

Course Listing
2006/2007 Academic Year

Department	Prefix	Course Number	Course Name	Description	Credits
CFH	HSC	2100	Contemporary Health Science	A comprehensive approach to health concerns and problems in contemporary society including methods of assessing individual health needs.	3
CFH	HSC	2133	Sex, Health and Decision Making	This course will provide the student with an overview of the issues involving sexual behaviors, decision-making processes and health outcomes. The course will offer a public health perspective of the consequences of risk-taking activities as well as psycho-social and cultural view of antecedent behaviors.	3
PHC	HSC	2933	Selected Topics in Public Health	Overview of major public health and health related issues of interest to undergraduates. Course explores a variety of health topics that are related to improving the health and health behaviors of individuals, groups and communities. Specific topics may vary each semester. No prerequisites. Majors and non majors. May be repeated for up to 6 credits.	1-8
EOH	HSC	3032	Human Structure and Function	This course is designed to introduce the structural levels of the body beginning with chemicals and progressing through cells, tissues, organs and systems with emphasis on homeostasis, stress and feedback systems. Not restricted to majors	3
PHC	HSA	4011	Introduction to Public Health	A survey of policies and programs in public/community health with emphasis on specific needs and problems of Florida.	3
CFH	HSC	4134	Prevention of Mental Illness	This course explores the contributions of prevention science and public health in impeding the development of mental disorders and the events that lead to mental disorders with the major focus on childhood.	3
CFH	HSC	4161	Health, Behavior and Society	This course focuses on an ecological perspective of the determinants of health including biology, individual behavior, social relationships, social stratification, institutions, neighborhoods and communities, environment, policies and globalization.	3

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CFH	HSC	4423	Foundations of Maternal and Child Health	This course provides an overview of maternal and child health issues and trends. With this primary aim, the objectives are organized around the knowledge of health assessment and interventions for families and children.	3
GH	HSC	4504	Foundations of Public Health Immunology	This course provides an overview of the principles of immunology and an introduction to the applications of immunology and immunologic techniques used in the surveillance, prevention and control of diseases of public health importance.	3
CFH	PHC	4542	Stress, Health, and College Life	The purpose of this course is to examine the relationship between stress, as a multi-casual concept, health and disease. Focus areas include: the historical evolution and current theories of stress as they relate to types of stressors, physiological reactions and predisposition to disease, and techniques related to the recognition and prevention of an unhealthy level of stress.	3
CFH	HSC	4531	Medical Terminology	This course provides a unique educational program to improve the student's medical vocabulary. The course includes medical and scientific content information, which students encounter in other health professional courses. Not restricted to any major.	3
CFH	HSC	4554	Survey of Human Diseases	An overview of the nature, types, and mechanisms of diseases of the major body systems. PR: Fundamentals of Biology with lab or CI.	3
PHC	HSC	4933	Special Topics in Public Health	Content will be governed by student demand and instructor interest. May be repeated for credit for different topics only. PR: CI.	1-6
EPB	PHC	6000	Epidemiology (Core Course)	Study of epidemiological methods to evaluate the patterns and determinants of health and diseases in populations. PR: CI.	3
EPB	PHC	6017	Design and Conduct of Clinical Trials	The course will familiarize students with the issues in the design and conduct of clinical trials. Factors involved in organizing a trial, randomizing subjects, implementation, and analyzing data from the study will be considered. PR: PHC 6050, PHC 6000, and CI.	3
EPB	PHC	6050	Biostatistics I (Core Course)	Concepts, principles, and methods of statistics applied to public health issues. PR: College algebra or CI.	3
EPB	PHC	6051	Biostatistics II	Simple and Multiple linear regression, ANOVA (Analysis of Variance), and ANCOVA (Analysis of Covariance), Model building procedure and diagnostocs with applications in health research. PR: PHC 6000 and PHC 6050 or CI.	3
EPB	PHC	6053	Categorical Data Analysis	Study of techniques used in analyzing data where subjects have been cross-classified by two or more categorical variables. Special emphasis given to problems frequently arising in epidemiology, public health, and medicine. PR: PHC 6051 or CI.	3

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EPB	HSC	6054	Design and Analysis of Experiments for Health Researchers	An interdisciplinary overview of design and analysis of experimental and observational studies. Emphasis on applications in biological, clinical and health-related fields. Computer software used. PR: PHC 6051, PHC 6701 or CI.	3
EPB	HSC	6055	Survival Analysis	A study of statistical methods for analyzing censored life time data with applications in health sciences. PR: PHC 6051, PHC 6701 or CI.	3
EPB	HSC	6056	Survey Sampling Methods in Health Sciences	An interdisciplinary overview of survey techniques with applications in health sciences. Discussions on questionnaire design, measurement error, data collection modes, data management, use of computer software and statistical analysis. PR: PHC 6050, PHC 6701 or CI.	3
EPB	PHC	6057	Biostatistical Inference I	This course is primarily designed for students majoring in Biostatistics; emphasis is given to understanding and mastering of biostatistical theory and methods such as probability distribution, expectations, estimation and hypothesis testing. PR: Undergraduate calculus or equivalent.	3
EPB	PHC	6060	Biostatistical Case Studies and Consulting I	This course provides hands on experience in biostatistical consulting. Biostatistical methods and computer skills are presented, along with the skills required for participating in collaborative and consultative research roles. A foundation for biostatistical consultation is presented, involving the goals, content, conduct, and presentation of Biostatisticians working in applied health settings. Students apply these principles to at least one consultative project and one collaborative project. PR: Entry into Biostatistics doctoral program or CI.	3
EPB	PHC	6061	Biostatistical Case Studies and Collaboration II	This course prepares students to join an active biostatistical analyst of a multidisciplinary research group. This collaborative role requires knowledge of successful grant writing and review, site visits, and formal presentations of analytical results. Special issues in collaborating research at a distance are discussed. The biostatistical methodology and theory pertaining to collaborative research projects chosen by the students is covered in formal lectures. PR: PHC 6060 or CI.	3
EPB	PHC	6074	Epidemiology of Diseases of Major Public Health Importance	A study of the distribution and determinants of specific infectious and non-infectious human diseases of public health importance using epidemiological methods. PR: PHC 6000, PHC 6050, and CI.	3
EPB	PHC	6075	Cancer Epidemiology	The course will consider the extent of the cancer problem, present the epidemiology of the major cancer sites, including those of the respiratory, digestive and reproductive systems, and evaluate the potential for primary and secondary preventive efforts. PR: PHC 6000 or CI.	3

