

Department of Anthropology**ANTH 897. Environment and Population: The Ecology of Risk, Uncertainty, and Demographic Behavior (3)**

Instructor: Paul Leslie, PhD

Last Offered: Fall 2015 (TBD for next offering)

Concern over the relationship between population and environment abounds, but the most salient research and discussion has focused on one aspect of the relationship --human impact on the environment. In this seminar, we will be concerned with the other side of the relationship as well -- how environmental characteristics (certainly the physical and biotic environments, but also the social/economic/political environments as they interact with the above) affect population characteristics and dynamics. These two "directional arrows" (population - environment, and environment - population) are of course ultimately inseparable. We will be concerned not only with how environmental characteristics affect human population dynamics (reproduction, family formation, movement, survival), but also with how responses to those environmental characteristics -- through mitigation or coping -- in turn affect the environment (biodiversity, land use and degradation, changes in infectious diseases, and more). That is, we will whenever possible take a systems view. A special emphasis will be on the biological and behavioral consequences of environmental fluctuations and unpredictability.

*(Approved December 2005)*

**ANTH 898. Human Biology and Population Health (3)**

Instructor: Amanda Thompson, PhD

To Be Offered: Spring 2020

This course explores the biological and behavioral characteristics of human populations from a biocultural and evolutionary perspective. We will examine the environmental and social factors that shape human biology and health from the cellular to the societal levels, from conception to old age, and across a range of comparative settings. Topics will include: epigenetics, nutrition and metabolism, growth and development, fertility and reproduction, immunology, cardiovascular health, and aging. Throughout the class, we will draw on classic studies and modern approaches from human biology, public health and medical anthropology to explore the multi-faceted determinants of human biology and health.

*(Approved January 2016)*

Department of Economics**ECON 850. Health Economics (3)**

Instructor: Andres Hincapie Norena

To Be Offered: Spring 2020 (will only count as credit if taught by CPC fellow, Donna Gilleskie, PhD)

Measurement and modeling of the demand for medical care, the demand for and supply of health insurance, and the incorporation of health, medical care, and health insurance in determining both short and long run labor supply.

Pre-requisites: ECON 710 and 771; permission of the instructor for students lacking the prerequisites.

*(Approved December 2011)*

**ECON 880. Labor Economics I (3)**

Instructor: Klara Peter, PhD

Last Offered: Fall 2019

Analysis of short- and long-run aspects of supply and demand of labor, including empirical analysis of labor force behavior of males, females, blacks, and whites. Microeconomic effects of marriage, fertility, mobility on labor supply, and macroeconomic effects of unemployment on inflation.

Pre-requisites: ECON 710; permission of the instructor for students lacking the prerequisite.

*(Approved December 2003)*

**ECON 881. Labor Economics II (3)**

Instructor: Jane Cooley Fruehwirth, PhD

Last Offered: Fall 2019

This course covers a range of topics in labor economics, with a unifying theme of understanding how economics informs policies for alleviating inequality. Topics include social interactions, education, early childhood intervention, and discrimination.

*(Approved December 2003)*

**Department of Epidemiology****EPID 757. Epidemiology of HIV/AIDS in Developing Countries (3)**

Instructor: Sharon S. Weir, PhD

Last Offered: Spring 2017 (will be offered in Fall 2020)

This course examines the epidemiology of AIDS from an international perspective. It considers the AIDS pandemic in a broad epidemiologic perspective, including key aspects of basic, clinical, and social science.

Pre-requisites: EPID 600.

*(Approved December 2007)*

**EPID 825. Social Determinants of Health: Theory, Method, and Intervention (3)**

Instructor: Joanna "Asia" Maselko, PhD

Last Offered: Spring 2017 (TBD for next offering)

Discussion and readings will focus on population vs. individual perspectives on health, risk conditions vs. risk factors, concepts of causation, and knowledge development as a historic and social process.

