BIOSTATISTICS

STAT 421 Applied Categorical Data Analysis
Credits: 3
Offered: Spring
Prerequisites: Stat 301 or cons inst.
Crosslists:
Methods of analyzing multidimensional contingency tables, emphasis on practical applications. The use of computing packages for analysis of such data. Model selection, testing goodness of fit, estimation of parameters, measures of association and methods for detecting sources of significance.

STAT 551 Introduction to Biostatistics
Credits: 3
Offered: Fall
Prerequisites: Math 221 or equiv or cons inst.
Crosslists: BMI
Course designed for the biomedical researcher. Topics include: descriptive statistics, hypothesis testing, estimation, confidence intervals, t-tests, chi-squared tests, analysis of variance, linear regression, correlation, nonparametric tests, survival analysis and odds ratio. Biomedical applications used for each topic. This course covers the materials in the first 10 weeks of BMI511 in more detail and depth.

STAT 542 Fundamentals of Clinical Trials
Credits: 3
Offered: Spring
Prerequisites: Stat 541 or equiv or cons inst.
Crosslists: BMI
Intended for biomedical researchers interested in the design and analysis of clinical trials. Topics include definition of hypotheses, measures of effectiveness, sample size, randomization, data collection and monitoring, and issues in statistical analysis. Statistics graduate students should take Stat 641. This course is intended for clinical investigators interested in the design conduct and analysis of intervention studies.

STAT 641 Statistical Methods for Clinical Trials
Credits: 3
Offered: Fall
Prerequisites: Math/Stat 310 or equiv or cons inst.
Crosslists:
Statistical issues in the design of clinical trials, basic survival analysis, data collection and sequential monitoring. Intended for statistics graduate students; those with medical backgrounds should take Stat 541. This course is intended for graduate students interested in the design, conduct and analysis of intervention studies and as such covers the methods in depth.

STAT 642 Statistical Methods for Epidemiology
Credits: 3
Offered: Spring
Prerequisites: Stat 310 or equiv or cons inst.
Crosslists:
Methods for analysis of case-control, cross sectional, and cohort studies. Covers epidemiologic study design, measures of association, rates, classical contingency table methods, and logistic and Poisson regression. This course covers the statistical methods for design and analysis of analytic epidemiologic studies in depth.
STAT 701 Applied Time Series Analysis, Forecasting and Control I  
Credits: 3  
Offered: Not indicated  
Prerequisites: Stat 310 or equiv.  
Crosslists:  
Theory and application of discrete time series models illustrated with forecasting problems. Principles of iterative model building. Representation of dynamic relations by difference equations. Autoregressive integrated Moving Average models. Identification, fitting, diagnostic checking of models. Seasonal model application to forecasting in business, economics, ecology, and engineering used at each stage, which the student analyzes using computer programs which have been specially written and extensively tested.

COMMUNICATION

JOURN 415 Science and Environmental Journalism  
Credits: 4  
Offered: Fall or Spring  
Prerequisites: Journ 335; cons inst for non-majors.  
Crosslists:  
Instruction and practice in strategies for communicating science to the public. Emphases include (1) how to explain difficult concepts and processes; (2) skills for telling interesting and artful stories; and (3) strategies for making reasonable judgments about scientific evidence.

JOURN 617 Health Communication in the Information Age  
Credits: 3  
Offered: Fall or Spring  
Prerequisites: Journ 565 or equiv.  
Crosslists: L SC COM, COM ARTS, FAM COM  
This course will examine the role of communication in health, how the revolution in information technology has affected health communication, and the assumptions about health information and communication that drive current efforts to use technologies.

JOURN 860 Science and Environment Communication  
Credits: 3  
Offered: Not Indicated  
Prerequisites: Grad st.  
Crosslists:  
Course uses available scholarship and commentary to track the evolution of mass media coverage of science and the environment. Emphasis on how journalists utilize evidence, the influence of scientific and journalistic norms on stories, and the effects of mass media on science and environment messages to the public.

Seminar in Intercultural Communication in Health Care  
Credits:  
Offered:  
Crosslists:  
This lecture series provides a foundation in the principles of culture, identity, and communication. Content will focus on identifying and developing communication skills for more effective interactions across all settings and cultures. The series format includes a lecture open to everyone, followed by a discussion section designed especially for students who wish to explore communication techniques in more detail.
POP HLTH 650 Summer Institute Special Topics Courses
Credits: 1
Offered: Summer
Crosslists:

POP HLTH 660 Communicating Public Health Information Effectively
Credits: 1
Offered: Summer
Crosslists:
This one week course is designed to help students improve their ability to communicate with different audiences. From the news media to legislators, and from written to oral communication, students will learn strategies for health communication based on scientific and practical recommendations.