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EPB	PHC	6076	Cardiovascular Disease Epidemiology	A review of the major issues in cardio-vascular disease epidemiology, including trends, the extent of the disease nationally and internationally, implications of major epidemiologic studies, and strategies for prevention. PR: PHC 6000 or CI.	3
HPM	PHC	6102	Principles of Health Policy and Management (Core Course)	General principles of planning, management, evaluation, and behavior of public and private health care organizations at the local, state, and national levels. PR: CI.	3
HPM	PHC	6104	Management of Public Health Programs	Application of principles and methods for organization and management of government and non-government public health programs. PR: PHC 6102 and CI.	3
GH	PHC	6106	Global Health Program Development and Administration	This course will provide students with a solid knowledge base in managing global health programs and projects that will serve them in their field experiences and in any one of the seven focus areas available within the Global Health Concentration. CR: PHC 6102	3
HPM	PHC	6110	International Health and Health Care Systems	Study of global health problems and trends, translated to needs and demands; socioeconomic and political impact on health delivery; prevailing international systems compared to U.S. system; the role of international health agencies. PR: CI.	3
HPM	PHC	6111	Global Primary Health Care Strategies	This course addresses the rationale, planning, and implementation of primary health care programs from an international perspective. Emphasis is given to primary care as an integral part of the health care system and as an essential component of public health. PR: PHC 6151, PHC 6102, PHC 6180, PHC 6110 or CI.	3
GH	PHC	6112	Global Health Assessment Strategies	This course will provide research methods for evaluation of public health interventions in developing countries requiring a large-scale field trials approach. The course gives technical tools and computing skills for large public health field studies. CR: PHC 6000, PHC 6050	4
HPM	PHC	6114	Managed Care	This course provides a comprehensive overview of managed care principles, objectives, types and models, relevant policy issues and management functions and practices applicable to managed care settings. Students will develop an understanding of the impact of managed care on cost, quality and access, and on provider organizations and communities.	3
GH	PHC	6115	Global Health Principles and Contemporary Issues	This course introduces students to the global context of public health and its dimensions particular to international settings; examines major themes and policies in global health; and analyzes health problems and varying responses globally.	3

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CFH	PHC	6116	International Health Education	This travel abroad course compares the practice and venues of health education as they occur in another country with those in the United States. Specific course location varies. Focus is on comparative assessment of individual and community health education needs, program planning, implementation, and evaluation, coordination and administration of programs, resource availability, health communication mechanisms, application of research principles, and status of the health education profession. PR: Graduate Status.	3
CFH	PHC	6120	Community Partnerships and Advocacy	Designed to familiarize students with key aspects of developing partnership among private and public sector organizations for the purposes of assessing and improving the health of communities. Particular skills include coalition development, developing a constituency/partnerships, advocacy, team building, and leadership.	3
HPM	PHC	6146	Health Services Planning and Evaluation	Study of health services planning concepts/methods, and evaluation, with an emphasis on facilities and manpower planning, providing an in-depth orientation to information requirements for health planning, and methods to cover gaps of information. PR: PHC 6050 or CI.	3
HPM	PHC	6147	Managing Quality in Health Care	Study of methods and tools for managing quality in health care. The developments in applications of quality assurance, utilization review, continuous quality improvement, and total quality management in health services including hospitals, managed care, and public health.	3
HPM	PHC	6148	Strategic Planning and Healthcare Marketing	The course reviews the fundamental steps in the strategic planning process and marketing approaches for health care organizations. The textbook and exercises emphasize non-profit organizations. PR: PHC 6102, or CI.	3
HPM	PHC	6150	Health Policy Analysis	A detailed study of policies, policy making, and policy analysis in health services and their relationship to health planning, management, and health care delivery. PR: PHC 6102, or CI.	3
HPM	PHC	6151	Health Policy and Politics	This course will examine the role of federal, state, and local government in health care organization, delivery, and financing in the United States and other	3
HPM	PHC	6160	Health Care Financial Management	An introduction to the application of financial management practices in health care organizations, cost behavior analysis, working capital management, financial statement analysis, and capital decision making. PR: At least one undergraduate course in Financial or Managerial Accounting and PHC 6102 or CI.	3
HPM	PHC	6161	Health Care Finance Applications	A case method approach to the financial management of health care organizations. Quantitative decision analysis techniques, costing methods, and financial policy analysis skills are emphasized. PR: PHC 6102 and ACG 6025 or PHC 6160 or CI.	3

