consequences of Population Aging
Health Budgets and Expenditures
Social Welfare Programs
Family and Generational Structures
Economic Security and Savings
Economic Development/Productivity
Social Mobility/Social Status/Intergenerational Relations | Nov. 30 |
| IX. | Other Topics
Sources of Data on Aging
Special Considerations in Survey Research
Special Considerations in Censuses
Qualitative Approaches
Life Course Analysis
Simulations
Longitudinal Studies
Case and Country Studies | Dec. 6 |

BOOKS AND MATERIAL

A course pack of articles is available from Dollar Bill. All the required readings will be in the course pack, except chapters from two books,

Binstock and George, eds. 1990. *Handbook of Aging and the Social Sciences*. New York: Academic Press (Note: Available in paperback).

Matras, Judah. 1990. *Dependency, Obligations, and Entitlements: A New Sociology of Aging, the Life Course and the Elderly*. New Jersey: Prentice Hall.

Both of these books plus additional references and reading materials too bulky for reproduction will be on file in Room 53 at PSC after September 28. Please ask Ingrid Naaman to show you the exact location and follow the rules with regard to circulation.

Items that will be on file are marked with an asterisk. Other material will also be on file, and lists will be provided.

READINGS**I. Introduction: General Perspectives**

Preston, Samuel H. 1992. "Cohort succession and the future of the oldest old." Pp. 50-57 in *The Oldest Old*, R. M. Suzman, D. P. Willis, K. G. Maton (eds.). New York: Oxford University Press.

Hobcraft, J., J. Menken and S. Preston. 1982. "Age, period, and cohort effects in demography: A review." *Population Index* Vol. 48, no. 1 (Spring): 4-43.

**II. Overview; Measures of Population Aging, Determinants of Age Structure
World Trends; Country and Group Differences**

*Myers, George C. 1990. "Demography of aging." Chapter 2 in Binstock and George. (pp. 19-44) *

*Matras, Judah. 1990. "The social demography of aging I: Populations, demographic transitions, and age structure." Chapter 2 in *Dependency, Obligations, & Entitlements: A New Sociology of Aging, the Life Course and the Elderly*. New Jersey: Prentice Hall. (pp. 20-39) *

Lutz, W., Prinz, C., Wils, A.B., Buttner, T., and Heilig, G. 1991. "Alternative demographic scenarios for Europe and North America." In W. Lutz eds., *Future Demographic Trends in Europe and North America: What Can We Assume Today?* London: Academic Press, pp. 523-560.

Myers, George C., B. B. Torrey, and K. G. Kinsella. 1992. "The Paradox of the Oldest Old in the United States: An International Comparison." Pp. 58-85 in *The Oldest Old*, R. M. Suzman, D. P. Willis, K. G. Maton (eds.). New York: Oxford University Press.

Coale, A. J. 1964. "How a population ages or grows younger." In R. Freedman, ed. *Population: The Vital Revolution*. Garden City, NY: Doubleday and Co. (pp. 47-58)

Hermalin, A.I. 1966. "The effect of changes in mortality rates on population growth and age distribution in the United States." *The Milbank Memorial Fund Quarterly* 44, no. 4 (October): 451-469.

Grigsby, Jill S. 1990. "Paths for future population aging." *The Gerontologist* Vol. 31, no. 2 (April): 195-203.

[Rosenwaike, I. and A. Dolinsky. 1987. "The changing demographic determinants of the growth of the extreme aged." *The Gerontologist* 27: 275-280. (somewhat superseded by next item)]

Taeuber, Cynthia M. and Ira Rosenwaike. 1992. "A demographic portrait of America's oldest old." Pp. 17-49 in *The Oldest Old*, R. M. Suzman, D. P. Willis, K. G. Maton (eds.). New York: Oxford University Press.

Preston, Samuel H., Christine Himes and Mitchell Eggers. 1989. "Demographic conditions responsible for population aging." *Demography* Vol. 26, no. 4 (November): 691-704.

Suggested and/or References:

Siegel, J.S. and M. Davidson. 1984. "Demographic and socioeconomic aspects of aging in the United States." *Current Population Reports: Special Studies*, Series P-23, No. 138, Bureau of the Census.

Soldo, Beth J. and Emily M. Agree. 1988. "America's elderly." *Population Bulletin* Vol. 43, no. 3 (September): 1-51.

Grigsby, Jill S. and S. Jay Olshansky. 1989. "The demographic components of population aging in China." *Journal of Cross-Cultural Gerontology*, Vol. 4, no. 4: 307-334.