COMMUNITY HEALTH

COM ARTS 402 The Psychology of Communication
Credits: 3 Offered: Fall or Spring
Prerequisites: So st.
Crosslists:
The role and function of information processing in human communication behavior.

HDFS 516 Family Stress and Coping
Credits: 3
Offered: Spring
Prerequisites: 2 crses from any of the following disciplines: soc, psych, women's health
Crosslists:
Theories of stress and coping from sociological, psychological, and biosocial perspectives. Family functioning and child development issues in relation to normative and nonnormative stresses (e.g., divorce, bereavement, work, chronic illness).

HDFS 872 Bridging the Gap Between Research and Action
Credits: 2 Offered: Not Indicated
Prerequisites: Grad st & at least one crse each in rsch methods & grad level stats.
Crosslists:
Addresses the critical skills and methods needed to gather and apply research-based knowledge and theory to human development and family studies. Strategies for conducting research relevant to social policy, programs, and the general public will be discussed as well as techniques for communicating research.

KNES 521 Physical Activity and Health
Credits: 3
Offered: Fall
Prerequisites: Kines 314 or cons inst.
Crosslists:
Research evidence regarding how physical activity and fitness are related to health (e.g., during pregnancy and aging) and disease, especially cardiovascular diseases, obesity,
diabetes, osteoporosis, and cancer. Application and communication of knowledge in practical situations.

**MED HIST 559 Cultural Perspectives on Aging, Grief, Death & Dying**
- Credits: 3
- Offered:
- Prerequisites:
- Crosslists:
Understandings of aging, grief, death and dying, are culturally and historically shaped. The course will explore cultural and ethical dimensions of: aging and regard for elders; end-of-life perspectives; cross-cultural experiences and meanings of death, grief and loss; and potential relevance for understanding health disparities.

**NURSING 702 Health Promotion and Disease Prevention in Diverse Communities**
- Credits: 3
- Offered: Not Indicated
- Prerequisites: Grad st.
- Crosslists:
Multidisciplinary approach for health promotion/disease prevention in diverse communities emphasizing the use of epidemiological psychosocial, and environmental data for aggregate/community assessment to determine shared risks, exposures, behaviors and interventions.

**NURSING 733 Dynamics of Childbearing**
- Credits: 3
- Prerequisites: Nurs 540 or equiv; Grad st; Nurs 700 or equiv or con reg; con reg in Nurs 613 or 719 or access to a clinical population; or cons inst
- Crosslists:
Theory, research, and clinical data which direct the nursing management of women during birth and postbirth period.

**NURSING 735 Health Promotion and Disease Prevention for Women Across the Lifespan**
- Credits: 3
- Offered: Not Indicated
- Prerequisites: Grad st and a course in research design or cons inst.
- Crosslists: WOMEN ST
Identification of health concerns for women, recognizing differences among age, socioeconomic, and ethnic groups; synthesis of bio-physiological, psychosocial, and cultural influences of such health concerns; analysis and proposal of interventions to promote overall health and to prevent problems among women.

**NURSING 746 Interdisciplinary, Coordinated Care of the Child with Chronic Illness**
- Credits: 2-3
- Offered: Not Indicated
- Prerequisites: Grad st and/or cons inst
- Crosslists: PEDIAT, PHM PRAC, SOC WORK
Workshops, case conferences/simulations, and problem-solving exercises are presented by members of an interdisciplinary pediatric team and guest speakers. Course integrates knowledge from medicine, nursing, pharmacy, social work, nutrition, respiratory care, home care, and education with an emphasis on critical transition points in the care of children with chronic disease.

**NURSING 761 Health Program Planning, Evaluation, and Quality Improvement**
- Credits: 3
Offered: Not Indicated
Prerequisites: Grad st or cons inst.
Crosslists: Provides content in theory, concepts, and methods of program planning and evaluation in the context of health care and community health organizations. Provides basic concept related to designing and implementing health services quality improvement projects.

**NURSING 880 Prevention Science**
Credits: 3
Offered: Not Indicated
Prerequisites: 2nd yr Grad st or cons inst.
Crosslists: SOC WORK, ED PSYCH, HDFS
This course provides a theoretical, empirical and practical foundation for prevention science as it relates to the prevention of human social problems. Research and evaluation methods, program design strategies, best practices and policy as they relate to the field of prevention are also examined.

**NUTRI SCI 540 Community Nutrition Programs and Policy Issues**
Credits: 1
Offered: Not Indicated
Prerequisites: Nutri Sci 431 or cons inst.
Crosslists: Community Nutrition Programs and Policy Issues. Students will increase their understanding of community-based nutrition needs, intervention programs and policy issues in the U.S. Written assignments will demonstrate students' positions on related issues.