Course will also examine macro-level determinants of population health. *Formerly EPID 799B.*

Pre-requisites: EPID 600.

**EPID 826. Introduction to Social Epidemiology (2)**

Instructor: Julia Ward, PhD

Last Offered: Fall 2019 (will only count as credit if taught by CPC fellow, Allison Aiello, PhD)

This course provides an overview of key concepts, methods and findings in research on social determinants of population health. Classes will consist of a didactic presentation followed by in-class group work modules and large group summary discussion.

Pre-/co-requisites: EPID 600.

*(Approved December 2006)*

**EPID 827. Social Epidemiology: Design and Interpretation (3)**

Instructor: Whitney Robinson, PhD

To Be Offered: Spring 2020

Approaches to social epidemiologic research, with a focus on study design and interpretation of analytic techniques common in social epidemiology. Topics include causal inference for socially patterned exposures, racial equity research, and place effects on health.

Pre-requisites: EPID 710 (or equivalent) and EPID 826; Co-requisites: EPID 715/6.

*(Approved December 2011)*

**Department of Geography****GEOG 542. Neighborhoods and Health (3)**

Instructor: Michael Emch, PhD

Last Offered: Fall 2016 (TBD for next offering)

This course focuses on the theory behind neighborhood determinants of health, which is an important area in population health research. It is a survey course that covers the fundamental theory behind

neighborhood effects and the approaches for measuring them. The course involves a review of empirical and theoretical work from several different fields including geography, sociology, and public health.

*(Approved December 2006)*

### **GEOG 803. Nature-Society Studies and Human-Environment Interactions (3)**

Instructor: Clark Gray, PhD

To Be Offered: Spring 2020

The research topic/s in this course will fall within the area of climate change and human health, but will be interpreted broadly to encompass various aspects of environmental change and human well-being. We will take advantage of new population-representative data sources on human health and well-being (e.g., IPUMS, DHS, LSMS) as well as new high-resolution environmental data sources on climate and other aspects of environmental change.

*(Approved December 2018)*

### **GEOG 813. Nature-Society Studies and Human-Environment Interactions (3)**

Instructor: Stephen Walsh, PhD

Last Offered: Fall 2018 (TBD for next offering)

An in-depth seminar devoted to contemporary readings in nature-society studies and human-environment interactions.

## **Department of Maternal and Child Health**

### **MHCH 716. International Family Planning and Reproductive Health (3)**

Instructor(s): Katherine Tumlinson, PhD and Sian Curtis, PhD

To Be Offered: Spring 2020

This course will provide an overview of the critical issues in international family planning and reproductive health, including major theoretical frameworks, patterns and trends over time, and family planning and reproductive health policy development. We will trace the evolution of the field from its demographic roots through the current expansion to a broader reproductive health perspective. The main theoretical models to explain the determinants of fertility and reproductive mortality and morbidity will be presented. Demographic data will be used to describe the trends and patterns of family planning and reproductive health within the global context. The development of population, family planning and reproductive health policy through the last three decades, along with a more recent focus on the field within the context of health and human rights, will be discussed.

*(Approved December 2006)*

### **MHCH 722. Global Maternal and Child Health (3)**

Instructor: Kavita Singh Ongechi, PhD

Last Offered: Fall 2019

The focus of this population-based course includes emphases on measurement, trends, theory and both the biological and social determinants of maternal and child health. In the course, the main causes of maternal and under-five morbidity and mortality in developing countries are presented as well as the interventions, policies and research which address these causes. Students learn how to use conceptual models and theory to understand how biological and social factors interact to influence health outcomes. The main social factors studied are poverty, education, and gender equality.

*(Approved December 2012)*

### **MHCH 724. Abortion Care and Policy (2)**

Instructor(s): Amy Bryant, PhD and Sian Curtis, PhD

Last Offered: Fall 2019

This course will provide an overview of the critical issues in abortion care and policy, both in the US and globally. We will cover the major theoretical frameworks defining abortion care and policy, and the epidemiology of abortion globally and nationally.