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HPM	PHC	6180	Health Services Management	Advanced study of specific topics in health care organization management including the managerial process, organization theory, resource utilization and control, and human resource management. PR: PHC 6102 and undergraduate accounting course or CI.	3
HPM	PHC	6181	Organizational Behavior in Health Services	Investigates the impact that individuals, groups, and structure have on behavior within organizations. The application of such knowledge is used toward advancing the effectiveness of health care and related organizations. Special consideration is given to human resource applications. Case studies and other exercises are used. PR: PHC 6102 or CI.	3
GH	PHC	6182	Overview of United States and International Emergency/Disaster Management	Public Health and other professionals will be given an overview of the disaster management process. Provides terms, definitions, and concepts of emergency management from a local, national, and international perspective.	3
HPM	PHC	6183	Advanced Seminar in Health Care Management	The course further develops analytic and decision-making skills regarding health services issues and problems. Students integrate and apply content from previous courses, (including finance, management policy, strategy, and	2
GH	PHC	6184	Emergency/Disaster Recovery	The content of this course is designed to expose the concepts of: (1) recovery models used by the United States and international operations, (2) recovery planning and response to a disaster environment, especially in terms of major disaster incidents, (3) broadening and enhancing the understanding of roles and responsibilities, and (4) the importance to the overall recovery effort. In addition to the United States and international focus, the course also addresses the coordination and problem solving aspects of disaster operations. PR: PHC 6182.	3
GH	PHC	6185	Emergency/Disaster Preparedness and Planning	Emergency Preparedness and Planning provides an overview to preparedness strategies, emergency planning, and assessment of hazards and resources. The course provides intermediate level direction and builds upon planning concepts learned in Overview of United State and International Emergency Management. Studies include in-depth planning and analytical framework, hazard/vulnerability analysis, and management. PR: PHC 6182.	3

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GH	PHC	6186	Public Health Emergencies in Large Populations	To develop or improve the skills of persons interested in providing emergency health services in humanitarian emergencies. The course is divided into two parts: (1) meeting health needs large populations and (2) the humanitarian and ethical issues of refugees and displaced people. Topics covered include food and nutrition, water and sanitation, providing health services, reproductive health, control of communicable diseases, humanitarian law, human rights, ethics, and the geopolitical issues related to population displacement particularly from conflict.	3
HPM	PHC	6191	Quantitative Analysis in Health Care Management	This course examines the use of quantitative modeling in the management of health care organizations. Emphasis is given to the application of standard modeling techniques to operational problems in health and medical care settings. PR: PHC 6050 and PHC 6180, 6430, and 6151, or CI.	3
CFH	PHC	6193	Qualitative Methods in Community Health Research	This course provides classroom instruction and field application of qualitative research methods for studying community health problems. It provides a general introduction to ethnographic field methods, emphasizing systematic approaches to collection and analysis of qualitative data. Students will learn to identify the kinds of research problems for which qualitative methods are appropriate, and to critique qualitative research in terms of design, technique, analysis and interpretation.	3
HPM	PHC	6196	Information Systems in Health Care Management	The course is designed to prepare students to analyze and design information systems in health services organizations. PR: PHC 6050 or CI.	3
CFH	PHC	6197	Community Health Data Sources and Technology	The purpose of this course is to provide experience in the management and analysis of data sets relevant to public health. Among the data sets considered are vital statistics, health care utilization databases, practitioner and other registries, periodic surveys, selected surveillance systems, and programmatic data.	3
HPM	HSA	6197	Advanced Information Management and Retrieval	Advanced concepts and application of information management and retrieval in health care. Emphasis is on the theoretical considerations and practical application of information management and retrieval. PR: PHC 6196.	3
GH	PHC	6230	Foundations in Humanitarian Assistance	This course is designed to develop or improve the skills of persons interested in providing emergency health services in international humanitarian emergencies. PR: None	3

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GH	PHC	6231	Organizing Emergency Humanitarian Actions	Topics to be covered in this course include the: use of early warning systems, logistics, security of food, safety, assessment and surveillance, epidemiology, malnutrition, feeding programs, water and sanitation, shelter, and communicable diseases. PR: Foundation in Humanitarian Assistance	3
GH	PHC	6232	From Emergency to Development and Prevention	This course includes: resources, training for local agencies, basic services, cultural issues, Sphere Projects Minimum Standards, basic services, women after a disaster, and health service program. PR: Organizing Emergency Humanitarian Actions	3
GH	PHC	6233	Current Challenges in the Humanitarian Field	This course will review: leadership issues, advocacy, neutrality and impartiality, the media, prisoner visitations, torture, demobilization and decommissioning of combatants, expatriates, peace-keeping to peace-building, sovereignty, and reconstruction. PR: From Emergency to Development and Prevention	3
GH	PHC	6251	Disease Surveillance and Monitoring	A review of epidemiological principles and methods used in the development and practice of disease and infection surveillance, prevention and control for public health in general and the hospital setting in particular. Basic epidemiological concepts will be focused on communicable diseases, nosocomial infections, environmental exposures, and emerging diseases. PR: Biostatistics, Epidemiology, or CI.	3
EOH	PHC	6301	Analysis of Water and Wastewater	A study of treatment systems for water and wastewater. Emphasis is given to problems encountered in current technologies, health effects and environmental impact. PR: CHM 3610C or CI.	3
EOH	PHC	6302	Municipal Sanitation	A study of environmental sanitation activities, programs, and issues of local government. PR: PHC 6357 or CI.	3
EOH	PHC	6303	Community Air Pollution	A study of air pollutants. Emphasis is given to sources and control technologies, as well as health effects and environmental impact. PR: CHM 3610C or CI.	3
EOH	PHC	6304	Environmental Health Microbiology	Techniques for isolation and enumeration of microorganisms of health significance from food and aquatic sources. PR: MCB 3010C or CI.	3
EOH	PHC	6305	Chemical Methods in Environmental Health	Techniques used in quantitative and qualitative chemical analyses for determining water quality. PR: CHM 3610C or CI.	3
EOH	PHC	6306	Radiation Health Principles	An analysis of the basic concepts of radiation and the protection of individuals and population groups from ionizing and non-ionizing radiation as well as establishing relationships between radiation exposure and biological damage. PR: CI.	2