**NUTRI SCI 625 Advanced Nutrition: Obesity and Diabetes**
Credits: 1
Offered: Spring, alternate years
Prerequisites: Grad st; Nutr Sci 619 or con reg & Physiol 335 or equiv or cons inst.

**PHM PRAC 714 Social Organization of Pharmacy**
Credits: 3
Offered: Not Indicated
Prerequisites: Grad st or cons inst.
Crosslists: Examination of theories, methodologies, and research related to social organization of the profession and practice of pharmacy, the pharmaceutical industry, pharmaceutical regulation, and national/international pharmacy sectors.

**POP HLTH 559 Patient Safety and Error Reduction in Health Care**
Credits: 2
Offered: Not Indicated
Prerequisites: Crosslists: I SYS E, MED PHYS
This course discusses the nature and magnitude of hazards to patients in various health-care settings, and presents the student with techniques to analyze the risks and to address the problems, in order to reduce errors and create a safe patient-care environment. Particular tools discussed include probabilistic risk assessment methods,
failure mode and effects analysis, human factors analysis and error classification systems, and quality management. Discussions of patient safety standards, recommendations from agencies, and continual quality improvement, along with many examples of applications in various settings, anchor the studies in the clinical world.

**PSYCH 509 Abnormal Psychology**  
Credits: 3  
Offered: Fall or Spring or Summer  
Prerequisites: Psych 201 or 202 or 281  
Crosslists:  
A survey of the psychology of abnormal behavior; nature and social/biological origins of neurotic, psychotic, and other behavioral abnormalities. More general coverage of behavior pathology than Psych 511 or 512.

**SOC 531 Sociology of Medicine**  
Credits: 3  
Offered: Fall or Spring  
Prerequisites: Jr st and intro course in soc or cons inst.  
Crosslists:  
Cultural, social and social psychological factors in disease processes, distribution of disease, social definitions of illness, and organization of the health professions and health facilities.

**SOC WORK 821 Aging and Mental Health-Illness**  
Credits: 2  
Offered: Not Indicated  
Prerequisites: Grad st.  
Crosslists:  
Prepares front line social workers for practice with elderly people who have mental health problems. Effective assessment, diagnosis, treatment planning, referral strategies and problems detrimental to mental health for elderly persons and their families will be examined.

**SOC WORK 875 Recent Developments: Health, Aging and Disability Policy and Services**  
Credits: 2  
Offered: Not Indicated  
Prerequisites:  
Crosslists:  
Not in Graduate Catalog

**Soc Work 923 Family Violence**  
Credits: 2  
Offered: Fall  
Prerequisites: Grad Student  
Crosslists:  
An overview of the risk factors and trauma effects of the major forms of family violence. Models of prevention and intervention will be described. Attitudes about family violence will be explored. Basic skills for detecting abuse and making referrals will be taught.

**CULTURAL COMPETENCE**

**Med Hist 504 Society and Healthcare in American History**  
Credits: 3
Offered:
Prerequisites:
Crosslists:
This course is designed to acquaint students with the history of health care in America. Although the focus will be on the past, efforts will be made to relate the past to the present.

NURSING 702 Health Promotion/Disease Prevention in Diverse Communities
Credits: 3
Offered: Not Indicated
Prerequisites: Grad st.
Crosslists:
Multidisciplinary approach for health promotion/disease prevention in diverse communities emphasizing the use of epidemiological psychosocial, and environmental data for aggregate/community assessment to determine shared risks, exposures, behaviors and interventions.

Seeking Educational Equity and Diversity (SEED) Seminar
Credits: 2
Offered: Not Indicated
Prerequisites:
Crosslists:
Student SEED is a social justice seminar that sets to examine through both the "textbooks of our lives" and scholarly readings, issues of privilege and oppression as they play out in the arenas of ethnicity/race, socioeconomic/geography/class, gender, sexual orientation, abilities, religion, etc. in the U.S.. In Student SEED, participants are asked to bring their whole holistic selves into class - to "keep it real," if you will - in order to fully explore how "self" and the "stuff" we carry plays out in context and how context plays out in ourselves.

WS 553: Special Topics in Women and Health - LGBTI Health
Credits: 3
Prerequisites: Women's Studies 103 or cons inst.
Offered: Spring
Crosslists:
Examines a wide range of health issues that affect lesbian, gay, bisexual, transgender, and intersex people. Biomedical issues - such as effects of hormone treatments for those undergoing transition, the surgeries experienced by some intersex and transsex people, and transmission and prevention of sexually related infections - will be covered in depth.

