

GEOG 143

Winter 2003

Lecture Time: TR 9:30-10:45

Lecture Location: Girvetz 1116

Recitation/Lab: Ellison Hall 2610 (Star Lab)
R 2-3pm, F 4-5pm

Population, Development, and the Environment

Dr. Stuart Sweeney

Office: Ellison 5718

Office Hours: M 9-10:30

W 3-4:30

Web page: www.geog.ucsb.edu/~sweeney/g143/g143.html

Section T.A.: Erin Middleton (erin@geog.ucsb.edu)

Course Readings

Livi-Bacci, M. (2001) *A concise history of world population*. 3rd edition. Oxford: Blackwell Publishers.

Newbold, K. Bruce (2002) *Six billion plus*. Lanham: Rowman & Littlefield Publishers.

Course reader available from The Alternative Copy Shop, 6556 Pardall Road, Isla Vista, 968-1055.

Optional readings on reserve at the RBS in Davis Library.

Course Description

This course explores the interactions between population, development, and environment. The emphasis is on gaining an appreciation of demographic aspects of economic development and environmental degradation. As such, the course goal is to promote basic demographic literacy and numeracy with regard to concrete policy problems.

Evaluation criteria

Student performance in the class will be based on a midterm exam (20 percent), a final exam (20 percent), and a term paper (60 percent). The term paper grade will be based on four interim progress reports (20 percent) and the final report (40 percent). You can earn up to 5 extra credit points if you make a poster presentation for the last day of class (3/13). The midterm and final exams will be short-answer essay questions and numerical problems based on the readings and lecture material.

The exams and term paper evaluate different aspects of the course. The exams will evaluate your comprehension of the lecture and reading material. The term paper will evaluate the extent to which you have integrated that knowledge and can apply it to a specific country. The relative weighting between the exams and term paper reflects my belief that the integrated knowledge is more important. Details about the term paper are available on a separate handout.

Communications:

If you have questions outside of class you should generally use Erin Middleton as the first point of contact. I will be available during my scheduled office hours but my schedule is very tight outside of those times. I have also set up an online discussion forum for the course at <http://bbs.geog.ucsb.edu>. Follow the instructions on the BBS page to register for the discussion group.

**SUMMARY SCHEDULE
GEOGRAPHY 143
WINTER 2003**

WEEK-DAY-DATE			LECTURE	ACTIVITIES
1	T	1/7/03	Introductions and the P-D-E nexus	Assignment 1
	R	1/9/03	Demography: history and current practice	
2	T	1/14/03	Limits to growth: exponential growth and simple population projections	Assignment 2
	R	1/16/03	"	
	F	1/17/03	-----	Progress report 1 due
3	T	1/21/03	Demo-economic interactions and the demographic transition	Assignment 3
	R	1/23/03	"	
4	T	1/28/03	Age structure and the life table	Assignment 4
	R	1/30/03	"	
	F	1/31/03	-----	Progress report 2 due
5	T	2/4/03	MIDTERM EXAM	
	R	2/6/03	Discuss term paper progress	
6	T	2/11/03	Urbanization, internal migration, & immigration	Assignment 5
	R	2/13/03	"	
7	T	2/18/03	"	Assignment 6
	R	2/20/03	"	
	F	2/21/03	-----	Progress report 3 due
8	T	2/25/03	Demo-environment interactions: health and disease	Assignment 7
	R	2/27/03	<i>Epidemics and the Environment</i> (video)	
9	T	3/4/03	"	
	R	3/6/03	"	
	F	3/7/03	-----	Progress report 4 due
10	T	3/11/03	Discussion and review	
	R	3/13/03	Poster session / party	
	F	3/14/03	-----	
11	T	3/18/03	FINAL EXAM (8-11am)	Term papers due

TOPICS AND READING ASSIGNMENTS

The two main course texts are abbreviated by *LB* for Livi-Bacci's *A Concise History of World Population* and *BN* for Newbold's *Six Billion Plus*. Articles in bold face type are in the course reader. Articles marked with an asterisk are on reserve in the RBR.

I. INTRODUCTION

1 The population-development-environment nexus

Required:

LB Ch. 1 "The space and strategy of demographic growth."

BN Introduction "The world of child six billion."

Ch. 6 "Population, economic growth, resources, and the environment" (skim)

McNeill "Introduction"

Required but skim:

Pebbley, A. "Population and the environment"

Panayotou, T. "The population, environment, and development nexus."

Preston, S. "Population and the environment: the scientific evidence."

II. DEMO-ECONOMIC INTERACTIONS AND LIMITS TO GROWTH

2 Exponential growth and simple population projections

Required:

LB Ch. 2 "Demographic growth: between choice and constraints."

Keyfitz, N. "Chapter one: population without age."