Longino, Charles F., Jr., Beth J. Soldo and Kenneth G. Manton. 1990. "Demography of aging in the United States." In Kenneth F. Ferraro, ed. *Gerontology: Perspectives and Issues*. New York: Springer Publishing Company. (pp. 19-41)

Siegel, J.S. and Hoover, S.L. 1984. "International trends and perspectives: Aging." *International Research Document*, No. 12, Bureau of the Census.

*Taeuber, Cynthia M. 1992. "Sixty-Five Plus in America," *Current Population Reports*, P23-278, Bureau of the Census. *

**III. Measuring Mortality; The Life Table, Special Problems at Older Ages
Trends in Older Age Mortality; Increases in Life Expectancy
Projections of Mortality; Differentials in Older Age Mortality
Causes of Death: Measurement and Differentials**

Palmore, James. 1983. *Measuring Mortality, Fertility, and Natural Increase: A Self-Teaching Guide to Elementary Measures*. East-West Population Institute.

Olshansky, S. Jay. 1988. "On forecasting mortality." *The Milbank Quarterly* Vol. 66, no. 3: 482-530.

Livi-Bacci, Massimo. 1982. "Social and biological aging: Contradictions of development." *Population and Development Review* 8, no. 4 (December): 771-781.

Crimmins, E.M. 1984. "Life expectancy and the older population. Demographic implications of recent and prospective trends in old age mortality." *Research on Aging* 6: 490-514.

Guralnik, Jack M., Machiko Yanagishita, and Edward L. Schneider. 1988. "Projecting the older population of the United States: Lessons from the Past and Prospects for the Future." *The Milbank Quarterly* Vol. 66, no. 2: 283-308.

Keyfitz, Nathan. 1981. "The limits of population forecasting." *Population and Development Review* Vol. 7, no. 4 (December): 579- 593.

Suggested and/or Reference:

Keyfitz, Nathan. 1985. "The life table." Chapter 2 in *Applied Mathematical Demography*. 2nd ed. NY: Springer-Verlag. (pp. 34-53).

Keyfitz, Nathan. 1985. "Mortality comparisons; the male-female ratio." Chapter 3 in *Applied Mathematical Demography*. 2nd ed. NY: Springer-Verlag. (pp. 54-76).

**IV. Measuring Health, Morbidity and Disability at Older Ages
Incidence and Prevalence of Various Impairments
Active Live Expectancy, Problems and Estimates
Issues Arising for Oldest-Old**

Myers, George C. and Vicki L. Lamb. 1993. "Theoretical Perspectives on Healthy Life Expectancy." (TBD)

Myers, George C. 1989. "Mortality and health dynamics at older ages." Chapter 10 in L. Ruzicka, G. Wunsch, and P. Kane (eds.) *Differential Mortality: Methodological Issues and Biosocial Factors*. New York: Clarendon Press. (pp. 189-214)

Myers, G. C. and K. Manton. 1987. "The Rate of Population Aging: New Views of Epidemiologic Transitions." Pp. 263-283 in *Aging: The Universal Experience*, G. Maddox and E. Busse (eds.). New York: Springer Publishing.

Preston, Samuel H. 1993. "Health Indices as a Guide to Health Sector Planning: A Demographic Critique." Pp. 126-44 in *The Epidemiological Transition: Policy and Planning Implications for Developing Countries*, James N. Gribble and Samuel H. Preston (eds.). Washington, DC: National Academy Press.

Manton, K.G. and B. J. Soldo. 1985. "Dynamics of health changes in the oldest old: New perspectives and evidence." *Milbank Memorial Fund Quarterly* 63, no. 2 (Spring): 206-285.

Crimmins, Eileen M., Yasuhiko Saito and Dominique Ingegneri. 1989. "Changes in life expectancy and disability-free life expectancy in the United States." *Population and Development Review* Vol. 15, no. 2 (June): 235-268.

Rogers, Andrei, Richard G. Rogers and Alain Belanger. 1990. "Longer life but worse health? Measurement and dynamics." *The Gerontologist*. Vol. 30, no. 5: 640-649.

Manton, Kenneth G. 1989. "Epidemiological, demographic, and social correlates of disability among the elderly." *The Milbank Quarterly* Vol. 67, Suppl. 2, Pt. 1: 13-58.

Manton, Kenneth G. and Eric Stallard. 1991. "Cross-sectional estimates of active life expectancy for the U.S. elderly and oldest-old populations." *Journal of Gerontology: Social Sciences*. Vol. 46, no. 3: S170-S182.