ENVIRONMENTAL HEALTH

ENVIR ST 368 Environmental Law, Toxic Substances and Conservation
Credits: 2
Offered: Spring, odd years
Prerequisites: So st.
Crosslists: M&ENVTOX, PL PATH
Development of and need for "environmental law"; an introduction to the legal system; public and private rights in the environment; regulation of pesticides and toxic substances; environmental legislation and rulemaking; environmental impact statements; professionals as expert witnesses. No prior knowledge of law assumed. For scientists and others dealing with environmental issues in academia, industry and government.
**GEOG 339 Environmental Conservation**  
Credits: 3  
Offered: Every semester  
Prerequisites: So st.  
Crosslists: ENVIR ST  
Ecological and cultural background of conservation, problems of resource and environmental quality management, and pressing issues of population, food, energy, and pollution.

**PHS 471 Introduction to Environmental Health**  
Credits: 3  
Prerequisites: A course in biology; junior standing  
Offered: Spring  
Impact of environmental problems on human health; biological hazards to human health from air and water pollution; radiation; pesticides; noise; problems related to food, occupation and environment of the work place; accidents. Physical and chemical factors involved.

**M M & I 554 Emerging Infectious Diseases and Bioterrorism**  
Credits: 2  
Offered: Fall  
Prerequisites: MM&I 301 or cons inst.  

**M&ENVTOX 625 Toxicology I**  
Credits: 3  
Offered: Fall  
Prerequisites: Biochem 501 & Physiol 335 or cons inst. Path 401 & Phmcol 401 or equiv recommended.  
Crosslists: MEDICINE, ONCOLOGY, PATH, PHMCOL-M, POP HLTH, AHABS, PHM SCI  
Basic principles of toxicology and biochemical mechanisms of toxicity in mammalian species and man. Correlation between morphological and functional changes caused by toxicants in different organs of the body.

**M&ENVTOX 626 Toxicology II**  
Credits: 3  
Offered: Spring  
Prerequisites: Env Tox 625 or cons inst.  
Crosslists: MEDICINE, ONCOLOGY, PATH, PHMCOL-M, POP HLTH, AHABS, PHM SCI  
A course surveying the basic methods and fundamental biochemical mechanisms of toxicity. Toxicity in mammalian organ systems, techniques for evaluating toxicity, as well as mechanisms of species specificity, and environmental interactions (with toxicant examples) are presented.

**MED HIST 509 The Development of Public Health in America**  
Credits: 3  
Offered: Fall or Spring  
Prerequisites: Jr st & cons inst.  
Crosslists: HIST SCI  
Health problems in the U.S. from the colonial period to the twentieth century; efforts made toward their solutions.

**POP HLTH 502 Air Pollution and Human Health**
Credits: 3  
Offered: Fall  
Prerequisites: Jr st, a course in biology  
Crosslists: ENVIR ST  
Toxicologic, controlled and epidemiologic studies on major air pollutants. Overview of study methods, lung physiology and pathology; air pollution sources, types, meteorology, sampling methods, controls and regulations.

**Epidemiology**

**POP HLTH 621 Introduction to Nutritional Epidemiology**  
Credits: 1  
Offered: Fall  
Prerequisites: Stat 301 or equiv & Nutr Sci 332 or cons inst.  
Crosslists: NUTR SCI  
Techniques used to evaluate relationships of diet to health and disease in human populations; integration of knowledge gained with results of animal and clinical studies toward understanding dietary risk or protective factors for disease. Includes advanced diet assessment and basic epidemiologic approaches.

**POP HLTH 798 Epidemiologic Methodology**  
Credits: 3  
Offered: Not Indicated  
Prerequisites: Grad stdt in population health & Pop hlth 797; or cons inst.  
Crosslists:  
Design and implementation of epidemiologic research, including sample selection, recruitment, data collection and management. Strategies to address methodologic limitations are emphasized.

**Pop Hlth 802 Advanced Epidemiology: Etiology and Prevention.**  
Credits: 3  
Offered:  
Prerequisites: Grad st, Pop Hlth 797 or 798; or cons inst.  
Crosslists:  
The course addresses the epidemiological basis for understanding the etiology and prevention of major diseases. Students integrate information about disease patterns, epidemiological methods, and published studies to identify research questions and design a project.

**POP HLTH 904 Special Topics Epidemiology: Cardiovascular Diseases**  
Credits: 2  
Offered: Fall or Spring  
Prerequisites:  
Crosslists:  
This course is directed to graduate and undergraduate students interested in the epidemiology of cardiovascular diseases. The main emphasis of PHS 904 is the discussion of the population distribution, health impact, risk factors, treatment, and prevention of cardiovascular diseases.

**POP HLTH 904 Special Topics in Epidemiology: Cancer Epidemiology**  
Credits: 2  
Offered: Fall or Spring  
Prerequisites: Pop Hlth 797, 798; & H Oncol 721 or cons inst.  
Crosslists:
This course will cover current knowledge on cancer occurrence and control in human populations. Design and analysis approaches appropriate for cancer epidemiology will also be discussed.