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EOH	PHC	6310	Environmental Occupational Toxicology	A study of the nature of industrial and environmental toxins and toxic by-products, generated and distributed, leading to disease, disability, or death, and the control measures available. Lecture and appropriate laboratory methods are used. PR: CI.	3
EOH	PHC	6312	Environmental Fate of Chemical Releases	Provides an understanding of the environmental and physio-chemical factors involved in the transport, transformation, and fate of compounds released to the environment. Material covered includes sources of chemical releases as well as the factors affecting the distribution and transformation of chemicals. Routes of exposure and accumulation by humans and other organisms will also be evaluated. PR: CHM 2046, PHY 2054, MAC 2312 or CI.	3
EOH	PHC	6313	Indoor Environmental Quality	Students will learn the importance of maintaining acceptable indoor environmental quality in occupational and residential settings. The course will emphasize current techniques, data interpretation methods, and proper data / conclusions reporting. PR: None	2
GH	PHC	6314	Infection Control Program Design	This course will review educational program design for health care workers, instructional methods, personnel and financial resource management, role of Infection Control (IC) personnel, development of goals, mission statements, action plans for IC, evaluation of programs, communication with administration, physicians and care givers. PR: CI.	3
EOH	PHC	6350	Occupational Health Risk Assessment	A study of methods for assessing potential hazards associated with occupational health environments. Evaluation of techniques for the development of comparative rankings of problem areas. PR: PHC 6050 OR CI.	3
EOH	PHC	6351	Occupational Medicine for Health Professionals	Designed to enhance the skills of select health professionals in identifying, evaluating and charting a course of action for medical conditions resulting from occupational exposures and hazards. PR: CI.	2
EOH	PHC	6353	Environmental Risk Assessment	Designed to provide training for students to develop the skills necessary to identify, characterize, quantify, and manage human health and ecological risks for the protection of human health and the environment. PR: CI.	2
EOH	PHC	6354	Safety and Health Administration	A study of techniques and administrative practices which are instrumental in the initiation and maintenance of programs and procedures that are geared to prevent and reduce work related injuries, illnesses, and discomfort.	2
EOH	PHC	6356	Industrial Hygiene	A study of the recognition, evaluation, and control of the workplace affecting the health of employees. PR: CI.	2

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EOH	PHC	6357	Environmental and Occupational Health (Core Course)	The study of major environmental and occupational factors that contribute to development of health problems in industrialized and developed countries. PR: CI. College Core Course	3
EOH	PHC	6359	Xenobiotic Metabolism in Environmental and Occupational Health	Study of enzymes involved in bio-transformation of foreign compounds important in environmental and occupational health	3
EOH	PHC	6360	Safety Management Principles and Practices	A study of safety management as it relates to hazard identification, accident investigation and training, enabling the safety manager to reduce costs to business, industry, and government. PR: CI.	2
EOH	PHC	6361	Industrial Ergonomics	Systems logic and methodology for assessing the potential impact of work environments on the health and safety of workers; application of occupational ergonomics and human factors to the design and evaluation of complex work environments. PR: PHC 6360 or CI.	2
EOH	PHC	6362	Industrial Ventilation	Basic principles of fluid mechanics and exhaust ventilation are employed in the design and evaluation of the performance of industrial ventilation systems. PR: PHC 6356 or CI.	2
EOH	PHC	6364	Industrial Hygiene Aspects of Plant Operations	Field visits to industrial plants will be conducted so as to familiarize students without prior experience to the health hazards associated with various processes and the methods of control employed to prevent excessive exposures. PR: PHC 6356 or CI.	2
EOH	PHC	6367	Control Aspects of Industrial Hygiene	This course maps out the framework for industrial hygiene controls with an emphasis on engineering controls, administrative controls and personal protection. It is the capstone course for industrial hygiene students, who will apply their knowledge of hazard evaluation to the appropriate selection of controls. PR: PHC 6356, PHC 6358.	2
EOH	PHC	6368	Industrial Toxicology	This course will focus on specific industries, industrial processes and the chemicals which workers may be potentially exposed to, and their impact on Public Health. The Standard Industrial Classification (SIC) division structure will be used to identify industries that have been studied by NIOSH or other agencies. For each industry identified, chemical hazards, exposure routes, toxicology effects, and monitoring methods will be discussed emphasizing the need for a multidisciplinary approach in providing information aimed at reducing worker exposures to industrial toxicants.	2

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EOH	PHC	6370	Biological and Surface Monitoring	Provides students with a thorough understanding of Biological Monitoring as a method of evaluating exposure to environmental agents. Students learn how to develop sampling strategies for specific chemicals. Pr: CHM 2200, CHM 2211, BCC 2010 and CI.	2
EOH	PHC	6371	Air Dispersion Modeling for Regulatory Compliance	A study of air pollution meteorology (atmospheric energy balance, inversions and winds), micrometeorology (atmospheric fluid mechanics, turbulence, winds, stability classes, convective boundary layer) and atmospheric diffusion (theories, Gaussian plume equation, air quality models, atmospheric removal processes), supported by a computer laboratory.	3
CFH	PHC	6401	Homelessness: Implications for Behavioral Healthcare	A study of the structural, personal, treatment, and sociopolitical issues related to homelessness. Causes of homelessness from structural and personal factors are explored. Quantitative and qualitative data are reviewed to examine the experience of homelessness, pathways into homelessness including mental health, substance abuse, and violence/trauma. A special focus will be on the research conducted by the instructors on services for homeless families and the prevention of homelessness among individuals with severe mental illness.	3
CFH	PHC	6410	Social and Behavioral Sciences Applied to Health (Core Course)	A review of the conceptual, empirical, and theoretical contributions of the Social and Behavioral Sciences as they contribute to an understanding of health and illness. PR: CI. College Core Course	3
CFH	PHC	6411	Introduction to Social Marketing for Public Health	This course is designed to analyze the components and applications of social marketing for public health: theoretical foundations; research methods; strategy development; program design and implementation, material pretesting, and ethics. PR: CI.	3
CFH	PHC	6413	Family and Community Violence in Public Health	The objective of this course will be to identify and to focus on the most serious policy and research issues which are specific to the field of family violence. The course will cover theory, research, and applied programs in community settings.	3
CFH	PHC	6414	Adolescent Health	The purpose of this course is to provide an overview of adolescent health issues and trends. With this primary aim, the objectives are organized around the knowledge of health assessment and interventions with adolescents and the skills needed for effective teaching methodologies to enhance health provider communication with adolescents. This course is not restricted to Public Health graduate students.	3