**V.A. Major Issues in Mortality, Morbidity
The "Compression" of Mortality/Morbidity
Heterogeneity and Frailty; Crossover Effects**

Manton, Kenneth G. 1990. "Mortality and morbidity." Chapter 4 in Binstock and George. (pp.64-90)

Fries, J. F. 1980. "Aging, natural health, and the compression of morbidity." *New England Journal of Medicine* 303: 130-135.

Verbrugge, Lois M., James M. Lepkowski and Yuichi Imanaka. 1989. "Comorbidity and its impact on disability." *The Milbank Quarterly* Vol. 67, nos. 3-4: 450-484.

Wolinsky, Fredric D. and Connie Lea Arnold. 1988. "A different perspective on health and health service utilization." *Annual Review of Gerontology and Geriatrics* 8:70-101.

A.J. Coale and E.E. Kisker. 1986. "Mortality crossovers: Reality or bad data?" *Population Studies*: 389-401.

Fries, J. F. 1984. "The compression of morbidity: Miscellaneous comments about a theme." *The Gerontologist*. 24:354-359.

Schneider, E. L. and J. A. Brody. 1983. "Aging, natural death, and the compression of morbidity: Another view." *The New England Journal of Medicine*. 309:854-855.

Myers, G. C. and K. G. Manton. 1984. "Compression of mortality: myth or reality?" *The Gerontologist* 24:346-353.

Barinaga, Marcia. 1991. "How long is the human life span?" *Science* 254 (November 15): 936-938.

Olshansky, S. Jay. 1990. "In search of Methuselah: Estimating the upper limits to human longevity." *Science* 250 (November 2): 634-640.

House, James, R. Kessler, R. Herzog, R. Mero, A. Kinney, and M. Breslow. 1990. "Age, socioeconomic status and health." *The Milbank Quarterly* 68:383-411.

Vaupel, James W. and Anatoli I. Yashin. 1985. "Heterogeneity's Ruses: Some Surprising Effects of Selection on Population Dynamics." *The American Statistician*, 39(3)August: 176-85.

Suggested and/or Reference:

Lam, David and Peter E. Smouse. 1990. "Heterogeneous frailty analysis in demography and genetics." Chapter 7 in Julian Adams, Albert Hermalin, David Lam, and Peter Smouse (eds.) *Convergent Issues in Genetics and Demography*. New York: Oxford University Press. (pp. 97-109)

V.B. Other Measurement Issues
Changes in Composition Over Time
Changes in Status Over time
Survey Design Issues

Hermalin, Albert I. and Bruce A. Christenson. 1992. "Census-Based Approaches for Studying Aggregate Changes in Characteristics of the Elderly." *Asian and Pacific Population Forum* 6(2):35-42,58-68, Summer. (TBD)

Corder, Larry S. and Kenneth G. Manton. 1991. "National Surveys and the Health and Functioning of the Elderly: The Effects of Design and Content." *Journal of the American Statistical Association* 86(414):513-25. (TBD)

Manton, Kenneth G. and Richard M. Suzman. 1992. "Conceptual Issues in the Design and Analysis of Longitudinal Surveys of the Health and Functioning of the Oldest Old." Pp. 89-122 in *The Oldest Old*, R. M. Suzman, D. P. Willis, K. G. Manton (eds.). New York: Oxford University Press.

VI. Characteristics of the Elderly
Physical and Emotional Well-being
Economic Status
Labor Force and Retirement
Marital Status and Living Arrangements
Support and Exchanges
Measurement and Theoretical Issues

*Matras, Judah. 1990. "The social demography of aging II: Life years, the life course, and the family cycle." Chapter 3 in *Dependency, Obligations, & Entitlements: A New Sociology of Aging, the Life Course and the Elderly*. New Jersey: Prentice Hall. (pp. 40-61) *

Rogers, Andrei. 1988. "Age patterns of elderly migration: An international comparison." *Demography* Vol. 25, no. 3 (August): 355-370.

Hayward, Mark D., William R. Grady and Steven D. McLaughlin. 1988. "Recent changes in mortality and labor force behavior among older Americans: Consequences for nonworking life expectancy." *Journal of Gerontology: Social Sciences* Vol. 43, no. 6: S194-S199.

Wolf, Douglas A. and Beth J. Soldo. 1988. "Household composition choices of older unmarried women." *Demography* Vol. 25, no. 3 (August): 387-403.

Holden, K.C. 1988. "Poverty and living arrangements among older women: Are changes in economic well-being underestimated?" *Journal of Gerontology: Social Sciences* 43: S22-S27.