**POP HLTH 904 Special Topics in Epidemiology: Infectious Diseases**  
Credits: 2  
Offered: Fall or Spring  
Prerequisites: Pop Hlth 797 or cons inst.  
Crosslists:  
Epidemiology is the study of how health and disease are distributed in populations and of factors that influence or determine this distribution. Infectious disease epidemiology monitors the occurrence of infectious diseases and develops strategies for preventing and controlling disease. In addition to knowing basic epidemiologic methods, infectious disease epidemiologists need to be familiar with the features of important infectious diseases as well as laboratory techniques for the identification and quantification of infectious agents. This course is designed to provide an introduction to infectious disease epidemiology. It will focus on the etiology, distribution, determinants, prevention and control of infectious diseases of major public health importance.

**WL ECO 961: Ecology of Wildlife Diseases**  
Credits: 1  
This special topics class will focus on concepts related to the ecology, evolution, and management of wildlife diseases. Through literature review and discussion, we will emphasize key concepts rather than specific diseases/hosts. Specific topics and case studies will reflect the interest of the participants. Student will take turns leading the discussions. This will involve choosing literature for the class to read and preparing a short presentation which introduces the topic. Students will be graded on their participation in class discussions (66%), and their leading of discussions (33%).

**ZOOLOGY 350 Parasitology**  
Credits: 3  
Offered: Spring  
Prerequisites: Intro course in biology, So st.  
Crosslists: MM&I, AHABS  
General biology, ecology and phylogeny of animal parasites, including those of humans; host-parasite interactions; general epidemiological principles of parasitic infections.

**GLOBAL HEALTH**

**POP HLTH 650 Foundations for Global Health Practice**  
Credits: 1  
This course will be designed to prepare students for global health field experiences. The course is organized into 8 modules that must be completed during either the first or second 8 weeks of the semester. We anticipate that the course will be offered each semester. Topics include: 1) an overview of international health; 2) health and culture; 3) health indicators; 4) health in developing countries; 5) health manpower; 6) international health agencies; 7) ethics and social justice; and 8) travel policies and safety issues for global health field experiences. The assignments help prepare the students for a global health field experience. The course assignments help students to prepare for their global health field experiences by requiring that they focus on countries and health topics that relate to the specific site that they will visit. This course will be developed and offered in Fall 2005 and will be a pre-requisite for the Global Health Field Experience.
Course Instructor: Responsibility for the course will rotate each semester. The following individuals have agreed to teach the course: Linda Baumann, Chris Olsen, Cindy Haq and Lori DiPrete Brown, Connie Kraus, and Jonathan Patz.

**POP HLTH 650 Foundations of Healing/Global Healing Traditions**
Credits: 1
Prerequisites: Upper level undergraduate, graduate and health professional students or cons inst.
This 1-credit course will introduce students to the key concepts of the process of healing, with an emphasis in its practical application. The course will focus in understanding the value of the educational (learn it), personal (live it) and professional (apply it) implications of healing that starts with ourselves and then translates into the communities in which we live and work. Faculty from medicine and other departments will teach the course. The course will meet in the evenings for five 2.5 hour classes for a total of 15 contact hours, including web-based presentations through Learn@UW and using Adobe Breeze PowerPoint presentations with audio.
Course instructor: David Rakel, Mario Salguero, Adam Rindfleisch, and Katherine Bonus.

**ANTRHO 901 Anthropology and International Health**
Credits: 2
Offered: Not Indicated
Crosslists: Anthropology, Women's Studies, International Studies and students of similar disciplines will find this seminar of interest as it explores the anthropology of international health. Consideration of case studies in applied medical anthropology will allow you to identify and interrogate the methods used by practitioners attempting to put specific global health problems in social, political and economic context, with the ultimate goal of deepening our understanding of these problems and strengthening the design of public health interventions. On the macro level, we will also attend to anthropological critiques of the institutions and discourses of international public health and development. Readings will be broadly interdisciplinary, drawing from the literature of medical anthropology, health economics, public health and social epidemiology among others.
Course Instructor: Claire Wendland, MD

**POP HLTH 553 International Health and Global Society**
Credits: 3
Offered: Fall
Prerequisites: Jr or Sr st or.
Crosslists: HIST SCI, MED HIST
Major problems in international health from 1750 to the present. Focus on disease epidemiology and ecology; political economy of health; migration; quarantime; face, ethnicity, and health dare; international health research; cross-cultural healing; mental and maternal health; growth of international health organizations.