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CFH	PHC	6418	Public Health and Aging	A study of specific health promotion and disease prevention strategies for older adults in the context of community health, immunizations, nutrition, exercise, and stress management. Also, management of chronic disease, delay of disabilities, and types of long term care delivery and settings are examined.	3
CFH	PHC	6419	Global Issues in Community and Family Health	This course provides an overview of current public health issues and problems affecting communities and families around the world. A comparative approach is taken to highlight similarities and differences across countries at variable levels of socioeconomic development. Problems are addressed in terms of etiology, impact and intervention strategies. Reg. Permit Required. CI.	3
HPM	PHC	6420	Health Care Law, Regulation and Ethics	This is a survey course of the most significant issues in health care law. Core topics include licensure, malpractice, reproductive issues, the right to die, and managed care. Students will develop and understanding of substantive law, legal decision making, and the relationship between health care law and ethics. Graduate students from other departments may take the course.	3
HPM	PHC	6421	Public Health Law and Ethics	This course provides students with an overview of major ethical and legal concepts and their impact on public health practice and challenges students to consider the relationship among ethics, law, and public health practice and policy. The course considers the role of the legal system in resolving public health problems, through the legislature, the courts, and administrative agencies.	3
EOH	PHC	6422	Environmental Health Law	Review and analysis of Federal and State Laws and Regulations in relation to the pollution, regulation and protection of the air, water and environment issues in general. PR: PHC 6357	2
EOH	PHC	6423	Occupational Health Law	Review and analysis of Federal and State Laws and Regulations in relation to occupational health and safety. PR: PHC 6357.	2
HPM	PHC	6430	Health Economics I	Microeconomic analysis of the structure of the health care industry and economic incentives facing physicians, patients, and hospitals. PR: ECO 2023 or equivalent and CI.	3
HPM	PHC	6433	Health Economics II	Second of a two-part sequence surveying various applications of economic principles and methods to current issues in public health. Emphasis on efficiency goals of health care policy and the use of economic analysis in the	3

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HPM	PHC	6435	Economics of Health Insurance	Presents an overview of major health insurance issues, including demand, supply, employment based coverage, the uninsured, government sponsored programs, managed care, and national health insurance. The format makes extensive use of a wide variety of textbooks and journal articles. The analysis will be based on micro-economic tools and is intended for management or policy-oriented students with an interest in health insurance and managed care. PR: PHC 6430 or CI.	3
CFH	PHC	6441	Social Determinants of Health	The course provides students with a basic understanding of our society's most pervasive social disparities in health status and prepares students to evaluate underlying theories and promising interventions related to social determinants of health. PR: PHC 6410.	3
GH	PHC	6442	Global Health Applications in the Field	This course prepares students for fieldwork in the global public health arena. A comparative approach is taken to highlight similarities and differences across countries at variable levels of socioeconomic development.	2
GH	PHC	6450	The Public Health Laboratory System	This course deals with the roles of the public health laboratory in the Public Health System and thus familiarizes the student with the types, functions and interactions of Public Health Laboratories.	3
EOH	PHC	6451	Protecting Public Health: Bioterrorism and Biodefense	The theoretical, historical and contemporary issues associated with public health protection and safety. This includes quarantine, health and safety management, homeland security, and the history of biological warfare.	3
CFH	PHC	6500	Foundations of Health Education	Study of the historical, social and cultural factors influencing health behavior and the practice of health education. PR: CI.	3
CFH	PHC	6505	Health Education Program Planning	Analysis of the planning and development process for health education programs. PR: PHC 6500 or CI.	3
CFH	PHC	6506	Community Health Education	Analysis of major community health problems, their causes, the roles of individuals, community institutions, and government in effecting solutions. Emphasis is upon participation and organization for community health. Class and field work sessions. PR: PHC 6500 or CI.	3
CFH	PHC	6507	Health Education Methods	Prepares student to analyze and incorporate effective content and process in health education program delivery. Course not restricted to health education majors. PR: PHC 6500 or CI.	3
CFH	PHC	6508	Case Studies in Health Education	An assessment of selected case studies in health education with an emphasis on application, analysis, and evaluation of health education theory and practice to public, private, health care, and school settings. PR: PHC 6500, 30 semester hours toward the MPH, or CI.	3
GH	PHC	6510	Exotic and Emerging Infectious Diseases	A study of human infectious disease with particular emphasis upon diseases caused by parasites, viruses, bacteria, and fungi found in sub-tropical and tropical environments. PR: CI.	3