Taeuber and Rosenwaike. 1992. "A Demographic Portrait of America's Oldest Old." (Review for characteristics)

*Matras, Judah. 1990. "The social status of the elderly: Historical and comparative perspectives." Chapter 9 in *Dependency, Obligations, & Entitlements: A New Sociology of Aging, the Life Course and the Elderly*. New Jersey: Prentice Hall. (pp. 173-196) *

Mancini, Jay A. and Rosemary Blieszner. 1989. "Aging parents and adult children: Research themes in intergenerational relations." *Journal of Marriage and the Family* 51 (2): 275-290.

Reference:

*Taeuber, Cynthia M. Sixty-Five Plus in America *

*Bureau of the Census, An Aging World II, International Population Reports, P95/92-3 *

Suggested:

*Antonucci, Toni C. 1990. "Social supports and social relationships." Chapter 11 in Binstock and George. (pp. 205-226) *

*Markides, Kyriakos S., Jersey Liang and James S. Jackson. 1990. "Race, ethnicity, and aging: Conceptual and methodological issues." Chapter 6 in Binstock and George. (pp.112-129) *

VII. Modelling the Determinants and Consequences of Demographic Events (micro level); Determinants of Mortality, Morbidity, Migration and Living Arrangements; Consequences of Migration, Marital Status Change; Analyzing Support and Exchange Systems

*Bennett, Joan M., N. M. Krause, J. Liang. 1989. "The relationship between physical health and loneliness in the Japanese aged." Paper presented at the GSA Meeting, November 1989. *

Spitze, Glenna and John Logan. 1990. "Sons, daughters, and intergenerational social support." *Journal of Marriage and the Family* 52 (May): 420-430.

*Wolf, Douglas A. and Beth J. Soldo. 1990. "Family structure and caregiving portfolios." Paper presented at annual meeting of the Gerontological Society of America, November 1990. *

Corcoran, Mary. 1979. "The economic consequences of marital dissolution for woman in the middle years." *Sex Roles* 5 (March): 343-353.

Bound, John, Greg J. Duncan, Deborah S. Laren, and Lewis Oleinick. 1991. "Poverty dynamics in Widowhood," *Journal of Gerontology: Social Sciences* 46(3): S115-S124.

Berkman, Lisa, and S. Leonard Syme. 1979. "Social, networks, host resistance and mortality: A nine-year follow-up study of Alameda County residents," *American Journal of Epidemiology* 109: 86.

Berkman, Lisa F., Thomas E. Oxman, and Teresa E. Seeman. 1992. "Social Networks and Social Support Among the Elderly: Assessment Issues." In *The Epidemiology Study of the Elderly*, R. B. Wallace and R. F. Woolson (eds.). New York: Oxford University Press, pp. 196-212.

Uhlenberg, Peter, Teresa Cooney, and Robert Boyd. 1990. "Divorce for Women After Midlife," *Journal of Gerontology* 45(1):S3-S11.

Cooney, Teresa M., and Peter Uhlenberg. 1990. "The Role of Divorce in Men's Relations with Their Adult Children after Mid-life," *Journal of Marriage and the Family* 52(August):677-88.

*Eggebeen, David J., and Dennis P. Hogan. 1990. "Giving Between Generations in American Families," *Human Nature* 1(3):211-32. *

*Eggebeen, David J. 1991. "Family Structure and Intergenerational Exchanges," working paper, Population Issues Research Center, Pennsylvania State University. *

*Hogan, Dennis P., and David J. Eggebeen. 1991. "The Structure of Intergenerational Exchanges in American Families," working paper, Population Issues Research Center, Pennsylvania State University. *

*Hermalin, Albert I., M. B. Ofstedal, and M.-L. Lee. 1992. "Characteristics of Children and Intergenerational Transfers." Research Report No. 92-21, Population Studies Center, University of Michigan. *

Suggested and/or Reference:

Janes, Craig R. 1990. *Migration, Social Change and Health: A Samoan Community in Urban California*. Stanford, CA: Stanford University Press.

**VIII. Social Consequences of Population Aging; Health Budgets and Expenditures
Social Welfare Program; Family and Generational Structures;
Economic Security and Savings; Economic Development/Productivity
Social Mobility/Social Status; Intergenerational Relations**

April 7

Martin, L.G. 1991. "Population aging policies in East Asia and the United States." *Science* Vol. 251 (1 February): 527-531.

*Bengtson, Vern, Carolyn Rosenthal, and Linda Burton. 1990. "Families and aging: Diversity and heterogeneity." Chapter 14 in Binstock and George. (pp.263-287) *

Watkins, Susan Cotts, Jane Menken and John Bongaarts. 1987. "Demographic foundations of family change." *American Sociological Review* 52 (June): 346-358.