**POP HLTH 718 International Health Systems**
Credits: 2
Offered: Not Indicated
Prerequisites: Grad st or cons inst.
Crosslists: Addresses and analyzes differences in health status and methods of organizing and providing health services in countries with varying levels of development and types of socio-political systems. Develops an understanding of the various avenues of international cooperation in health.
Course Instructor: Judith Ladinsky, PhD. Co-faculty from the Global Health Program
Steering Committee: Linda Baumann, School of Nursing, Chris Olsen, School of...
Veterinary Medicine, Connie Kraus, School of Pharmacy, Jonathan Patz, School of Medicine, and Cindy Haq, School of Medicine.

**POP HLTH 904 Special Topics in Epidemiology: Global Health**
Credits: 2  
Offered: Fall or Spring  
Prerequisites:  
Crosslists:  
The purposes of this course are to explore the relationship between globalization and health and provide students with an understanding of: a) major indicators and determinants of health and health disparities across populations, from less to more developed countries; b) the role of epidemiology in developing proven and potential interventions to improve global health and reduce health disparities; and c) methodological and ethical considerations in international health research. The course is also designed to expose students to health research and clinical work of faculty working in range of disciplines relevant to global health, and to help students identify ways in which they might contribute in the future to improvements in international health.  
Course Instructor: Maureen Durkin, PhD, DrPH

**HEALTH POLICY AND ADMINISTRATION**

**LAW 940 Public Health Law**  
Credits: 3  
Offered: Not Indicated  
Prerequisites: Cons instr.  
Crosslists:  
Public health law has traditionally encompassed topics such as quarantine, vaccination programs, and population surveillance. This course will cover those traditional topics, as well as emerging areas of public health policy associated with the intersection between public health and bioterrorism threats; public health and immigration policy; juvenile and domestic violence as public health problems; drug policy; and environmental health. Overall, this new course will emphasize the core legal competencies associated with public health ethics and policy.

**LAW 916: FDA Law**  
Credits: 3  
Offered: Not Indicated  
Prerequisites:  
Crosslists:  
This course will emphasize research, development, approval, marketing and surveillance of new drugs, devices and biologics. Topics include the history of food and drug regulation; regulations governing new drug development; scientific, legal and ethical issues in the design of clinical trials; interplay with patent law in the development of business strategies; post-approval marketing and product liability issues; and proposals for legislative reform. The course will not cover nutritional supplements or food safety except by way of contrast with the drug/device/biologics regulatory system, although some attention will be paid to nutriceuticals. Students will write a research paper in lieu of a final examination.

**LAW 940 Consumer Issues in Health Systems & Health Care Delivery**  
Credits: 3  
Offered: Not Indicated  
Prerequisites: Cons instr.  
Crosslists:
MASTER OF PUBLIC HEALTH PROGRAM

APPROVED ELECTIVES

NURSING 703 Health Care and Public Policy in the US
Credits: 2
Offered: Not Indicated
Prerequisites: Grad st.
Crosslists:
An overview of the development and implementation of health policy in the US includes legislative process, influences on these processes and nursing role. Analysis of health policies, impact of policies on health care systems and health of populations.

POP HLTH 548 The Economics of Health Care
Credits: 3-4
Offered: Fall or Spring
Prerequisites: Econ 301, or Pub Affr 880 or cons inst.
Crosslists: ECON, PUB AFFR

POP HLTH 848 Health Economics
Credits: 1-3
Offered: Not Indicated
Prerequisites: Grad st.
Crosslists: ECON H
Health economics issues including demand, supply and pricing, market structure, medical malpractice, technological change, value of life, role of insurance, and other aspects of uncertainty.

PUB AFFR 873 Introduction to Policy Analysis
Credits: 3
Offered: Not Indicated
Prerequisites: PUB AFFR 880 & 874, or their equivs.
Crosslists:
This course develops skills in policy analysis in two ways. First, it sets out the conceptual foundations for understanding the role of policy analysis in democratic politics. Second, it provides training and experience in policy analysis craft.

PUB AFFR 878 Public Management
Credits: 3
Offered: Not Indicated
Prerequisites: Grad st.
Crosslists: POLI SCI, URB R PL
Role of administration in American government; problems of organization, bureaucracy and control; public policy as the output of the administrative process.

PUB AFFR 880 Microeconomic Policy Analysis
Credits: 3
Offered: Not Indicated
Prerequisites: Grad st & 2 econ crses, including microeconomics.
Crosslists:
The tools and techniques used in the economic approach to policy analysis. Emphasis is on applying these methodological tools to evaluating existing public policies and policy alternatives, as well as providing a deeper understanding of how the economy operates.

PUB AFFR 881 Cost-Benefit Analysis
Credits: 3
MASTER OF PUBLIC HEALTH PROGRAM

APPROVED ELECTIVES

Offered: Not Indicated
Prerequisites: Pub Affr 880 or Pub Affr 818 or equiv.
Crosslists:
Provides concepts, techniques, and conventions for assessing economic efficiency, or components of economic efficiency, when efficiency is only one of the social goals relevant to policy choice. This course provides the conceptual foundations and craft skills to prepare you to be sophisticated consumers and producers of CBA.