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GH	PHC	6511	Public Health Immunology	Immunology as applied to public health. Emphasis is upon applications of immunology and immunological techniques used in surveillance, prevention, and control of public health problems. PR: CI.	3
GH	PHC	6512	Vectors of Human Disease	Biology of the vectors of human disease: major groups include the arthropods, mollusks, and mammals. Emphasis on the ecology of the vectors and their transmission of pathogens as they relate to public health. PR: CI.	3
GH	PHC	6513	Public Health Parasitology	Human diseases caused by parasite infection with emphasis on diseases related to environmental exposure and of public health importance. Major groups include the protozoans, cestodes, trematodes, and nematodes of human diseases. PR: CI.	3
GH	PHC	6514	Infectious Disease Control in Developing Countries	Focuses on disease control strategies for selected infectious and communicable diseases. Diseases covered have been selected on the basis of their relative contribution to the burden of disease in developing countries. PR: PHC 6000.	3
GH	PHC	6517	Infectious Disease Prevention Strategies	This course focuses on surveillance criteria, outbreak criteria, data collection and study design. Also included will be data analysis and reporting; interaction with public health agencies; preparation for Joint Commission on Accreditation of Healthcare Organizations (JCAHO); prevention and intervention; sanitation, disinfection, antisepsis and sterilization; role of immunization, antimicrobial prophylaxis and therapy. PR: CI.	3
CFH	PHC	6521	Public Health Nutrition	An analysis of nutritional issues concerned with health and disease. Biological and social interactions are studied as they relate to the development, monitoring, and evaluation of community nutrition intervention programs. PR: CI.	3
CFH	PHC	6522	The Biological Role of Nutrition in Health	Advanced study of the biochemical and physiological roles of nutrition in health and disease. PR: HUN 3201, ZOO 3713C, PCB 4743, BCH 3023, or CI.	3
CFH	PHC	6523	Policies and Practices in Maternal and Child Nutrition	Study of nutrition policies and practices in maternal and child health from pregnancy through the preschool years. Focus on issues concerned with risk identification, interventions and outcome evaluations. PR: CI.	3

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CFH	PHC	6524	Public Health Nutrition for the Adult and Aging Population	Study of policies and practices of nutrition in health promotion and disease prevention in adults. Focus on issues concerned with risk identification, nutrition interventions and outcome evaluations. PR: PHC 6521, PHC 6522, or CI.	3
CFH	PHC	6526	Nutrition Assessment of Individuals and Communities	Comparative study of anthropometric, biochemical, dietary, clinical and socioeconomic indicators of nutritional status including the differential use of these indicators for individuals and communities. PR: PHC 6521, PHC 6522, or CI.	3
CFH	PHC	6527	Case Studies in Public Health Nutrition	Capstone course intended to provide a unifying opportunity to utilize concepts, principles and skills learned from other public health nutrition courses. PR: CI.	3
CFH	PHC	6530	Maternal and Child Health I: Issues and Concepts	The purpose of this course is to provide for the foundation of Maternal and Child Health for students who will be concentrating in this area or as an overview for non-majors. PR: CI.	3
CFH	PHC	6531	Health Programs for Children with Special Needs	A study of causative factors, characteristics, care needs and programs for handicapped children with emphasis on health and health care issues. PR: CI.	3
CFH	PHC	6532	Women's Health Issues in Public Health	A public health orientation of women's health needs with their impact on society, family and children. PR: CI.	3
CFH	PHC	6533	Health Program Development and Change Process	A study of approaches to program development, implementation and management of change process in maternal and child health. PR: CI.	3
CFH	PHC	6534	Cultural Competency in Children's Mental Health	The course will explore the need of cultural competence in provision of mental health services in multicultural society. The course will examine culture and ethnicity, multiculturalism, and intercultural communication. The course will define cultural competence from the perspective of the current different approaches to the concept, and examine cultural competence at both mental health systems and service provision levels. Case studies of how cultural competence is implemented by different mental health organizations will be examined. PR: Graduate status.	3
CFH	PHC	6535	International Maternal and Child Health	The course examines current priorities for improving the health of mothers and children in developing countries. The emphasis is on understanding MCH issues within the larger context of primary health care and sociocultural factors which influence behavior. PR: CI.	3
CFH	PHC	6536	Population and Community Health	Population information and applications in health programs. Topics include: population growth and decline, structure, distribution, fertility, morbidity and mortality, and migration as applied to maternal, child and community health. PR: PHC 6410 or CI.	3

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CFH	PHC	6537	Maternal and Child Health II: Case Studies in MCH Programs, Policies, and Research	Capstone course intended to provide unifying opportunity to utilize concepts, principles, and skills learned in other MCH and public health courses. PR: PHC 6530, Core Courses or CI.	3
HPM	PHC	6540	Public Mental Health	Current state of community mental health emphasizing history and future of the movement and involvement of public agencies; methods, goals, evaluation of treatment, funding and administration of programs. PR: CI.	3
HPM	PHC	6541	Public Mental Health Administration	General principles of management theory, methods, administrative processes, and organizational structure of public and private mental health organizations in hospital and ambulatory care settings. PR: PHC 6540, PHC 6102, or CI.	3
EPB	PHC	6542	Epidemiology of Mental Disorders	A study of the factors that determine the frequency and distribution of mental disorders in human populations. Mental health intervention strategies also will be explored. PR: PHC 6540, PHC 6000, or CI.	3
CFH	PHC	6543	Foundations in Behavioral Health Systems	This web-based course is a graduate course in behavioral health within the Department of Community and Family Health. It is designed to provide the graduate student with an overview and understanding of the significant issues and trends in community and family mental health delivery systems in America. Four major areas of mental health will be emphasized: (1) history and legislation; (2) systems delivery; (3) programs and policies; (4) and selected at-risk populations. PR: Graduate Status.	3
CFH	PHC	6544	Children's Mental Health Services	The content of this course is designed to prepare professionals to work in partnership with families and other professionals and participate in interdisciplinary teams in a variety of settings to meet the needs of children with mental health problems. PR: CI. permit required.	3
CFH	PHC	6545	Evaluation in Mental Health	A study of theories and practical approaches to the development of evaluative methods for behavioral health. PR: PHC 6050 (Biostatistics I) or equivalent.	3
CFH	PHC	6547	Case Management in Community Mental Health	This course focuses on case management systems with a special emphasis on clinical case management for vulnerable populations, especially persons with severe mental illness and older adults. The course is designed for persons who are interested in providing case management services, managing such services, or have an interest in the field. The course examines elements critical for the effective provision and evaluation of case management services. PR: Graduate status.	3