3 Demo-economic interactions and the demographic transition

Required:

LB Ch. 3 "Land, labor, and population."

Ch. 4 "Toward order and efficiency."

Simon, J. "Introduction" (from *The economics of population: classic writings*)

Spengler, J. "History of population theories."

Required but skim:

Graunt, J. "Natural and political observations" (excerpt)

Malthus, T. "An essay on the principle of population as it affects the future improvements of society" (excerpt)

Optional:

* Merrick, T. "Population dynamics in developing countries"

* Kelly, A. And W. McGreevey "Population and development in historical perspective."

* Keynes, J. "Some economic consequences of a declining population." (excerpt)

* Hansen, A. "Economic progress and declining population growth." (excerpt)

4 Age structure and demographic momentum

Required:

BN Ch.1 "Fertility and state policy"

Weinstein and Pillai Ch. 5 "Birth and fertility: measures, theories, and trends."

Optional:

* Ben-Porath, Y. "The micro-economics of fertility."

5 MIDTERM EXAM / TERM PAPER PROGRESS EVALUATION

III. URBANIZATION, INTERNAL MIGRATION, AND IMMIGRATION

6 Internal migration and immigration: concepts

Required:

LB Ch. 5 "The population of poor countries"

BN Ch. 4 "Immigration: closing or opening the door."

The Economist "A survey of migration"

Optional:

Boyle et. al. Ch.2 "Defining and measuring migration"

7 Bi-regional population projections

Required:

Lecture notes.

Optional:

* Willekens, F. "Multiregional population projections."

IV. DEMO-ENVIRONMENT INTERACTIONS

8-9 Demo-environment interactions: mortality and infectious diseases

Required:

LB Ch. 6 "The Future"

BN Ch.2 "The (Un?)certainty of Death and Disease"

Prescott and Horwood

Ch. I. "Health, old age, .."

Ch. II. "The etiology.."

Ch. IV "Sanitary aspects ..."

Required but skim:

_____ **McNeill** Ch. I "Man the hunter"

Ch. II. "Breakthrough to history"

Ch. VI. "The ecological impact..."

Optional:

Weinstein and Pillai Ch. 6 "Mortality: causes and consequences."

GEOG 143 READER TABLE OF CONTENTS

- Keyfitz**, Nathan (1985) "Chapter one: population without age." from *Applied Mathematical Demography*, 2nd edition. New York: Springer-Verlag. pp. 1-33.
- Prescott**, S. and M. Horwood (1936) *Sedgwick's Principles of Sanitary Science and the Public Health*. New York: MacMillan.
Ch. I "Health, old age, and disease..."
Ch. II "The etiology or the causes of disease. Ancient and modern theories..."
Ch. IV "Sanitary aspects of the struggle for existence: factors affecting survival."
- Simon**, Julian (1998) "Introduction" from *The economics of population: classic writings*. J. Simon (eds.) New Brunswick: Transaction Publishers, pp.ix-xxiii.
- Spengler**, Joseph (1998) "History of population theories" from *The economics of population: classic writings*. J. Simon (eds.) New Brunswick: Transaction Publishers, pp.3-16.
- Graunt**, John. "Natural and political observations" (excerpt) from *The economics of population: classic writings*. J. Simon (eds.) New Brunswick: Transaction Publishers, pp.17-28.
- Malthus**, Thomas. "An essay on the principle of population as it affects the future improvements of society" (excerpt) from *The economics of population: classic writings*. J. Simon (eds.) New Brunswick: Transaction Publishers, pp. 41-50.
- Weinstein**, Jay and V. Pillai (2001) *Demography: The science of population*. Boston: Allyn and Bacon
Ch.5 "Birth and fertility: Measures, theories, and trends."
Ch.6 "Mortality: Causes and consequences."
- Boyle**, P., K. Halfacree, and V. Robinson. (1998) *Exploring contemporary migration*. Essex, UK: Longman.
Ch. 2 "Defining and measuring migration"
- The Economist** (magazine) November 2, 2002 "A survey of migration" pp. 3-16.
- McNeill**, W. (1977) *Plagues and Peoples*. New York: Anchor Books.
"Introduction"
"I. Man the hunter"
"II. Breakthrough to history" (to pp. 73)
"VI. The ecological impact of medical science and organization since 1700." (to pp. 265)
- Pebley**, A. (1998) "Population and the environment." *Demography*, 34(4): 377-389.
- Panayotou**, Theodore (1994) "The population, environment, and development nexus." in *Population and development: old debates, new conclusions*. Robert Cassen (eds.) Washington, DC: Overseas Development Council. Pp. 149-180.
- Preston**, Samuel (1998) "Population and the environment: the scientific evidence." in *Population and Development*. Paul Demeny and Geoffrey McNicoll (eds.) London: Earthscan Publications Limited, pp. 257-263.