PUB AFFR 885 Advanced Public Management
Credits: 3
Offered: Not Indicated
Prerequisites: Pub Affr 880 or cons inst
Crosslists:
Provides techniques that enhance your ability to think analytically about problems of public management, to make good arguments concerning how public management issues might be addressed and to learn about the craft of management by working with practitioners.

PUB AFFR 974 Topics in Public Affairs
Credits: 3
Offered: Not Indicated
Prerequisites: Grad st.
Crosslists: POLI SCI, URB R PI
Current issues in the formulation, implementation, and analysis of public policy

SOC 532 Health Care Issues for Individuals, Families and Society
Credits: 3
Offered: Spring
Prerequisites: Jr st.
Crosslists: CNSR SCI
This course covers issues related to health and health care delivery in our society. Topics include social, cultural and ethical influences on consumer definitions of health and use of medical care, and on the health care system's responses.

METHODS

I SY E 610 Design of Program Evaluation Systems
Credits: 3
Offered: Spring
Prerequisites: Sr or Grad st in ind engr or cons inst.
Crosslists:

I SY E 617 Health Systems Engineering
Credits: 3
Offered: Fall or Spring
Prerequisites: Sr or Grad st in ind engr or cons inst.
Crosslists: LIS
Provides grounding in core concepts health information systems and major applications include Clinical Information Systems, Language and Standards, Decision support, Image Technology and Digital libraries. Evaluation of IE tools and perspectives designed to improve the quality, efficiency and effectiveness of health information.
Formerly I SY E 691

**NURSING 799 Independent Study**
Credits: 1-6
Offered: Not Indicated
Prerequisites: Grad st & cons inst.
Crosslists:

**POP HLTH XYZ Survey Methods for Public Health Professionals**
Credits: 1
Offered: Summer
Crosslists:
This one week course is designed to introduce students to survey research. The course will introduce concepts and terminology of survey research and provide students the opportunity to put into practice elementary principles and concepts of survey research. Students will experience the process of survey question design first hand by creating a self-administered questionnaire (SAQ). Students will learn the advantages and disadvantages of varying modes of data collection, principles of standardized measurement, interviewing, and question design.

**POP HLTH 794 Biological Basis of Population Health**
Credits: 2
Offered: Not Indicated
Prerequisites: Grad st or cons inst.
Crosslists:
This course covers the physiology, biology and biochemistry of selected disease processes deemed to be important to students of population health sciences by virtue of their clinical significance including incidence, mortality and morbidity.

**Pop Health 795 Principles of Population Health Sciences**
Credits: 3
Offered: Fall
Prerequisites: Grad st in Pop Health or cons inst.
Crosslists:
The purpose of the course is to provide students with a foundation for understanding: 1) how population health is defined and measured; 2) the biological, cultural, social, economic, and healthcare determinants of population health; 3) research development and design for studying population health; and 4) prevention and intervention strategies for improving population health.

**POP HLTH 796 Introduction to Health Services Research**
Credits: 3
Offered: Not Indicated
Prerequisites: Grad stdt in population health & Pop Hlth 795; or cons inst.
Crosslists:
Introduces students to a variety of perspectives, substantive areas and methodological approaches to health services research that provide the foundation for understanding the structure, process and outcomes of the U.S. health care system.

**POP HLTH 800 Quantitative Methods in Population Health I**
Credits: 3
Offered: Not Indicated
Prerequisites: Grad stdt in population health and Stat 541 or equiv; or cons inst.
Crosslists:
Topics include: Rates and risks, classical analysis techniques for epidemiologic studies, ordinary and logistic regression.

**POP HLTH 803 Monitoring Population Health**  
Credits: 3  
Offered: Not Indicated  
Prerequisites: Grad stdt in population health & POP HLTH 795, 797, 798, & 800; or cons inst.  
Crosslists:  
Students learn applied techniques for community health assessment -- a core function of public health. Actual population health data (including census, natality, mortality, hospital discharge, behavioral risk factor) are retrieved from the Web for analysis and interpretation.

**POP HLTH 875 Assessment of Medical Technologies**  
Credits: 2-3  
Offered: Not Indicated  
Prerequisites: Grad stdt in population health & Pop Hlth 797 & 800; or cons inst.  
Crosslists: I SY E  
Basic ideas and tools of cost effectiveness analysis as applied in evaluating medical technologies. Addresses special problems and methods in assessing diagnostic technologies, including ROC analysis, and in measuring health for technology assessment. Uses "classical" and current journal literature.