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CFH	PHC	6548	Grant Writing in Mental Health	This course focuses on the process and problems of grant writing in mental health. The course is designed for persons who are interested in identifying and evaluating mental health research questions and demonstration projects. The curriculum examines criteria for good mental health research and provides students with tools for successful grant writing. Students will learn how to develop and market fundable project ideas, where to start, what funding agencies look for, and how to construct a fundable mental health proposal. PR: Graduate status.	3
CFH	PHC	6549	HIV and Mental Health	This course will provide students with an interdisciplinary understanding of HIV/AIDS, focusing primarily on behavioral health and ethical issues. Students will study the unique contributions to prevention and treatment that both mental healthcare workers and theories can make to persons affected by HIV. PR: Graduate Status.	3
CFH	PHC	6550	Community-Based Prevention in Behavioral Health	This web-based course is a graduate course within the Department of Community and Family Health. It is designed to provide the graduate student with an overview and understanding of the significant issues and trends in community and family behavioral health with an emphasis on behavioral health promotion and disease prevention. Major areas are: (1) overview of promotion and prevention in the United States; (2) systems delivery; (3) programs and policies; (4) and selected at-risk populations. PR: Graduate Status.	3
EOH	HSC	6556	Pathobiology of Human Disease I	A basic study of broad pathobiological areas of biological injury, genetic and in-born errors of metabolism, and host-parasite relationships. In addition, the pathobiology of human disease is closely related to general biology in order to provide a strong foundation for the public health student. PR: CI.	3
EOH	HSC	6557	Pathobiology of Human Disease II	Overview of the distinct pathogenesis and etiology and selected acute and chronic diseases and their preventive aspects and impacts on the health care system. Provides basic knowledge of disease and illness patterns and their relationship to health planning. PR: HSC 6556 and CI.	3
GH	PHC	6562	Microbiology for Healthcare Workers	An overview of contemporary microbiology, with emphasis on the significance of microorganisms in the environment and clinical disease. The structure, physiology, molecular genetics, taxonomy, immunological and clinical aspects, and public health implications of microorganisms will be covered. PR: BSC 2010, BSC 2011, CHM 2046, or CI.	
CFH	PHC	6590	Reproductive Health Trends and Issues	Provides understanding of reproductive factors in health and disease and its impact on community, family, and individual quality of life and to apply current advances in FP and maternal child health care components and management in public health programs. PR: CI.	3

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CFH	HSC	6641	Prevention and Control of Unintentional Injuries	Prepares students to critically analyze the nature, magnitude and intervention strategies of unintentional injuries and propose new directions for prevention and control. Not restricted to public health majors. Has lecture sections and is not cross-listed PR: CI.	3
EPB	PHC	6700	Research Methods in Epidemiology	Planning, execution, analysis, and intervention of epidemiological studies. PR: PHC 6000, PHC 6050, and CI.	3
EPB	PHC	6701	Computer Applications for Public Health Researchers	Course covers essential computer-based techniques for a public health researcher; data entry, editing, management, sub-sample selection and data encryption for confidentiality are all covered. SAS is used extensively. Course open to all graduate students. PR: CI.	3
CFH	PHC	6705	Formative Research Methods in Social Marketing	This course is designed to familiarize students with the basic principles and techniques in conducting formative research for social marketing program development. The major topics covered include: principles of formative research design, qualitative data collection methods, interviewing techniques, qualitative data analysis, survey design, pretesting, and implementation, ethical principles and protection of human subjects. PR: Introduction to Social Marketing.	3
CFH	PHC	6706	Focus Group Research Strategies	This course is an intensive overview of focus group procedures in the public health environment. Attention will be placed on question development, moderator skills, analysis strategies and planning critical logistical details of focus group interviews, and analyzing results of focus group interviews. The course will examine unique methodological characteristics of focus group interviews, identify emerging trends, and explore areas of appropriate and inappropriate use.	3
CFH	PHC	6708	Evaluative Approaches to Community and Family Health Education Programs	Examination of research and evaluation issues in health education. Includes methods for designing studies in schools and other educational settings in the community. PR: PHC 6500 and PHC 6505 or PHC 6530 or CI.	3
EOH	PHC	6712	Air Pollution Research Seminar	This seminar course is designed to facilitate communication and sharpen research skills in the context of air pollution monitoring and modeling.	1
CFH	PHC	6715	Research Foundations in Public Health	This course covers the foundations of research necessary to understand and evaluate existing public health research as well as how to plan and conduct research with minimal assistance including proposal development, grant writing and budgets. PR: 6000 and 6050.	3
HPM	PHC	6760	Health Program Evaluation	The course develops the skills needed to evaluate health and medical care programs. Emphasis is given to research design, determination of qualitative and quantitative criteria, measurement techniques, and interpretation of findings. PR: PHC 6430, 6180, and 6151, or CI.	3

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PHC	PHC	6907	Independent Study: Public Health	Independent study determined by the student's needs and interests. (S/U) PR: CI.	1-4
PHC	PHC	6930	Public Health Seminar	Interaction of faculty, students and select health professionals in relation to public health issues and research. (S/U) PR: Graduate Standing.	1-3
CFH	PHC	6931	Advanced Seminar in Social & Behavioral Sciences Applied to Health	The course overviews the use of social science theory and methods in health problem analysis and program design. For students with appropriate background. PR: CI.	3
PHC	PHC	6934	Selected Topics in Public Health	The content of this course will be governed by student demand and instructor interest. PR: CI.	1-6
PHC	PHC	6945	Supervised Field Experience	Internship in a public health agency or setting. Application of administrative, program, and/or research models now employed in government and private public health organizations. (S/U) PR:CI.	1-12
PHC	PHC	6971	Thesis: Master of Science in Public Health	Research-oriented study for students seeking the Master of Science degree in Public Health. Repeatable PR: CI.	2-19
PHC	PHC	6977	Special Project: MPH	In-depth study of a selected issue in public health. A topic will be selected according to student's needs and interests. (S/U) PR:CI.	3
PHC	PHC	7001	Practical Issues in Epidemiology	Provides an understanding of the everyday tasks faced by an epidemiologist working the the field from hypotehsis generation to writing up of study findings. Required for PhD students; elective for all other graduate students. PR: PHC 6000.	3
EPB	PHC	7008	Neuroepidemiology	This course provides an overview of the epidemiology of selected neurologic diseases. Paricular emphasis is placed on how methodologic problems apply to the epidemiologic study of a variety of neurologic diseases. PR: PHC 6000, PHC 6050	3
EPB	PHC	7015	Epidemiology Study Design and Protocol Development	The course will provide the student with the opportunity to acquire knowledge and skill in formulating a research problem and developing an appropriate epidemiologic study design. A detailed proposal will be developed, presented, and defended. PR: PHC 6000, PHC 6700, PHC 6051, and CI.	3
EPB	PHC	7018	Environmental Epidemiology	This course will consider the relationship between environmental (non-occupational) factors and the occurrence of disease in human populations, including the chemical and physical extrinsic agents to which humans are exposed. PR: PHC 6000 and CI.	3
EPB	PHC	7019	Occupational Epidemiology	Examines the existing epidemiologic data pertaining to the health effects of specific occupational exposures and the epidemiologic methods involved in the conduct of occupational studies. PR: PHC 6000 and CI.	3