**MHCH 862. Program Impact Evaluation (3)**

Instructor: Gustavo Angeles, PhD

To Be Offered: Spring 2020

The focus of this course is developing the skills for examining data in order to assess whether a program had an impact on demographic or health outcomes or behaviors of a given population group. Even though a good part of the course will be spent reviewing evaluation designs and the application of statistical techniques for evaluating programs, this is not a course in statistics, this is a course on program evaluation, therefore, the interest is in understanding what are the main issues involved in correctly answering the question: Does a program have an impact? and, if the answer is yes, by how much? We will review how to design and carry out a program evaluation and developing the criteria for selecting the appropriate analytical procedure for evaluating a program given the characteristics of the outcome under examination, the program, and the data available to the evaluator. Of course, students should know how to apply the chosen analytical procedure. Emphasis is given to the appropriate interpretation of results in the context of evaluating a program. This course examines the challenges for implementing program impact evaluations in developing countries. Most applications are drawn from impact evaluations of population and MCH programs in Africa, Asia and Latin America.

*(Approved December 2006)*

**Department of Nutrition**

**NUTR 745. International Nutrition (3)**

Instructor(s): Linda Adair, PhD and Margaret Bentley, PhD

Last Offered: Fall 2018 (will be offered in Fall 2020)

Provides a broad overview of international nutrition research issues, programs, and policies. Topics will include micronutrient deficiencies, child feeding and growth, determinants of under- and over-nutrition, chronic disease and nutrition, food fortification and supplementation, and nutrition intervention programs and policy.

*(Approved December 2003)*

**Department of Public Policy**

**PLCY 895. Topics in Poverty and Human Resources (3)**

Instructor: Sudhanshu (Ashu) Handa, PhD

Last Offered: Spring 2012 (TBD for next offering)

This course covers topics in poverty, welfare and human resources from an economic perspective, and will be of interest to students who want to specialize in social and behavioral approaches to the study of population and demographic phenomena.

*(Approved November 2004)*

**Department of Sociology**

**SOCI 820. Seminar in Marriage and the Family (3)**

Instructor: Lisa D. Pearce, PhD

Last Offered: Fall 2019

This graduate seminar will introduce students to a wide range of studies in the sociology of family, improving their ability to critically analyze work in this field and inspiring students' own family-related research. The course materials draw on a variety of theoretical, historical, cultural and methodological perspectives to examine topics such as union formation and dissolution, family relationships,

childbearing, parenthood, and intergenerational exchanges.  
(Approved December 2003)

**SOCI 825. Aging and Cohort Analysis in Social and Epidemiologic Research: Models, Methods, and Innovations (3)**

Instructor: Y. Claire Yang, PhD

Last Offered: Spring 2016 (will be offered in Fall 2020)

This seminar surveys the major methodological tools and empirical studies of aging and cohort analysis that are of enduring importance to the understanding of social change, epidemiologic trends, and related population and life course processes and dynamics. It aims to provide useful guidelines on how to conduct such analysis. It first introduces the theoretical background and principles of the aging and cohort analysis paradigm.

(Approved December 2012)