**POP HLTH 876 Measuring Health Outcomes**  
Credits: 3  
Offered: Not Indicated  
Prerequisites: Grad stdt in population health & Pop Hlth 795, 797 & 800; or cons inst.  
Crosslists:  
Provides a comprehensive understanding of health outcome measures, including generic health status measures, disease-specific measures, and consumer reports of the quality of care.

**POP HLTH 877 Economic Analysis for Population Health**  
Credits: 3  
Offered: Not Indicated  
Prerequisites: Grad stdt in population health & Pop Hlth 795, 796, 797, 798 & 800; or cons inst.  
Crosslists:  
The course offers advanced students of population health the opportunity to acquire and familiarize themselves with the central analytical tools of economic analysis as they are applied to problems in population health.

**POP HLTH 990 Research**  
Credits: 1-8  
Offered: Fall or Spring  
Prerequisites: cons inst.  
Crosslists:  

**PUBLIC HEALTH ETHICS**

**LAW 940 Law and Contemporary Problems**  
Credits: 2-3  
Offered: Not Indicated  
Prerequisites: Cons instr.
Crosslists:
Relationship of law to current public issues. Topics reflect interests of instructor and students.

**MED HIST 513 Environment and Health in Global Perspective**
Credits: 3
Offered: Not indicated
Prerequisites: Jr st.
Crosslists: MED HIST, ENVIR SCI
Explores the historical relationships between environmental change and human health from the 17th through the 20th century. Topics include colonialism and disease, medical geography, urban pollution and reform, workplace hazards, environmental risk, and the anti-toxics and environmental justice movements.

**MED HIST 523 Race and American Medicine and Public Health**
Credits: 3
Offered: Irregular
Prerequisites: Jr or Sr st.
Crosslists: MED HIST, AFROAMER
The course will provide historical perspectives on current dilemmas facing black patients and health care professionals.

**MED HIST 545 Ethical and Regulatory Issues in Human Subjects Research**
Credits: 1
Offered: Fall
Prerequisites:
Crosslists: This course will explore and examine the ethical issues central to clinical research, regulations governing clinical investigation, and the role of good clinical practice for clinical trials.

**MED HIST 558 Ethical Issues Raised by Biomedical Technology**
Credits: 3
Offered: Spring
Prerequisites: Jr st or cons inst.
Crosslists: PHILOS
Ethical issues apparently created by new biomedical technologies, such as genetic screening, prenatal diagnosis, prolongation of life, treatment of severe birth defects, in vitro fertilization, behavior modification, psychosurgery, and transplantation.

**MED HIST 559 Topics in Ethics and History of Medicine**
Credits: 3
Offered: Irregular
Prerequisites: cons inst; enrollment may be limited depending on topic and approach.
Crosslists:
A survey of ethical and social issues in medical ethics and history of medicine. Cooperating faculty may be drawn from philosophy, law, medical ethics, history, political science, public health, economics, education, and communication, as well as medicine and the biological sciences.

**MED HIST 668 International Studies Advanced Undergraduate Seminar- Global AIDS: Interdisciplinary Perspectives**
Credits: 3
Offered: Irregular
Prerequisites: Jr st.
Crosslists: HIST SCI
Explores the ways in which HIV/AIDS opens a window on some of the critical social, political, and economic developments of the past three decades. Looking at the world through the lens of HIV/AIDS offers insight into gender and sexuality, globalization, economic development, world trade, drug addiction, religious revivalism, and the place of science and medicine in intimate lives.

MED HIST 905 Bioethics and the Law
Credits: 2-4
Offered: Not Indicated
Prerequisites: cons inst.
Crosslists: LAW
Introduction to the legal, ethical and public policy dimensions of modern medicine and biomedical research. Informed consent, human experimentation, death and dying, organ transplantation, allocation of scarce resources. May cover reproductive and genetic issues in some years.

MED HIST 919 Graduate Studies in Medical History
Credits: 3
Offered: Not Indicated
Prerequisites: Grad st and cons inst.
Crosslists: HIST SCI
Three seminars analyzing the scientific and social aspects of the development of modern medicine in Europe and America; one seminar exclusively on public health

NURSING 802 Ethics and the Responsible Conduct of Research
Credits: 1
Offered: Not Indicated
Prerequisites: Grad st.
Crosslists:
Ethical issues in the design, conduct and reporting of research are examined in the context of the nature of the scientific endeavor, the structure of the research community, and professional and federal guidelines for supporting scientific integrity and controlling misconduct.

POP HEALTH 650 Advanced Seminar in Health and Mental Health Economics
Credits:
Offered: Every other year
Prerequisites: Grad st
Crosslists: Econ
Explores health economics through methods to treatment, prescription drugs, benefits and costs, and analysis of specific issues.