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EPB	PHC	7028	Advanced Clinical Trials	The many facets of clinical trials will be covered including study design, ethics, monitoring, and analysis. Real datasets will be used to provide the student with the opportunity to learn data base management and data analysis using SAS. PR: PHC 6000, PHC 6050, PHC 6700, PHC 6701, PHC 6017.	4
EPB	PHC	7053	Generalized Linear Models	The course provides an in-depth coverage of the theory of generalized linear models with application in public health. Topics covered are numerical algorithms, exponential family, model checking, logistic regression, log linear models, estimating equations. PR: Biostatistical Inference II (PHC 7058).	3
EPB	PHC	7054	Advanced Biostatistical Methods	This course introduces students to both theoretical and practical problems in specialized advanced topics in Biostatistics. Alternate topics include Applied Multivariate Statistics, Nonparametric Methods, Spatial Statistics in Health Sciences and Advanced Sampling Design. Students can take this course repeatedly. PR: CI.	3
EPB	PHC	7055	Biostatistical Computing	This course provides a broad foundation in modern biostatistical computing methods relevant to public health research. It prepares PhD students with advanced computing skills for dissertation research. Topics include algorithms	3
EPB	PHC	7056	Longitudinal Data Analysis	This course is a discussion of recent development of methods for analysis of longitudinal data. Covered topics include generalized estimating equations, mixed effects models, hierarchical models. PR: Biostatistical Inference II (PHC 7058), Generalized Linear Models (PHC 7053), or CI.	3
EPB	PHC	7058	Biostatistical Inference II	This course covers the foundation of biostatistical inference required for biostatic program. Topics include likelihood theory, modern Bayes theory, estimation and testing, non-parametric theory. PR: Probability (STA 6447) or CI.	3
EPB	PHC	7059	Advanced Survival Data Analysis	This course addresses advanced topics of survival data analysis. Topics include recurrence multiple events and failty models. Counting process based theory is discussed. Real data sets are used for illustration. PR: Probability (STA 6447) and Biostatistical Inference II (PHC 7058) or CI.	3
CFH	PHC	7152	Policy and Practice in Community and Family Health	This course is designed to prepare students to critically analyze issues and develop skills pertinent to effective policy development and practice in community and family health public health programs.	3

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CFH	PHC	7317	Risk Communication in Public Health	Communicating with the public about environmental and occupational health risks that affect individuals, families, and communities is a central task facing public health professionals. Analyzes the structure, function, content and process of risk communication in order to maximize effective, responsible and ethical public interaction and to describe the issues related to the legal implementation of risk communication in public health organizations.	2
EOH	PHC	7368	Aerosol Technology in Industrial Hygiene	An advanced study of the properties, behavior, and measurement of aerosols, including the physical and chemical principles affecting behavior. Various applications of aerosol technology in industrial hygiene will be investigated, including inhalation and deposition of aerosols, aerosol sampling and control. PR: Admission to PhD program or CI.	3
CFH	PHC	7405	Theoretical Foundations Community and Family Health	This course is designed for beginning public health doctoral students specializing in Community and Family Health to encourage scholarly discourse of pertinent concepts, theories, and paradigms, and the critical analysis of related scholarly works	3
CFH	PHC	7417	Family Systems and Public Health	Intended for doctoral students in Community & Family Health interested in social and behavioral theories of family and health behavior. Covers an array of theoretical perspectives related to the process, structure and function of	3
EPB	PHC	7703	Advanced Research Methods in Epidemiology	Course emphasizes summary and statistical analysis of data. Methods include life tables, logistic and proportional hazards regression, assessment of confounding, interaction, and bias. Includes a two-hour weekly computer lab. PR: PHC 6700.	3
CFH	PHC	7708	Applied Research Methods in Community and Family Health	A detailed study of philosophical questions and applied techniques of research in community and family health. A project oriented course to prepare students to conduct their own independent research. PR: PHC 6050, PHC 6700, PHC 6708 or CI.	3
CFH	PHC	7709	Case Studies in the Quantitative Analysis of Public Health Data	Focuses on training students in public health applications of multivariate analytic techniques including factor analysis, regression analysis, multivariate analysis of variance, event history analysis, multi-level modeling, and structural equation modeling. PR: PHC 6051 or equivalent.	3
PHC	PHC	7908	Specialized Study in Public Health	Demonstration of an in-depth study in a specialized public health area. This study may be used to address areas where a student needs to demonstrate a higher level of competency. PR: CI. Advanced graduate standing.	1-9
PHC	PHC	7910	Directed Research	Advanced research design and application. (S/U) Credit hours variable. PR: Graduate Standing.	1-19