**SOCI 826. Using Add Health to Study Health and Developmental Trajectories Across the Life Course (3)**

Instructor: Kathleen Mullan Harris, PhD

To Be Offered: Spring 2020

This course is designed to integrate the theory and research literature on health and developmental trajectories across the life course from early adolescence into adulthood based on the design and data from the National Longitudinal Study of Adolescent Health (Add Health). Within the broad life course framework focusing particularly on the transition to adulthood, this course will facilitate student research using Add Health (and other population-representative longitudinal datasets upon approval). Add Health was designed to study the causes of health and health behavior in adolescence and the transition to adulthood with special emphasis on the effects of the social contexts of young people's lives. The study was designed by population researchers at the Carolina Population Center at UNC, and has been funded through the Demographic and Behavioral Science Branch of NICHD as three program projects from 1994-2013. The design evolved from theoretical notions of how the social and physical environment influence individual health and health behavior among adolescents and their outcomes in young adulthood. In addition to comprehensive demographic, social, behavioral, and biological data on individuals, independent measurement of contextual data on the family, siblings, the school, friends, the peer network, romantic and sexual partners, the neighborhood, the community, and state laws and policies have been collected for rich multilevel analyses of main and interactive environmental influences on health and health behavior.

(Approved December 2012)

**SOCI 830. Demography: Theory, Substance, Techniques, Part I (3)**

Instructor(s): Barbara Entwisle, PhD; Elizabeth Frankenberg, PhD; and Robert Hummer, PhD

Last Offered: Fall 2019

This is the first part of a two-course sequence that is designed as a basic graduate-level introduction to demography. This part of the course will cover basic concepts and tools, sources of demographic data, and the study of mortality and fertility. The second semester will cover stable population theory, migration, population distribution, population policy, and estimates and projections. Class-time will be devoted to both lecture and discussion, depending on the nature of the topic.

**SOCI 831. Demography: Theory, Substance, Techniques, Part II (3)**

Instructor: Yong Cai, PhD

Last Offered: Spring 2015 (TBD for next offering)

This course is designed to teach the skills necessary to be an effective social demographer. Half of the class time will be in the computer lab devoted to hands on manipulation of demographic data from a variety of sources. The course will be "problem-based" with time spent working on several cases in depth and developing analytic skills.

**SOCI 832. Migration and Population Distribution (3)**

Instructor: Jacqueline M. Hagan, PhD

Last Offered: Fall 2018 (TBD for next offering)

Treats migration trends, patterns, and differentials and their effects on population distribution in continental and regional areas. Attention is given to theoretical and methodological problems in the study of population movement.

*(Approved December 2005)*

**SOCI 833. Socioeconomic Factors in Fertility (3)**

Instructor: Yong Cai, PhD

Last Offered: Fall 2015 (TBD for next offering)

Study of fertility differentials by social and economic factors, changes over time, the manner in which these factors affect fertility, and the implications thereof for fertility-control programs.

**SOCI 835. Mortality: Social Demographic Perspectives (3)**

Instructor: Robert Hummer, PhD

To Be Offered: Spring 2020

This advanced seminar covers mortality date and measurement, the inequality of death, trends in morbidity and mortality, and explanations of mortality decline. Social demographic perspectives receive primary emphasis.

Pre-requisites: SOCI 830; by permission of the instructor for students lacking the prerequisite.

**SOCI 851. Sociology of Gender (3)**

Instructor: Katherine Weisshaar, PhD

Last Offered: Fall 2019

The course covers major classical and current approaches to social stratification in sociology, with some special emphasis on evolutionary approaches, issues related to the evolution of social inequality with industrial development and globalization, and comparative social mobility.

*(Approved January 2018)*

**SOCI 863. Sociology of Health, Illness, and Healing (3)**

Instructor: Liana Richardson, PhD

Last Offered: Fall 2018 (TBD for next offering – Fall 2020 or Spring 2021)

This seminar provides a broad introduction to the sociology of health and illness. Classic and contemporary perspectives, as well as empirical evidence, are covered. Questions such as, "how (and why) are health and illness socially constructed and socially distributed?" and "what can be done to address these phenomena?" are examined.

*(Approved January 2015)*

**SOCI 950-009. Interdisciplinary Population Science Proseminar (1)**

Instructor: Barbara Entwisle, PhD

Last Offered: Fall 2019 (to be offered in Spring 2020)

This one-credit hour course provides trainees with a context and forum to advance their understanding of the scientific challenges, ethical issues, and professional activities associated with interdisciplinary population science research.