*Habib, Jack. 1990. "Population aging and the economy." Chapter 17 in Binstock and George. (pp.328-345) *

*Smeeding, Timothy. 1990. "Economic status of the elderly." Chapter 19 in Binstock and George. (pp.362-381) *

Espenshade, T. and Rachel Braun. 1983. "Economic aspects of an aging population and material well-being of older persons." Chapter 3 in M.W. Riley, B. Hess and K. Bond, eds. *Aging in Society*. (pp. 25-51)

Burkhauser, R.V., K.C. Holden, and D. Feaster. 1988. "Incidence, timing, and events associated with poverty: A dynamic view of poverty in retirement." *Journal of Gerontology: Social Sciences* 43: S46-S52.

Treas, Judith and Barbara Logue. 1986. "Economic development and the older population." *Population and Development Review* Vol. 12, no.4 (December): 645-673.

Callahan, D. 1986. "Adequate health care and the ageing society: Are they morally compatible?" *Daedalus* 115: 247-268.

Preston, S. H. 1984. "Children and the elderly: Divergent paths for America's dependents." *Demography* 21(4): 435-458.

Smeeding, Timothy, Barbara Boyle Torrey, and Martin Rein. 1988. "Patterns of income and poverty: The economic status of children and the elderly in eight countries." Chapter 5 in John L. Palmer, Timothy Smeeding, and Barbara Boyle Torrey, eds. *The Vulnerable*. Washington, D.C.: The Urban Institute. (pp. 89-119).

Suggested and/or Reference:

Lee, Ronald D. 1992. "Population Aging and Its Social and Economic Consequences." Program in Population Research Working Paper No. 32, University of California, Berkeley.

United Nations Economic Commission for Europe. 1992. "Demographic Causes and Economic Consequences of Population Aging." Economic Studies No. 3. New York: United Nations Publ.

United Nations Dept. of International Economic and Social Affairs. 1988. "Economic and Social Implications of Population Aging." (ST/ESA/SER.R./85) New York: United Nations .

*Matras, Judah. 1990. "Population aging and the economy." Chapter 4 in *Dependency, Obligations, & Entitlements: A New Sociology of Aging, the Life Course and the Elderly*. New Jersey: Prentice Hall. (pp. 62-80) *

Keyfitz, Nathan. 1982. "Social security and solidarity." In *Population Change and Social Policy*. Cambridge: Apt Books. (pp. 201-215)

Richman, H.A. and M.W. Stagner. 1986. "Children in an aging society: Treasured resource or forgotten minority?" *Daedalus* 115: 171-190.

*Keith, Jenny. 1990. "Age in social and cultural context: Anthropological perspectives." Chapter 5 in Binstock and George. (pp. 91-111) *

Bongaarts, John, J. Birch, and K. Wachter. 1987. *Family Demography: Methods and Their Application*. New York: Oxford University Press.

IX. Other Topics**Sources of Data on Aging; Special Considerations
in Survey Research and Censuses; Qualitative Approaches;
Life Course Analysis; Simulations; Longitudinal Studies;
Case and Country Studies**

National Research Council (U.S.) Panel on Statistics for an Aging Population. 1988. "Social, economic, and demographic changes among the elderly." *The Aging Population in the Twenty-First Century: Statistics for Health Policy*. Washington, D.C.: National Academy Press. (pp. 52-64)

*Matras, Judah. 1990. "After the baby boom: The new aging, life course, and family cycle." Chapter 13 in *Dependency, Obligations, & Entitlements: A New Sociology of Aging, the Life Course and the Elderly*. New Jersey: Prentice Hall. (pp. 296-305) *

Martin, L.G. 1988. "The aging of Asia." *Journal of Gerontology: Social Sciences*. 43: S99-S113.

Tu, J.C., J. Liang, and S. Li. 1989. "Mortality decline and Chinese family structure: Implications for old age support." *Journal of Gerontology: Social Sciences* 44: S157-S168.

Rogosa, David. 1988. "Myths about longitudinal research." In K. W. Schaie, R. T. Campbell, W. Meredith and S. C. Rawlings (eds.) *Methodological Issues in Aging Research*. New York: Springer. (pp. 171-209)

Suggested and/or References:

Sinnott, Jan D., *et al.* 1983. *Applied Research in Aging: A Guide to Methods and Resources*. Boston: Little, Brown and Company.

*Knodel, John, W. Sittitrai, and T. Brown. 1990. "Focus group discussions for social science research: A practical guide with an emphasis on the topic of ageing. Population Studies Center: Comparative Study of the Elderly in Asia, Research Report No. 90-3. *

*Elder, Glen H., Jr. 1991. "The life course," for the *Encyclopedia of Sociology*, edited by E. F. Borgatta and M. L. Borgatta. *